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BIBLIOGRAPHY OF
MASS SPECTROSCOPY LITERATURE
FOR 1972
COMPILED BY A COMPUTER METHOD
Volume I

Bibliography and Author Index

J. Capellen, H. J. Svec,

C. R. Sage and R. Sun
Compilers

AMES LABORATORY, USERDA
IOWA STATE UNIVERSITY
AMES, IOWA

Date Transmitted: August 1975

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COMPUTER METHOD

Vol. I, Bibliography and Author Index

J. CAPELLEN, H. J. SVEC, C. R. SAGE AND R. SUN

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Ames Laboratory-ERDA

Iowa State University

Ames, Iowa 50010

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BIBLIOGRAPHY OF MASS SPECTROSCOPY LITERATURE
FOR 1972 COMPILED BY A
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by

J. Capellen, H. J. Svec, C. R. Sage
and R. Sun

ABSTRACT

This report covers the year 1972, and lists approximately 10,000 articles of interest to mass spectroscopists. This two-volume report consists of three sections. Vol.I contains a Bibliography section and an Author Index section. Vol.II contains a Key Word Out of Context Index (KWOC Index) section. The Bibliography section lists the authors, the title and the publication data for each article. The Author Index lists the authors' names and the reference numbers of their articles. The KWOC Index lists the key words, the reference numbers of the articles in which the key word appears and the first 100 characters of the title.

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INTRODUCTION

The literature covered in this report is for the year 1972, or earlier, as assembled during the year from three sources which are discussed in detail later. There are approximately 10,000 articles of interest to mass spectroscopists in this report. They were checked for previous citation in earlier bibliographies¹⁻⁹ in the series.*

The Selective Dissemination of Information (SDI)¹⁰ computer system was employed to survey the titles of approximately 300,000 scientific articles. These articles were on computer tapes supplied by Pandex of CCM Information Sciences.¹¹ Pandex tapes list the articles from approximately 2300 journals. The tapes also include about 6,000 book titles and 35,000 government technical reports each year. These tapes are computer-scanned for the articles of interest using a profile of keywords and authors' names. The procedure was explained in a paper presented at the 14th Annual Conference on Mass Spectrometry and Allied Topics at Dallas, Texas in May 1966. A more extensive explanation is given in an IS report¹² by J. Jordan.

Articles received from the Scientific Documentation Centre, Ltd. (SDC),¹³ as part of its Current Awareness Service on "Mass Spectrometry", were included in this report if they were not previously located by the SDI system. Journals and other abstracting services are manually-scanned by SDC and articles of interest are printed on cards for mailing to the subscribing

*Available from National Technical Information Service (NTIS), U.S. Dept. of Commerce, Springfield, VA 22151.

members. The SDC articles included in this report were on cards received from SDC during the year 1972. We wish to thank Dr. P. S. Davison, Director, Scientific Documentation Centre, Ltd., for his permission to use this source of information.

"Nuclear Science Abstracts", published by the United States Atomic Energy Commission's Division of Technical Information, are scanned manually for articles of interest. The articles of interest not found in the previous two sources were included in this report.

The articles located from the three sources were separated into 94 categories on the basis of the information contained in their titles or in their abstracts, when available. SDC also includes coded information about the contents of the articles on their cards and this is sometimes used to determine the category into which an article is placed. This system of classifying articles is not wholly unambiguous but it does result in a general breakdown of the list. In order to make locating particular articles of interest possible, we rely upon the key word index to circumvent unavoidable misclassification. To locate articles by the same author in different categories we rely upon the author index.

This report is composed of three sections. The first section is a Bibliography Listing, the second is an alphabetical Author Index and the third is a Key Word Out of Context Index (KWOC Index). An explanation of each section follows and an example of each is shown at the end of the introduction.

Bibliography

The Bibliography Listing is divided into categories with each category assigned a specific numerical designation. The categories and their numerical designations are listed in Table I. The articles within each category are sequenced by number according to the alphabetical order of their first author.

Each entry in the Bibliography Listing contains four parts. The first gives the reference number of the article and includes the category designation, the year, and the sequence number of the article. The second part of the listing gives the authors who are associated with the article. The third part gives the title of the article as it appeared on the source card and the fourth part gives the bibliographical citation for the article.

Author Index

The Author Index lists the authors cited in the Bibliography. To the right of each author's name is the reference number or numbers of the article(s) with which he is associated.

The surname of the authors on the Pandex tapes are shortened to eight characters, therefore surnames may not be complete. Pandex does not include apostrophes in names but does include hyphens. Pandex also does not include any more than two initials of an author.

The number of authors listed by the various sources varies and thus controls the authors listed for each article. The cards received from SDC usually contain only one or two author's names. In some cases, the author listed by SDC is not the first one found on the publication. The Pandex tapes list only the

first three authors associated with an article. No attempt is made to refer to the articles from these two sources for the express purpose of checking for other authors but if some question arises about the spelling or wording of the title and the publication is checked, additional authors may be added to the citations. The articles found in "Nuclear Science Abstracts" usually contain all the authors and are used with all possible entries to insure as complete as possible author credit.

KWOC Index

The KWOC Index is an alphabetical listing of key words except for those purposely put on a stop list. Associated with each key word are two elements of information. To the right of the key word appear the first 100 characters of the title of the article which contains the key word. To the left of the key word appears the reference number of the article, providing the key for access in the Bibliography. An example indicating how to use each section and how the three sections are connected is given in Fig. 1.

BIBLIOGRAPHY

- 570 72 524 ZEMAN A SCHARMANN H
MASSENSPEKTROMETRIE VON LIPIDEN (EINE ZUSAMMENFASSUNG). 1.
FETTE-SEIFEN-ANSTRICH. 74. 509. 1972
- 570 72 525 ZINKEL DF SPALDING BP
STROBIC ACID. A NEW RESIN ACID FROM PINUS STROBUS
TETRAHEDRON LETS. P2459. 1971
- 575 72 001 BLOCK JH ZEI MS
DESORPTION OF CARBONIUM IONS FROM ZEOLITE SURFACES: COMPARISON OF REACTIVE SURFACE IONIZATION WITH
FIELD IONIZATION
SURFACE SCI., 27. NO. 3. XXX. 1971

AUTHOR INDEX

ZIMMERMAN D	300 72 293	ZORB WI	290 72 324	ZVARA I	188 72 171
ZIMMERMAN D*	305 72 092	ZORKIN LM	300 72 308	ZVARA I (2)	405 72 119
ZIMMERMAN FE	325 72 325	ZORN JC	225 72 106	ZVARA I (3)	405 72 034
	517 72 217	ZOSIMCV VV	560 72 001	ZVAROVA TS	405 72 035
ZIMMERMANN R	360 72 110	ZRODNKO VS	345 72 004	ZVEZDIN VI	290 72 325
ZIMMERMANN M	310 72 055	ZS R (4)	570 72 396	ZWAHLEN W (2)	320 72 021
ZIMCHENKO GN	370 72 166	ZSIGMOND G	592 72 013	ZWALLY HJ	585 72 314
ZINCHENKO NS	370 72 166	ZUBENKO YV	100 72 065		200 72 107
ZINGARO RA	188 72 170	ZUBER M	570 72 484	ZWANENBURG B	202 72 180
	325 72 326	ZUBKOV IP	360 72 111	ZWANGCBANI ED	585 72 482
ZINGERMA YP	100 72 113	ZUCKERMAN B	375 72 020	ZWEIG G	335 72 091
ZINKEL DF	570 72 525	ZUFFI L	210 72 021		115 72 093
ZIONI J	405 72 117	ZUK W	370 72 167	ZWOLINSKI BJ	290 72 268
ZIPP EC	225 72 128	ZUPAN M	585 72 878	ZYLBER N	480 72 208
	245 72 004	ZUZAK W	345 72 009		450 72 101

KEYWORD INDEX

355 72 C22	STRIPPING	STRIPPING REACTIONS OF GASEOUS IONS IN MASS SPECTROMETER
405 72 C84	STRIPPING	STRIPPING ANALYSIS OF THE RB(17)D.PIR(88) REACTION
490 72 C43	STRIPPING	1. CHARACTERISTICS OF OXINE ETHERS UPON ELECTRON IMPACT. 2. STRIPPING REACTIONS OF GASEOUS IONS IN
505 72 C48	STRIPPING	STRIPPING OF ELECTRONS FROM NEGATIVE IONS IN A CONSTANT MAGNETIC FIELD
188 72 C46	STROBANE	1. TOXICITY OF CHROMIUM. 2. TOXICITY OF HCL TO PLANTS AND MAMMALS. 3. TOXICITY OF STROBANE. 4.
570 72 525	STROBIC	STROBIC ACID. A NEW RESIN ACID FROM PINUS STROBUS
570 72 525	STROBUS	STROBIC ACID. A NEW RESIN ACID FROM PINUS STROBUS
300 72 C89	STRONTIUM	1. SCANDIUM IN EFFLUENTS OF EAST AFRICAN RIFT ZONES. 2. CALCIUM, STRONTIUM, BARIUM, AND MANGANESE IN
300 72 253	STRONTIUM	PARTITIONING OF STRONTIUM BETWEEN CLINDPYROKENE AND LIQUID AT HIGH PRESSURES: PRELIMINARY
325 72 188	STRONTIUM	1. REITRAGE ZUP CHEMIF DES HYDRAZINS UND SEINER DERIVATE. XXII. STICKSTOFF-KOMPLEXE VON BARIUM.
350 72 C58	STRONTIUM	ABSOLUTE VALUES OF THE ELECTRON IMPACT IONIZATION CROSS SECTIONS FOR MAGNESIUM, CALCIUM, STRONTIUM,
385 72 001	STRONTIUM	BARIUM AND STRONTIUM CONCENTRATIONS IN PACIFIC AND MEDITERRANEAN SEA WATER PROFILES BY DIRECT
400 72 013	STRONTIUM	STRONTIUM ISOTOPE AND ALKALI ELEMENT GEOCHEMISTRY OF SELECTED SEDIMENTS FROM NORTHEAST PACIFIC OCEAN
400 72 C15	STRONTIUM	GEOCHEMIE ISOTOPIQUE. DISTINCTION. PAR LA COMPOSITION ISOTOPIQUE DU STRONTIUM CONTENU DANS LES
400 72 C30	STRONTIUM	ISOTOPIC COMPOSITION OF STRONTIUM IN THREE BASALT-ANDESITE CENTERS ALONG LESSER ANTILLES ARC
400 72 037	STRONTIUM	1. ISOTOPIC COMPOSITION AND CONCENTRATION OF STRONTIUM OF BRINE FROM TUBORG LAKE, ELLESMERE ISLAND.
400 72 C49	STRONTIUM	STRONTIUM AND LEAD ISOTOPES OF VOLCANIC ROCKS IN JAPAN
400 72 C70	STRONTIUM	VARIATIONS IN ISOTOPIC ABUNDANCES OF STRONTIUM, CALCIUM, AND ARGON AND RELATED TOPICS
400 72 111	STRONTIUM	KRATKII OZOR PRIMENENIYA IZOTOPOV STRONTSIYA I SVINTSA V GEOLOGII (SHORT SURVEY OF APPLICATIONS OF
400 72 111	STRONTIUM	KRATKII OZOR PRIMENENIYA IZOTOPOV STRONTSIYA I SVINTSA V GEOLOGII (SHORT SURVEY OF APPLICATIONS OF
570 72 203	STRUCTURE	STUDIES IN MYCOLOGICAL CHEMISTRY. 29. TOTAL SYNTHESIS OF (10R)-10-METHYLAVERSIN ((+)
480 72 021	STRUCTURALLY	STRUCTURALLY SIGNIFICANT FRAGMENTATION OF URINARY GLUCURONIDES
585 72 647	STRUCTURALLY	SYNTHESIS OF NITROPHENANTHRENE CARBOXYLIC ACIDS STRUCTURALLY RELATED TO NATURAL ARISTOLOCHIA ACIDS
100 72 087	STRUCTURE	LOW ENERGY ELECTRON DIFFRACTION AND AUGER ELECTRON SPECTROSCOPY STUDIES OF THE STRUCTURE OF ADSORBED
105 72 C11	STRUCTURE	ISOLATION AND PRIMARY STRUCTURE OF A PEPTIDE CONTAINING OXIDATION-REDUCTION ACTIVE CYSTINE OF
105 72 C32	STRUCTURE	STEREOCHEMISTRY OF NUCIFIC ACIDS AND THEIR CONSTITUENTS. 26. CRYSTAL AND MOLECULAR STRUCTURE OF A
105 72 C66	STRUCTURE	MASS SPECTROMETRY OF AMINO ACID SEQUENCE IN PEPTIDES. THE ALAMETHICIN STRUCTURE
105 72 C75	STRUCTURE	ISOLATION AND PRIMARY STRUCTURE OF A PEPTIDE CONTAINING OXIDATION-REDUCTION ACTIVE CYSTINE OF
105 72 C84	STRUCTURE	ON THE STRUCTURE OF HUMAN SERUM. LOW AND HIGH DENSITY LIPOPROTEINS
105 72 C98	STRUCTURE	BIOPHYSICAL INVESTIGATION OF BIOMOLECULAR STRUCTURE AND INTERACTION. 1. CONFORMATION OF
150 72 008	STRUCTURE	AUTOIONIZATION STRUCTURE IN IONIZATION OF BA(+) BY ELECTRON IMPACT
165 72 056	STRUCTURE	FORMATION OF, BY TERMOLEULAR REACTIONS, AND BOND DISSOCIATION ENERGY, STRUCTURE, AND BOND LENGTH
165 72 C58	STRUCTURE	CALCULATION OF ELECTRONIC STRUCTURE OF SMALL MOLECULES WITH SATURATED BONDS. 1. SEMIEMPIRICAL
180 72 001	STRUCTURE	NOVEL MIXED PLATINUM-IRON CLUSTER COMPOUND. STRUCTURE OF

Figure 1

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REFERENCES

1. J. Capellen, H. J. Svec and C. R. Sage, "Bibliography of Mass Spectroscopy Literature, Compiled by Computer Method". IS-1335, March 1966, Ames Laboratory of the U.S. Atomic Energy Commission.
2. J. Capellen, H. J. Svec and C. R. Sage, "Bibliography of 1966 Mass Spectroscopy Literature, Compiled by a Computer Method". IS-1611 and IS-1611 (Add.), July 1967, Ames Laboratory of the U.S. Atomic Energy Commission.
3. J. Capellen, H. J. Svec, J. R. Jordan and W. J. Watkins, "Bibliography of Mass Spectroscopy Literature for the First Half of 1967 Compiled by a Computer Method". IS-1829, April 1968, Ames Laboratory of the U.S. Atomic Energy Commission.
4. J. Capellen, H. J. Svec, J. R. Jordan and W. J. Watkins, "Bibliography of Mass Spectroscopy Literature for the Last Half of 1967 Compiled by a Computer Method". IS-2058, June 1970, Ames Laboratory of the U.S. Atomic Energy Commission.

5. J. Capellen, H. J. Svec, J. R. Jordan and R. Sun, "Bibliography of Mass Spectroscopy Literature for the First Half of 1968, Compiled by a Computer Method". IS-2059, August 1970, Ames Laboratory of the U.S. Atomic Energy Commission.
6. J. Capellen, H. J. Svec, J. R. Jordan and R. Sun, "Bibliography of Mass Spectroscopy Literature for the Last Half of 1968, Compiled by a Computer Method". IS-2327, November 1970, Ames Laboratory of the U.S. Atomic Energy Commission.
7. J. Capellen, H. J. Svec, J. R. Jordan and R. Sun, "Bibliography of Mass Spectroscopy Literature for 1969 Compiled by a Computer Method". IS-2356, July 1971, Ames Laboratory of the U.S. Atomic Energy Commission.
8. J. Capellen, H. J. Svec, J. R. Jordan and R. Sun, "Bibliography of Mass Spectroscopy Literature for 1970 Compiled by a Computer Method". IS-2739, January 1972, Ames Laboratory of the U.S. Atomic Energy Commission.
9. J. Capellen, H. J. Svec, J. R. Jordan and R. Sun, "Bibliography of Mass Spectroscopy Literature for 1971 Compiled by a Computer Method". IS-3032, February 1973, Ames Laboratory of the U.S. Atomic Energy Commission.
10. C. R. Sage, R. R. Anderson and D. R. Fitzwater, Amer. Document., 16, 185 (1965).
11. PANDEX of CCM Information Sciences, Inc., New York, Subsidiary of Crowel Collier and MacMillen, Inc., New York.
12. J. R. Jordan, "KWOC Index - COBOL Programs to Index Bibliographic Information". IS-2134, April 1970, Ames Laboratory, Iowa State University, Ames, Iowa.

13. Scientific Documentation Centre, Ltd., Halbeath, Dunfermline,
United Kingdom.

TABLE I

CLASSIFICATION OF CATEGORIES

100	Adsorbtion, Adsorption, Desorption	260	Electron Multipliers
105	Amino Acids, Peptides	265	Energy Levels
110	Amplifiers, Electronics- General	270	Excited Ions, Atoms, Molecules
115	Analyses-General	275	Field Emission Mass Spectrometry
120	Analyses-Gas	285	Free Radicals
135	Analyses-Trace	290	Gas Chromatography Liquid Chromatography
140	Appearance Potentials, Ionization Potentials	295	Gases in Metal
150	Autoionization	300	Geochemistry
165	Bond Energies, Bonding	305	Geochronology
175	Carbides, Silicides, Etc.	310	Halides
180	Carbonyls-Metal	315	High Resolution Mass Spectrometry
185	Charge Transfer, Charge Exchange	320	High Vacuum
187	Chemistry-Organo- metallic	325	Hydrides
188	Chemistry-General	335	Ion Bombardment
200	Cosmology, Meteorites	345	Ionization
202	Crossed Beams	347	Ionization-chemi
210	Cross Sections- Neutrons	350	Ionization - Electrons
220	Data Readout, Data Manipulation	355	Ion-Molecule Reactions
225	Deuterium	360	Ion Optics, Electron Optics
230	Deuterium Oxide	365	Ion Pumps
235	Diffusion - Gases	370	Ion Sources
240	Diffusion - Solid	375	Isotope Abundances
245	Dissociation, Decomposition	380	Isotope Analyses
250	Electron Affinities	385	Isotope Dilution
255	Electron Emission	390	Isotope Effects
		395	Isotope Exchange
		400	Isotope Geology

405	Isotope Masses	540	Radiolysis
410	Isotope Separation	545	Rearrangements
415	Isotope Tracers	550	Sample Preparation and Handling
416	Isotope Tracers, Radioactive	555	Solid Solubilities
420	Kinetic Energy of Ions, Molecules	560	Spark Mechanism
430	Lasers	565	Spark Source Mass Spectrometry
435	Leak Detection	570	Structure-Molecular
440	Magnets and Magnet Controls	575	Surface Ionization
445	Mass Spectra	580	Surface Reactions and Properties
450	Mass Spectral Theory	582	Syntheses-Inorganic
455	Mass Spectrographs	585	Syntheses and Reactions
460	Mass Spectrometers	587	Syntheses-Bio
465	Mass Spectrometry	590	Thermochemistry
470	Mass Spectrometry - Design	592	Time-of-Flight Mass Spectrometry
475	Mass Spectrometry - High Temperature	595	Vapor Pressures
480	Mass Spectrometry - Meetings		
485	Mass Spectrometry - Sample System		
487	Mass Spectrometry - Solids		
490	Mass Spectrometry Studies		
500	Metastable Transitions		
505	Negative Ions		
517	Photochemistry		
518	Photoelectrons		
520	Photographic Plates		
525	Photoionization		
530	Positive Ions		
535	Pressure-Measurements, Residual, Partial		

- 100 72 001 ADAMS DL GERMER LH
ADSORPTION OF NITROGEN ON W(100)
SURFACE SCI., 26, 109, 1971
- 100 72 002 ADAMS DL GERMER LH
ADSORPTION ON SINGLE CRYSTAL PLANES OF TUNGSTEN. 1. NITROGEN
SURFACE SCI., 27, 21, 1971
- 100 72 003 ADAMS RO MUSGRAVE LE
MEASUREMENT OF STICKING PROBABILITIES OF GASES ADSORBED ON METAL FILMS
J. VAC. SCI. TECHNOL., 9, 539, 1972
- 100 72 004 AGEEV VN IONOV NI
REPLY TO J.W. MAY'S COMMENTS (ON SUCCESSIVE ADSORPTION OF NITROGEN, CARBON MONOXIDE, AND OXYGEN ON
TUNGSTEN)
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, NO. 5, XXX, 1971
- 100 72 005 AGEEV VN IONOV NI
STUDY OF THE INTERACTION KINETICS BETWEEN OXYGEN AND TANTALUM USING THE FLASH METHOD
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 1305, 1971. TRANSLATED FROM FIZ. TVERD. TELA, 13, 1557,
1971
- 100 72 006 AGEEV VN KUTSENKO EN
INVESTIGATION OF THE OXYGEN-TUNGSTEN INTERACTION BY ION DESORPTION PRODUCED BY SLOW ELECTRONS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 841, 1971. TRANSLATED FROM ZH. TFKH. FIZ., 41, 1066, 1971
- 100 72 007 ALLEAU T BACAL M
INFLUENCE OF OXYGEN ADSORPTION AND OXYGEN-CESIUM COADSORPTION ON TUNGSTEN(100) WORK FUNCTION
PP 434-40 OF IEEE CONFERENCE RECORD OF 1970 THERMIONIC CONVERSION SPECIALIST CONFERENCE, INST. OF
ELECTRICAL AND ELECTRONICS ENGINEERS, INC., NEW YORK, 1970. FROM THERMIONIC CONVERSION SPECIALIST
CONFERENCE, MIAMI BEACH, FLA., OCT. 26, 1970. CONF-701039
- 100 72 008 BAILITIS E
GAIN IN OXYGEN ADSORPTION ON POLYCRYSTALLINE SILVER DURING ELECTRON IRRADIATION AT LOW TEMPERATURE
Z. PHYS. CHEM. (FRANKFURT), 73, 102, 1970 IN GERMAN
- 100 72 009 BANSAL RC VASTOLA FJ WALKER PL
STUDIES ON ULTRACLEAN CARBON SURFACES. 3. KINETICS OF CHEMISORPTION OF HYDROGEN ON GRAPHON
CARBON, 9, 185, 1971
- 100 72 010 BANSAL RC VASTOLA FJ WALKER PL
STUDIES ON ULTRACLEAN CARBON SURFACES. 5. KINETICS OF CHEMISORPTION OF OXYGEN ON DIAMOND
CARBON, 13, 443, 1972. NYO-1710-103. PENNSYLVANIA STATE UNIV., UNIVERSITY PARK, DEPT. OF MATERIALS
SCIENCE, 1970. 15P
- 100 72 011 EAXTER WJ
WORK FUNCTION OF TANTALUM CARBIDE AND THE EFFECTS OF ADSORPTION AND SPUTTERING OF CESIUM
J. APPL. PHYS., 42, 2682, 1971
- 100 72 012 BECKERT D
PROTON SPIN RELAXATION OF ADSORBED METHANE. 2. ISOTOPE EFFECT
Z. PHYS. CHEM. (LEIPZIG), 246, 155, 1971 IN GERMAN
- 100 72 013 HEDAIR SM SMITH HP
LEED STUDIES OF OXYGEN ADSORPTION ON (111) AND (110) SURFACES OF ALUMINUM
J. APPL. PHYS., 42, 3616, 1971
- 100 72 014 BEITEL GA
ADSORPTION OF CARBON MONOXIDE AND HYDROGEN ON GRAPHITE
J. VAC. SCI. TECHNOL., 9, 370, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS. OCT. 11,
1971
- 100 72 015 BORESKOV EG KUCHAEV VL PENKOV BE
ON ISOTOPIC EXCHANGE BETWEEN CHEMISORBED NITROGEN AND AMMONIA ON AN IRON CATALYST FOR AMMONIA
SYNTHESIS
KINET. KATAL., 13, 358, 1972 IN RUSSIAN
- 100 72 016 BORESKOV GK SAVCHENK VI
EXCHANGE OF HYDROGEN WITH DEUTERIUM, ADSORBED ON NICKEL
KINET. KATAL., 13, 109, 1972 IN RUSSIAN
- 100 72 017 BOUCHER EA EVERETT OH
DETERMINATION OF HENRY'S LAW CONSTANTS, ENTHALPIES AND POTENTIAL ENERGIES OF ADSORPTION, AND SURFACE
AREAS BY GAS-SOLID CHROMATOGRAPHY. INERT GASES, NITROGEN, AND METHANE ON ACTIVE CARBON
TRANS. FARADAY SOC., 67, NO. 9, XXX, 1971
- 100 72 018 BRADSHAW AM ENGELHAR A MENZEL D
ADSORPTION ON SILVER SINGLE CRYSTALS. 1. OXYGEN ON SILVER(110)
BER. BUNSENES. PHYS. CHEM., P500, 1972
- 100 72 019 COLLINS RA
SILICON ADSORPTION ON TUNGSTEN FIELD EMITTERS
SURFACE SCI., 26, 624, 1971
- 100 72 020 COMSA G GROTH W
INFLUENCE OF GAS ADSORPTION ON SURFACE RECOMBINATION OF NITROGEN ATOMS ON STAINLESS STEEL
REV. ROUM. CHIM., 17, 77, 1972
- 100 72 021 CYROT-LACKMANN F DUCASTELLE F
BINDING ENERGIES OF TRANSITION METAL ATOMS ADSORBED ON A TRANSITION METAL
PHYS. REV., 48, 2406, 1971
- 100 72 022 DALMAI-IMELIK G BERTOLINI JC
LEED AND MASS SPECTROMETRY STUDIES OF BENZENE AND CYCLOHEXANE ADSORPTION ON NICKEL SINGLE CRYSTAL
FACES
J. VAC. SCI. TECHNOL., 9, 677, 1972
- 100 72 023 DAVIES ALM CARTER G
GAS RELEASE STUDIES OF SILICON IMPLANTED WITH LOW ENERGY HE(+) AND KR(+) IONS
RADIAT. EFF., 10, 227, 1971

- 100 72 024 DELAUNOIS Y FRENNET A LIENARD G
UTILIZATION OF THE KAGENER METHOD FOR THE MEASUREMENT OF THE AREAS OF METALLIC FILMS BY ISOTHERMIC
ADSORPTION OF KR, XE, AND CH₄ (UCRL-TRANS-10612. TRANSLATED FOR UNIV. OF CALIFORNIA; LAWRENCE LIVERMORE LAB., LIVERMORE, FROM J.
CHIM. PHYS., 63, 906, 1966, 23P
- 100 72 025 DONNADIEU A
ACTION OF ADSORBED OR CHEMISORBED GASES UPON THE ABNORMAL PROPERTIES OF CERTAIN METALS IN THIN FILMS
UCRL-TRANS-10566. TRANSLATED FOR UNIV. OF CALIFORNIA. LAWRENCE LIVERMORE LAB., LIVERMORE, FROM THIN
SOLID FILMS, 6, 245, 1970, 18P
- 100 72 026 EDWARDS D PROBST FM
INFLUENCE OF O₂ ADSORPTION ON INTENSITY DISTRIBUTION OF ELECTRONS SCATTERED FROM W(100)
J. CHEM. PHYS., 56, 3184, 1972
- 100 72 027 EHRHARDT JJ VINCENT L CASSUTO A
DETERMINATION DE LA DISTRIBUTION D'ENERGIE DE LIAISON DE GAZ ADSORBES SUR DES FILMS METALLIQUES.
APPLICATION AU SYSTEME PT-O₂
SURFACE SCI., 26, 490, 1971
- 100 72 028 ERTL G KUEPPERS D
INTERACTION OF HYDROGEN WITH A NICKEL(110) SURFACE
BER. BUNSENSES. PHYS. CHEM., 75, 1017, 1971 IN GERMAN
- 100 72 029 FANALE FP CANNON WA
ORIGIN OF PLANETARY PRIMORDIAL RARE GAS: THE POSSIBLE ROLE OF ADSORPTION
GEOCHIM. COSMOCHEM. ACTA, 36, 319, 1972
- 100 72 030 FEDORCHENKO VI AVERIN VV SAMARIN AM
ACTION OF NITROGEN ON NICKEL ALLOYS
PP 54-8 OF FIZIKO-KHIMICHESKIE OSNOVY PROIZVODSTVO STALI. CHERNYSHEV, A.M. (ED.). IZDATEL'STVO
NAUKA, MOSCOW, 1971. IN RUSSIAN. FROM SYMPOSIUM ON METALLURGY AND METALLOGRAPHY, MOSCOW, USSR, MAY
14, 1968
- 100 72 031 FEHRS DL STICKNEY RE
CONTACT POTENTIAL MEASUREMENTS OF THE ADSORPTION OF ALKALI METALS ON TA(110) AND W(100) CRYSTALS
SURFACE SCI., 24, 309, 1971
- 100 72 032 FLAIM TA OWNBY PD
ADSORBATE INDUCED WORK FUNCTION CHANGES
SURFACE SCI., 32, 519, 1972, 40 REFERENCES
- 100 72 033 FORD RR LICHTMAN D
ION DESORPTION CHARACTERISTICS INDUCED BY ELECTRON INTERACTION WITH CARBON MONOXIDE ADSORBED ON
RHENIUM
SURFACE SCI., 26, 365, 1971
- 100 72 034 FRENNET A LIENARD G
CHEMISORPTION OF METHANE ON METALLIC FILMS: THE DETERMINATION OF THE AREA COVERED PER CHEMISORBED
MOLECULE AND THE STICKING COEFFICIENT
UCRL-TRANS-10639. TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM J.
CHIM. PHYS., 67, 598, 1970, 26P
- 100 72 035 GORODETSKII DA MEL'NIK YP
ADSORPTION OF OXYGEN ON THE BOUNDARIES OF TUNGSTEN(100)
IZV. AKAD. NAUK SSSR, SER. FIZ., 35, 1064, 1971 IN RUSSIAN
- 100 72 036 GORODETSKII DA KNYSH AN
INTERACTION OF OXYGEN WITH THE (0001) FACE OF RHENIUM
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 2119, 1972. TRANSLATED FROM FIZ. TVERD. TELA, 13, 2521,
1971
- 100 72 037 GOTO T LANGER D
INDUCED ABSORPTION IN THE PRESENCE OF HIGH ELECTRONIC EXCITATION
AD-738 603. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 100 72 038 GRIMLEY TB
THEORY OF THE SURFACE BOND IN ADSORPTION
BER. BUNSENSES. PHYS. CHEM., 75, 1003, 1971
- 100 72 039 GRODSHTEIN AE KIRSANOV ND
EVOLUTION OF GASES FROM MOLYBDENUM
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 44, 1511, 1970
- 100 72 040 GRUETTER A SHORROCK JC
ADSORPTION OF XENON, KRYPTON, AND METHANE ON ACTIVE CHARCOAL AT LOW PRESSURES AND TEMPERATURES
PP 149-55 OF THIRD CONFERENCE ON INDUSTRIAL CARBONS AND GRAPHITE. SOCIETY OF CHEMICAL INDUSTRY,
LONDON, 1971. FROM CONFERENCE HELD IN LONDON, ENGLAND, APRIL 14, 1970. CONF-700407
- 100 72 041 HOFFMANN H FUNKE G
MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN ZUR SORPTION VON GASEN AN MECHANISCH BEARBEITETEN
SILBER-OBERFLACHEN
Z. PHYS. CHEM. (LEIPZIG), 247, 233, 1971
- 100 72 042 MORGAN AM DALINS I
HYDROGEN AND NITROGEN DESORPTION PHENOMENA ASSOCIATED WITH A STAINLESS STEEL-304 LOW ENERGY ELECTRON
DIFFRACTION (LEED) AND MOLECULAR BEAM ASSEMBLY
J. VAC. SCI. TECHNOL., 9, 1218, 1972
- 100 72 043 ILLES V
INVESTIGATIONS OF THE CHARACTERISTICS OF DYNAMIC ADSORPTION
UCRL-TRANS-10547. TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE RADIATION LAB., LIVERMORE, FROM MAGY.
ASVANYOLAJ FOLDGAZ KISERL. INTEZ. KIADV., NO. 233, 22, 1961, 22P
- 100 72 044 JOHNSON L DRESSER MJ DONALDSON EE
ADSORPTION AND ABSORPTION OF HYDROGEN BY NIOBIUM
RL0-2221-T-7-3. WASHINGTON STATE UNIV., PULLMAN, 1970, 13P. CONF-711005-1. FROM INTERNATIONAL
CONFERENCE ON SOLID SURFACES, BOSTON, MASS., OCT. 11, 1971

- 100 72 045 JOHNSON L
HYDROGEN ADSORPTION-ABSORPTION BY NIOBIUM
THESIS. WASHINGTON STATE UNIV., PULLMAN, 1971. 72P. UNIV. MICROFILMS ORDER NO. 72-7653
- 100 72 046 KING DA MADEY TE YATES JT
INTERACTION OF OXYGEN WITH POLYCRYSTALLINE TUNGSTEN. 1. STICKING PROBABILITIES AND DESORPTION
SPECTRA. 2. CORROSIVE OXIDATION
J. CHEM. PHYS., 55, 3236 AND 3247, 1971
- 100 72 047 KING DA WELLS MG
MOLECULAR BEAM INVESTIGATION OF ADSORPTION KINETICS ON BULK METAL TARGETS. NITROGEN ON TUNGSTEN
J. VAC. SCI. TECHNOL., 9, 905, 1972 AND SURFACE SCI., 29, 454, 1972
- 100 72 048 KLEIN R
PREPARATION OF CONTIGUOUS CHEMISORBED ADLAYERS BY SEQUENTIAL DEPOSITION AND SURFACE MIGRATION
SURFACE SCI., 29, 309, 1972
- 100 72 049 KLOPFER A
RECENT STUDIES ON ELECTRONIC DESORPTION FROM METALS USED IN VACUUM SYSTEMS
J. VAC. SCI. TECHNOL., 9, 301, 1972
- 100 72 050 KOHRT C GOMER R
ADSORPTION OF CO ON THE (110) PLANE OF TUNGSTEN
SURFACE SCI., 24, 77, 1971
- 100 72 051 KOKES RJ DENT AL CHANG CC
INFRARED STUDIES OF ISOTOPE EFFECTS FOR HYDROGEN ADSORPTION ON ZINC OXIDE
JACS, 94, 4429, 1972
- 100 72 052 KOLOT VY TATUS VI RYBALKO VF FCGEL YM
INVESTIGATION OF OXYGEN ADSORPTION ON A MOLYBDENUM SURFACE BY MEANS OF SECONDARY ION-ION EMISSION
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1934, 1971, TRANSLATED FROM ZH. TEKH. FIZ., 40, 2469,
1970
- 100 72 053 KUPPERS J
ROLE OF INTERACTION ENERGIES IN ORDERED ADSORPTION ON METAL SINGLE CRYSTAL SURFACES
VACUUM, 21, 393, 1971
- 100 72 054 LAMBERT RM LINNETT JW SCHWARTZ JA
ADSORPTION OF OXYGEN ON MOLYBDENUM(111): EFFECT OF TRACE IMPURITIES
SURFACE SCI., 26, 572, 1971
- 100 72 055 LANG B SOMORJAI GA
STRUCTURES OF GASES CHEMISORBED AT SINGLE CRYSTAL SURFACES: CLASSIFICATION, RULES OF FORMATION
UCRL-20385, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., 1972. 19P
- 100 72 056 LE BAIL H
STUDY OF DESORPTION WITH TEMPERATURE INCREASE UNDER NITROGEN OR HYDROGEN OF OXYGEN CHEMISORBED BY
NATURAL GRAPHITE
CEA-R-4223, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, NOV.
1971. 155P IN FRENCH
- 100 72 057 LECK JH STIMPSON BP
DESORPTION FROM GAS COVERED SURFACES BY ELECTRON IMPACT. REVIEW OF SUBJECT
J. VAC. SCI. TECHNOL., 9, 293, 1972
- 100 72 058 LEWIS RT GOMER R
ADSORPTION STUDIES IN THE FIELD ION MICROSCOPE WITH ARGON IMAGING
SURFACE SCI., 26, 197, 1971
- 100 72 059 LISACHEN AA VILESOV FL
EFFECT OF UV IRRADIATION ON ADSORPTION PROPERTIES AND CATALYTIC ACTIVITY OF MAGNESIUM OXIDE
KINET. KATAL., 13, 749, 1972 IN RUSSIAN
- 100 72 060 LOPEZ-SANCHO JM DE SEGOVIA JL
ADSORPTION KINETICS AND ELECTRON DESORPTION OF O₂ ON POLYCRYSTALLINE TUNGSTEN
SURFACE SCI., 30, 419, 1972
- 100 72 061 LOREVA TI KOCHURIKHIN VE ZEL'VENSKII YO
ISOTOPE EFFECTS IN CO₂ ADSORPTION ON ZEOLITES
KERNENERGIE, 13, 389, 1970 IN RUSSIAN
- 100 72 062 MADEY TE
ADSORPTION AND DISPLACEMENT PROCESSES ON W(111) INVOLVING CH₄, H₂, AND O₂
SURFACE SCI., 29, 571, 1972
- 100 72 063 MAHWERT II
EXPERIMENTS ON THE INFLUENCE OF OXYGEN ADSORPTION UPON THE EMISSION IMAGE OF MOLYBDENUM
PHYS. STATUS SOLIDI, 9A, NO. 1, K5, 1972
- 100 72 064 MARDALEISHVILI RE DANELIYA AP
ADSORPTIVE PROPERTIES OF CHEMICALLY HETERODYNAMIC OXYGEN ATOMS (IONS) IN V, U, AND MN OXIDES
DOKL. AKAD. NAUK SSSR, 200, NO. 1, 145, 1971 IN RUSSIAN
- 100 72 065 MARINOVA TS ZUBENKO YV
ADSORPTION AND DESORPTION OF YTTERBIUM ON CARBONIZED TUNGSTEN
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 635, 1971, TRANSLATED FROM FIZ. TVERD. TELA, 13, 769,
1971
- 100 72 066 MATTHEWS LD
RADIOTRACER AND PHOTOEMISSION STUDIES OF CO CHEMISORBED ON MO(100)
SURFACE SCI., 24, 248, 1971
- 100 72 067 MAYORGA GD PETERSON DL
ADSORPTION IN MORDENITE. 1. CALCULATION OF ADSORPTION POTENTIALS OF NONPOLAR MOLECULES
J. PHYS. CHEM., 76, 1841, 1972
- 100 72 068 MAZUMDAR AK WASSMUTH HW
MASS SPECTROMETRIC STUDY OF THE CHEMISORPTION OF OXYGEN ON TUNGSTEN UNDER TRANSIENT AND STEADY STATE
DESORPTION CONDITIONS
SURFACE SCI., 30, 617, 1972

- 100 72 069 MENZEL D KRONAUER P JELEND W
THRESHOLD ENERGY AND MECHANISMS OF ELECTRON IMPACT DESORPTION AND PHOTODESORPTION OF ADSORPTION
LAYERS ON METALS
BER. BUNSENES. PHYS. CHEM., 75, 1074, 1971 IN GERMAN
- 100 72 070 MENZEL D
DESORPTION FROM METALS BY SLOW ELECTRONS AND PHOTONS. PRIMARY PROCESS
J. VAC. SCI. TECHNOL., 9, 310, 1972
- 100 72 071 MEYER F
ELLIPSOIDOMETRIC STUDY OF ADSORPTION COMPLEXES ON SILICON
SURFACE SCI., 27, 107, 1971
- 100 72 072 NAGAI N
HYDROGEN ABSORPTION BY ZIRCONIUM ALLOY
BOSHOKU GIJUTSU, (CORROSION ENGINEERING), 18, 496, 1969 IN JAPANESE
- 100 72 073 NAVRATIL V
BEITRAG ZUR UNTERSUCHUNG DER SORPTION UND DURCH IONENAUSTAUSCH MIT NICKEL(II) UND CADMIUMKATIONEN
MODIFIZIERTEN MOLEKULSIEBEN
COLLECT. CZECH. CHEM. COMMUN., 37, 146, 1972
- 100 72 074 NEWSHAM IG HOGUE JV SANDSTROM DR
ELECTRON STIMULATED DESORPTION OF EXCITED NEUTRALS: CO ON W
RLD-2221-T-7-4, WASHINGTON STATE UNIV., PULLMAN, DEPT. OF PHYSICS, 1970, 14P, CONF-T11005-2, FROM
INTERNATIONAL CONFERENCE ON SOLID SURFACES, BOSTON, MASS., OCT. 11, 1971
- 100 72 075 NISHIJIM M MUROTANI T
COMBINED AUGER ELECTRON SPECTROSCOPY AND ELECTRON IMPACT DESORPTION STUDIES OF SILICON SURFACES
SURFACE SCI., 32, 459, 1972
- 100 72 076 NISHIJIM M
APPARATUS FOR ELECTRON BOMBARDMENT SURFACE ION DESORPTION STUDY
JAP. J. APPL. PHYS., 11, 732, 1972
- 100 72 077 PANCHENKOV GM KAZANSKA AS RYBAK II
BENZENE AND 1-HEXENE SORPTION ON ALUMOSILICATE CATALYST STUDIED BY MEANS OF MEASURING CATALYST'S
ELECTRICAL RESISTANCE
ZH. FIZ. KHIM., 46, 696, 1972 IN RUSSIAN
- 100 72 078 PEAVEY J LICHTMAN D
PHOTON INDUCED DESORPTION USING SYNCHROTRON RADIATION
SURFACE SCI., 27, NO. 3, XXX, 1971
- 100 72 079 PENN D GOMER R COHEN MH
ENERGY DISTRIBUTION IN FIELD EMISSION FROM ADSORBATE COVERED SURFACES
PHYS. REV., 58, 768, 1972, AD-737 496, 1971
- 100 72 080 PODCHERNYAEVA IA FOMENKO VS
ADSORPTION OF LANTHANIDES ON TRANSITION METALS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 375, 1971, TRANSLATED FROM ZH. FIZ. KHIM., 45, 680, 1971
- 100 72 081 RANKIN PC WILSON AT BEATSON ID
A NEW APPROACH TO STUDY OF WATER VAPOR ADSORPTION. ISOTOPIC EXCHANGE OF TRITIATED WATER VAPOR
J. COLLOID INTERFACE SCI., 36, 340, 1971
- 100 72 082 ROBERTSON JC WILMSEN CW
PREFERENTIAL ORIENTATION OF CO ADSORPTION ON NI AS DETERMINED BY EXTENDED MUCKEL CALCULATIONS
J. VAC. SCI. TECHNOL., 9, 901, 1972
- 100 72 083 RYABCHIKOV LN VYUGOV PN
ABSORPTION OF OXYGEN AND NITROGEN BY ZIRCONIUM AT LOW PRESSURE
FIZ. KHIM. DBRAB. MATER., NO. 1, 85, 1971 IN RUSSIAN
- 100 72 084 SCHEER MD KLEIN R MCKINLEY JD
HALOGENS ADSORBED ON MOLYBDENUM: THEIR SURFACE LIFETIMES AND DESORPTION KINETICS
SURFACE SCI., 30, 251, 1972
- 100 72 085 SCHMIDT LD
DETERMINATION OF ADSORBATE STRUCTURES ON METAL SURFACES: ALKALIS, RARE GASES, AND HYDROGEN ON
TUNGSTEN
J. VAC. SCI. TECHNOL., 9, 882, 1972
- 100 72 086 SIMON O BARDOLLE J
ADSORPTION KINETICS OF OXYGEN AT THE SURFACE OF SINGLE NIOBIUM CRYSTALS AT HIGH TEMPERATURE AND LOW
PRESSURES
COMPT. REND., SER. C, 272, 1800, 1971 IN FRENCH
- 100 72 087 SOMORJAI GA
LOW ENERGY ELECTRON DIFFRACTION AND AUGER ELECTRON SPECTROSCOPY STUDIES OF THE STRUCTURE OF ADSORBED
GASES ON SOLID SURFACES
LBL-878, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., JUNE 1972, CONF-720653-1, 24P, FROM
CONFERENCE ON SURFACES, ROLLA, MO., JUNE 19, 1972
- 100 72 088 SRINIVASAN SR SREEHARSHA SK TRIVEDI R
LEED STUDY OF SOLID SURFACES: ADSORPTION OF OXYGEN ON V(100) SURFACE
IS-2911, AMES LAB., IOWA STATE UNIV., AMES, 12P, CONF-720509-2, FROM SYMPOSIUM ON DEFECT
INTERACTIONS IN SOLIDS, BANGALORE, INDIA, MAY 9, 1972
- 100 72 089 SUVOROV AL KUKAVADZE GM
ADSORPTION AND DESORPTION OF RESIDUAL GASES ON A TUNGSTEN SURFACE IN A STRONG ELECTRIC FIELD
PHYS. METALS METALLOG. USSR (ENGL. TRANS.), 30, 121, 1970, TRANSLATED FROM FIZ. METAL. METALLOVED.,
30, 116, 1970
- 100 72 090 TAKEUCHI T NAKASHIMA Y TEZUKA Y MIYATANI D
EFFECTS OF ALPHA PARTICLE IRRADIATION ON THE REACTIVITY OF NICKEL FOR THE ADSORPTION OF HYDROGEN
NATURWISSENSCHAFTEN, 58, 52, 1971
- 100 72 091 TAKEZAWA N
OBSERVATION OF SURFACE HYDROXYL GROUPS ON METAL OXIDES BY MEANS OF INFRARED REFLECTANCE SPECTROSCOPY
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971

- 100 72 092 TAMM PW SCHMIDT LD
CRYSTALLOGRAPHIC ANISOTROPIES IN CONDENSATION: N₂ ON W(110)
SURFACE SCI., 26, 286, 1971
- 100 72 093 TAMM PW SCHMIDT LD
BINDING STATES OF HYDROGEN ON TUNGSTEN
J. CHEM. PHYS., 54, 4775, 1971
- 100 72 094 TAMM PW SCHMIDT LD
CONDENSATION OF HYDROGEN ON TUNGSTEN
J. CHEM. PHYS., 55, 4253, 1971
- 100 72 095 TAMURA T
COADSORPTION OF NITRIC OXIDE, NITROGEN, AND OXYGEN ON RHENIUM
BULL. CHEM. SOC. JAPAN, 44, 2116, 1971
- 100 72 096 TAPILIN VM
EFFECT OF SCREENING ON PROPERTIES OF SPECIES ADSORBED OR DILUTED IN A METAL. 3. BOND ENERGY IN
DIATOMIC MOLECULES
KINET. KATAL., 13, 154, 1972 IN RUSSIAN
- 100 72 097 TYLER RJ WOUTERLOOD HJ
PHYSICAL ADSORPTION OF CARBON DIOXIDE ON GRAPHON
CARBON, 9, 467, 1971
- 100 72 098 USTINOV YK
NATURE OF THE CHEMISORPTION PHASES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1912, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 2447,
1970
- 100 72 099 USTINOV YK
CHEMISORPTION OF CARBON MONOXIDE ON TANTALUM
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 311, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 411, 1971
- 100 72 100 USTINOV YK
SIMULTANEOUS ADSORPTION OF HYDROGEN AND CARBON MONOXIDE ON TUNGSTEN
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 447, 1971. TRANSLATED FROM FIZ. TVERD. TELA, 13, 558,
1971
- 100 72 101 VLADIMIROV GG SHAKIROVA SA SOKOL'SKAYA IL
DIFFUSION OF SiO MOLECULES ALONG A TUNGSTEN SURFACE IN STRONG ELECTRIC FIELDS
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 12, 2748, 1971. TRANSLATED FROM FIZ. TVERD. TELA, 12, 3378,
1970
- 100 72 102 VOORHOEVE RJH WAGNER RS
ADSORPTION, NUCLEATION, AND GROWTH OF CADMIUM ON TUNGSTEN COVERED WITH OXYGEN OR HYDROGEN
MET. TRANS., 2, 3421, 1971
- 100 72 103 VOORHOEVE RJH WAGNER RS CARIDES JN
STUDY OF ADSORPTION AND NUCLEATION OF CADMIUM ON TUNGSTEN AND GERMANIUM BY A MOLECULAR BEAM TECHNIQUE
J. VAC. SCI. TECHNOL., 9, 780, 1972
- 100 72 104 WEDLER G SANTELMANN G
ELUTION STUDIES ON THE ADSORPTION SYSTEM NICKEL-HYDROGEN, DEUTERIUM
BER. BUNSEN. PHYS. CHEM., 75, 1026, 1971 IN GERMAN
- 100 72 105 WEDLER G BROECKER FJ FISCH G SCHROLL G
COMPARISON OF THE HEAT OF ADSORPTION OF HYDROGEN AND DEUTERIUM ON NICKEL FILMS
Z. PHYS. CHEM. (FRANKFURT), 76, 212, 1971 IN GERMAN
- 100 72 106 WEISSLER GL OGAWA M JUDGE DL
ABSORPTION OF O₂, CO₂, AND CS₂: FLUORESCENCE FROM CS₂; AND PHOTOIONIZATION OF ATOMIC CARBON
AD-732 589. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151,
1970
- 100 72 107 YAMAZAKI H OGURI T KANOMATA I
CALORIMETRIC HEATS OF CHEMISORPTION OF NITROGEN ON TUNGSTEN AT HIGHER TEMPERATURES
JAP. J. APPL. PHYS., 10, 1105, 1971
- 100 72 108 YATES JT MADEY TE
INTERACTIONS BETWEEN CHEMISORBED SPECIES: H₂ AND CO ON TUNGSTEN(100)
J. CHEM. PHYS., 54, 4969, 1971
- 100 72 109 YATES JT MADEY TE
ADSORPTION OF METHANE BY TUNGSTEN(100) AND TUNGSTEN(111)
J. VAC. SCI. TECHNOL., 9, 672, 1972
- 100 72 110 YONEHARA K SCHMIDT LD
LEED STUDY OF STRUCTURES PRODUCED BY H₂ ON W(100)
SURFACE SCI., 23, 238, 1971
- 100 72 111 ZECCHINA A COLUCCIA S GUGLIELMINOTTI E GHIOTTI G
INFRARED STUDY OF SURFACE PROPERTIES OF ALPHA-CHROMIUM. 1. PREPARATION AND ADSORPTION OF WATER, HEAVY
WATER, AND CARBON MONOXIDE
J. PHYS. CHEM., 75, 2774, 1971
- 100 72 112 ZEHNER DM FARNSWORTH HE
LEED STRUCTURES DUE TO INTERACTION OF CO AND O₂ WITH RE(0001) AND RE(1010) AT 20 TO 920 DEGREES C
SURFACE SCI., 30, 335, 1972
- 100 72 113 ZINGERMA VP
STUDY OF OXYGEN SORPTION ON TUNGSTEN BY METHOD OF MOLECULAR BEAM IONIZATION
FIZ. TVERD. TELA, 14, 285, 1972 IN RUSSIAN
- 105 72 001 ALDANA AB FITES RC
CHANGES IN NUCLEIC ACIDS, PROTEIN AND RIBONUCLEASE ACTIVITY DURING MATURATION OF PEANUT SEEDS
PLANT CELL PHYSIOL. (TOKYO), 13, 515, 1972
- 105 72 002 AUNA ZP KAUROV OA MARTYNOV VF MICROZOV VB
AMINO ACIDS AND PEPTIDES. 8. OXYTOCIN ANALOGS WITH 3-NITRO-L-D-TYROSINES AND 9-NITRO-L-PHENYLALANINE
IN THE SECOND POSITION
BNL-TR-468. TRANSLATED FOR BROOKHAVEN NATIONAL LAB., UPTON, N.Y., FROM VESTN. LENINGRAD. UNIV., SER.
BIOL., NO. 16, 674, 1970, 13P

- 105 72 003 BACON JR GRAHAM GN
SEQUENCE STUDIES ON THE MILK PROTEIN ALPHA-LACT-ALBUMIN BY USING MASS SPECTROMETRY
BIOCHEM. J., 127, NO. 3, 76, 1972. PROCEEDINGS OF THE BIOCHEM. SOC.
- 105 72 004 BALASUBR R RAMAKRIS C
STEREOCHEMICAL CRITERIA FOR POLYPEPTIDE AND PROTEIN CHAIN CONFORMATIONS. 8. ENERGY MAPS FOR A PAIR
OF NONPLANAR PEPTIDE UNITS HAVING DISTORTION OF BOND ANGLE AT ALPHA-CARBON ATOM
INT. J. PEPTIDE PROTEIN RES., (INT. J. PROTEIN RES.), 4, 91, 1972
- 105 72 005 BAYER E
F(19) NUCLEAR MAGNETIC RESONANCE FOR THE CONTROL OF PEPTIDE SYNTHESIS
JACS, 94, 265, 1972
- 105 72 006 BEUHLER RJ
SOLVATED PROTON MASS SPECTRA OF A TRIPEPTIDE DERIVATIVE
JACS, 93, 4307, 1971
- 105 72 007 BEVAN K
AMINO ACIDS AND PEPTIDES. 10. CHARACTERISATION OF THE MONAMYCINS, MEMBERS OF A NEW FAMILY OF
CYCLODEPSIPEPTIDE ANTIBIOTICS
J. CHEM. SOC. C, P514, 1971
- 105 72 008 BLACKBURN S
PROTEIN SEQUENCE DETERMINATION. METHODS AND TECHNIQUES
BOOK, MARCEL DEKKER, INC., 1970, 278P
- 105 72 009 BONNET MC PARIS RA MARTIN R
1. ETUDE POTENTIOMETRIQUE DES CHELATES TERNAIRES FORMES PAR LE ZINC AVEC L'ALANINE, LA GLYCINE ET L'
AMMONIAC. 2. ETUDE POTENTIOMETRIQUE DES CHELATES BINAIRES ET TERNAIRES DU CADMIUM AVEC L'ALANINE,
LA GLYCINE ET L'AMMONIAC
BULL. SOC. CHIM. FRANCE, P903 AND P909, 1972
- 105 72 010 BROSTOFF SW ROSEGAY A VAN DEN HE WJ
IDENTIFICATION OF N(G), N'(G)-DIMETHYLARGININE AND N(G), N'(G)-DIMETHYLARGININE IN BASIC A1 PROTEIN
FROM BOVINE MYELIN
ARCH. BIOCHEM. BIOPHYS., 148, 156, 1972
- 105 72 011 BURL EIGH BD WILLIAMS CH
ISOLATION AND PRIMARY STRUCTURE OF A PEPTIDE CONTAINING OXIDATION-REDUCTION ACTIVE CYSTINE OF
ESCHERICHIA COLI LIPOAMIDE DEHYDROGENASE
J. BIOL. CHEM., 247, 2077, 1972
- 105 72 012 CANNON EL LOVINS RE
QUANTITATIVE PROTEIN SEQUENCING USING MASS SPECTROMETRY: COMPUTER AIDED ASSEMBLY OF PROTEIN
SEQUENCES FROM N-TERMINAL SEQUENCES
ANAL. BIOCHEM., 46, 33, 1972
- 105 72 013 CHIZHOV OS
MASS SPECTROMETRY OF GLYCOPROTEINS: O-GLYCOSYL DERIVATIVES OF L-SERINE AND L-THREONINE
CARBOHYD. RES., 20, 275, 1971
- 105 72 014 CHUNG AE FRANZEN JS BRAGINSK JE
OXIDIZED TRIPHOSPHOPYRIDINE NUCLEOTIDE SPECIFIC ISOCITRATE DEHYDROGENASE FROM AZOTOBACTER VINELAND.
2. MODIFICATION OF A REACTIVE SULFHYDRYL GROUP WITH CYANIDE
BIOCHEM., 10, 2872, 1971
- 105 72 015 DAS BC SCHMID RD
MASS SPECTROMETRY OF PERMETHYLATED PEPTIDES CONTAINING TYROSINE AND TRYPTOPHAN
FEBS (FED. EUR. BIOCHEM. SOC.) LETTS, 25, 253, 1972
- 105 72 016 FAIRWELL T LOVINS RE
QUANTITATIVE PROTEIN SEQUENCING USING MASS SPECTROMETRY: MASS SPECTRAL ANALYSIS OF
2-ANILINO-5-THIAZOLINONE DERIVATIVES OF AMINO ACIDS WITHOUT PRIOR CONVERSION TO
PHENYLTHIOHYDANTOINS
BIOCHEM. BIOPHYS. RES. COMMUN., 43, 1280, 1971
- 105 72 017 FALES HM
USE OF CHEMICAL IONIZATION MASS SPECTROMETRY IN ANALYSIS OF AMINO ACID PHENYLTHIOHYDANTOIN
DERIVATIVES FORMED DURING EDMAN DEGRADATION OF PROTEINS
ANAL. BIOCHEM., 43, 288, 1971
- 105 72 018 FEENEY J ROBERTS GC BURGESS AS
CONFORMATIONAL STUDIES OF SOME HORMONAL PEPTIDES IN SOLUTION BY USING NUCLEAR MAGNETIC RESONANCE
SPECTROSCOPY
BIOCHEM. J., 125, 62P, 1971
- 105 72 019 FRIEDBERG F
CHEMICAL EFFECTS OF IONIZING RADIATIONS ON THE INDIVIDUAL AMINO ACIDS WITHIN INTACT AND PURE PROTEIN
MOLECULES
ORD-4183-14, ANNUAL PROGRESS REPORT FOR THE PERIOD BEGINNING FEBRUARY 1, 1971, HOWARD UNIV.,
WASHINGTON, D.C. DEPT. OF BIOCHEMISTRY, OCT. 1971, 5P
- 105 72 020 FURST P
STUDIES OF THE PROTEIN METABOLISM BY USE OF N(15)
SCAND. J. CLIN. LAB. INVESTIG., 27, SUPPL. 118, 33, 1971
- 105 72 021 GAIT RJ LANGLOIS JR WILLIAMS RE
USE OF N-CARBOXYANHYDRIDES IN SYNTHESIS OF DIPEPTIDES. IMPROVEMENT OF ISOLATED YIELDS BY FACILE
REMOVAL OF BUFFER COMPONENTS
CAN. J. CHEM., 50, 299, 1972
- 105 72 022 GALARDY RE PRINTZ MP CRAIG LC
TRITIUM-HYDROGEN EXCHANGE OF BACITRACIN A. EVIDENCE FOR AN INTRAMOLECULAR HYDROGEN BOND
BIOCHEM., 10, 2429, 1971
- 105 72 023 GILLIS RG
MASS SPECTRA OF SOME N-AMINO COMPOUNDS
AD-736 103, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971

- 105 72 024 GOLOVCHENKO VI SOLOVENKO LP CHERNYI IV KHVOSTOVA VV TROFIMOVA OS
AMINO ACID COMPOSITION OF PROTEIN IN RADIATION INDUCED VARIETIES OF LUPIN FOR FODDER AND IN
ECONOMICALLY VALUABLE MUTANTS OF SPRING WHEAT
CSIRO-TRANS-10640. TRANSLATED FOR AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS
HEIGHTS. FROM PP 149-62 OF REPORT STI/PUB-258. 20P. CONF-700612-3.
- 105 72 025 GOMPERTZ D DRAFFAN GH
IDENTIFICATION OF GLYCLGLYCINE IN URINE OF A CHILD WITH BETA-METHYLCROTONYLGLYCINURIA
CLIN. CHIM. ACTA. 37. 405. 1972
- 105 72 026 GORDON AG LUMBARDI FJ KABACK HR
SOLUBILIZATION AND PARTIAL PURIFICATION OF AMINO ACID SPECIFIC COMPONENTS OF D-LACTATE DEHYDROGENASE
COUPLED AMINO ACID TRANSPORT SYSTEMS (E. COLI)
PROC. NAT. ACAD. SCI. U.S.A.. 69. 358. 1972
- 105 72 027 GROTH CG BERGSTRO K COLLSTE L
IMMUNOLOGIC AND PLASMA PROTEIN STUDIES IN A SPLENIC HOMOGRAFT RECIPIENT
CLIN. EXP. IMMUNOL.. 10. 359. 1972
- 105 72 028 HALLAWAY BE BENSON ES
HYDROGEN EXCHANGE IN PROTEINS. EQUILIBRIUM AND KINETIC ISOTOPE EFFECTS IN BOVINE PLASMA ALBUMIN
STUDIED WITH TRITIUM AND DEUTERIUM
BIOCHIM. BIOPHYS. ACTA. 243. 380. 1971
- 105 72 029 HASSALL CH
AMINO ACIDS AND PEPTIDES. 13. SYNTHESIS OF TWO, FOURTEEN MEMBERED RING CYCLOPEPTIDES
J. CHEM. SOC. C. P2814. 1971
- 105 72 030 HAYASHI K TAKECHI M SASAKI T
AMINO ACID SEQUENCE OF CYTOTOXIN-I FROM VENOM OF INDIAN COBRA (NAJA NAJA)
BIOCHEM. BIOPHYS. RES. COMMUN.. 45. 1357. 1971
- 105 72 031 HAYASHI T IWAI K UI N
NUMBER AND TYPES OF PEPTIDE CHAINS IN THYROGLOBULIN: TRYPTIC PEPTIDES OF NONIODINATED HOG
THYROGLOBULIN
BIOCHIM. BIOPHYS. ACTA. 251. 208. 1971
- 105 72 032 HECHT SM SUNDARAL M
STEREOCHEMISTRY OF NUCLEIC ACIDS AND THEIR CONSTITUENTS. 26. CRYSTAL AND MOLECULAR STRUCTURE OF A 1
:1 ADDUCT OF ETHANOL AND 3'-DEOXY-3'-(DIHYDROXYPHOSPHINYLMETHYL)ADENOSINE. AN ANALOG OF ADENOSINE
3'-MON
JACS. 94. 4314. 1972
- 105 72 033 HURGHISIU I DREZEANU A TITU H
MODIFICATION OF THE FREE AMINO ACID CONTENT IN ZERNA INERMIS (LEYS.) LINDIN PLANT UNDER THE
INFLUENCE OF SEED IRRADIATION WITH CO(60) GAMMA RAYS
REV. ROM. BIOL.. SER. BOT.. 16. NO. 2. 119. 1971
- 105 72 034 IKEHARA M
A NOVEL REARRANGEMENT OF S TO O-CYCLONUCLEOSIDES
TETRAHEDRON LETS. P2965. 1971
- 105 72 035 IMADA O SAITO Y
EFFECT OF AMINO ACIDS ON GROWTH OF LAYER. 1. AMINO ACIDS UPTAKE AND THEIR GROWTH PROMOTIVE EFFECT ON
LAYER. 2. METABOLICAL ACTIVE SITE FOR AMINO ACIDS UPTAKE AND THEIR METABOLIC CHANGE IN LAYER
BULL. JAP. SOC. SCI. FISHERIES. 37. 1125 AND 1134. 1971
- 105 72 036 IRVING P
DETERMINATION OF THE SEQUENCES OF AMINO ACIDS IN MIXTURES OF PEPTIDES BY MASS SPECTROMETRY
THESIS. CORNELL UNIV. ABSTRACT OF THESIS NO. 72-15.414. DISS. ABS.. 832. 12. PT.1. 6878-9. 1972
- 105 72 037 ITOH M
PEPTIDES. 3. NOVEL AMINO ACTIVATION BY CARBAMATE FORMATION FROM AMINO ACIDS AND PEPTIDES IN AQUEOUS
SOLUTION
CHEM. PHARM. BULL. (TOKYO). 20. 664. 1972
- 105 72 038 JULIANO RL
PROTEINS OF THE ERYTHROCYTE MEMBRANE
UR-49-1430. ROCHESTER UNIV., NEW YORK. DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS. 1970. 71P
- 105 72 039 KIKUCHI Y FUJIMOTO D IAHIVA N
SYNTHESIS AND ENZYMIC HYDROXYLATION OF PROTOCOLLAGEN MODEL PEPTIDE CONTAINING A HYDROXYPROLINE
RESIDUE
BIOCHEM. J.. 124. 695. 1971
- 105 72 040 KLEIN NW
PROTEINS IN GROWTH REGULATION DURING EARLY DEVELOPMENT OF THE CHICK EMBRYO
COO-3139-1. PROGRESS REPORT, MAY 1971 - MAY 1972. CONNECTICUT UNIV., STORRS. DEPT. OF ANIMAL
GENETICS. 13P
- 105 72 041 KONTULA K JANNE O JANNE J VIHKO R
PARTIAL PURIFICATION AND CHARACTERIZATION OF PROGESTERONE BINDING PROTEIN FROM PREGNANT GUINEA PIG
UTERUS
BIOCHEM. BIOPHYS. RES. COMMUN.. 47. 596. 1972
- 105 72 042 KOPPLE KD
CONFORMATIONS OF CYCLIC PEPTIDES. 6. FACTORS INFLUENCING MONO, 1,4-DI, AND 1,2,4-TRI SUBSTITUTED
CYCLIC HEXAPEPTIDE BACKBONES
JACS. 94. 973. 1972
- 105 72 043 KUVACS J KALITA C GHATAK UR
SYNTHESIS OF POLYGLUTATHIONE, POLYASPARTHIONE, AND RELATED SEQUENTIAL POLYPEPTIDES
J. ORG. CHEM.. 37. 30. 1972
- 105 72 044 KUSHELEVSKY AP SLIFKIN MA
MASS SPECTROMETRY OF GAMMA IRRADIATED AMINO ACIDS AND PEPTIDES
RADIAT. EFF.. 11. 91. 1971
- 105 72 045 KUTNEY JP KLEIN FK EIGENDORF G
ALKALOIDS FROM CRUON SPECIES. 12. GLUTARIMIDE PEPTIDES FROM C. HUMILIS L.
TETRAHEDRON LETS. P4973. 1971

- 105 72 046 LAUREN DR WILLIAMS RE
RACEMIZATION DURING USE OF POLYMERIC SUPPORTS IN PEPTIDE SYNTHESIS
TETRAHEDRON LTRS. P266S, 1972
- 105 72 047 LAWLESS JG CHADHA MS
MASS SPECTRAL ANALYSIS OF C3 AND C4 ALIPHATIC AMINO ACID DERIVATIVES
ANAL. BIOCHEM., 44, 473, 1971
- 105 72 048 LAWLESS JG
EVIDENCE FOR AMINO ACIDS OF EXTRATERRESTRIAL ORIGIN IN THE ORQUEIL METEORITE
NATURE, 236, 66, 1972
- 105 72 049 LECLERCO PA DESIDERIO OM
PERMETHYLATION OF METHIONINE CONTAINING OLIGOPEPTIDES FOR SEQUENCE ANALYSIS BY MASS SPECTROMETRY
BIOCHEM. BIOPHYS. RES. COMMUN., 45, 308, 1971
- 105 72 050 LIPTON SH DUTKY RC
MASS SPECTRAL STUDIES OF N-(2-FURACYL)GLYCINE AND RELATED COMPOUNDS
J. AGR. FOOD CHEM., 20, 235, 1972
- 105 72 051 LLOYD K YOUNG GT
AMINO ACIDS AND PEPTIDES. 34. ANCHIMERICALLY ASSISTED COUPLING REACTIONS: THE USE OF 2-PYRIDYL
THIOLESTERS
J. CHEM. SOC. C, P2890, 1971
- 105 72 052 LOGUE MW LEONARD NJ
'ABBREVIATED' DINUCLEOSIDES OF THYMIDINE AND DEOXYURIDINE AND THEIR PHOTOPRODUCTS
JACS, 94, 2842, 1972
- 105 72 053 LOVINS RE CRAIG J THOMAS F
QUANTITATIVE PROTEIN SEQUENCING USING MASS SPECTROMETRY: PROTEIN SEQUENCATOR-MASS SPECTROMETER
INTERFACE EMPLOYING FLASH EVAPORATIVE TECHNIQUES
ANAL. BIOCHEM., 47, 539, 1972
- 105 72 054 MARINO G VALENTE L JOHNSTON RA
N-METHYLATION OF PEPTIDES
J. CHEM. SOC. D, P357, 1972
- 105 72 055 MATSUSHITA T
STUDIES ON MODIFIED PYRIMIDINE NUCLEOTIDES OF DNA AND RNA
THESIS. RUTGERS UNIV. THE STATE UNIV. OF NEW JERSEY. ABSTRACT OF THESIS NO. 71-3076. DISS. ABS.,
31B, 8, 4490, 1971
- 105 72 056 MCSHARRY JJ COMPANS RW CHOPPIN PW
PROTEINS OF VESICULAR STOMATITIS VIRUS (VSV) AND OF PHENOTYPICALLY MIXED VSV-SVS VIRIONS
NYO-3983-32. ROCKEFELLER UNIV., NEW YORK, 1971. 29P. CONF-710516-1. FROM BACTERIOLOGICAL
PROCEEDINGS. MINNEAPOLIS, MINN., MAY 2, 1971
- 105 72 057 MILLER MS
HYDROGEN-DEUTERIUM EXCHANGE OF AMIDE GROUPS INCORPORATED INTO POLYMERIC SYSTEMS
THESIS. NORTHWESTERN UNIV., EVANSTON, ILL., 1971. 111P. UNIV. MICROFILMS ORDER NO. 71-30,893
- 105 72 058 MORRIS HR WILLIAMS DH AMBLER RP
DETERMINATION OF THE SEQUENCES OF PROTEIN DERIVED PEPTIDES AND PEPTIDE MIXTURES BY MASS SPECTROMETRY
BIOCHEM. J., 125, 189, 1971
- 105 72 059 MORRIS HR WILLIAMS DH
IDENTIFICATION OF A MUTANT PEPTIDE OF AN ABNORMAL HAEMOGLOBIN BY MASS SPECTROMETRY
J. CHEM. SOC. D, P114, 1972
- 105 72 060 MORRIS HR
STUDIES TOWARDS COMPLETE SEQUENCE DETERMINATION OF PROTEINS BY MASS SPECTROMETRY: A RAPID PROCEDURE
FOR SUCCESSFUL PERMETHYLATION OF HISTIDINE CONTAINING PEPTIDES
FEBS (FED. EUR. BIOCHEM. SOC.) LTRS. 22, 257, 1972
- 105 72 061 MUTTER M HAGENMAI H BAYER E
NEW METHOD OF POLYPEPTIDE SYNTHESIS
ANGEW. CHEM. INT. ED. ENGL., 10, 811, 1971
- 105 72 062 NAKATO Y OZAKI M EGAWA A
ORGANIC AMINO COMPOUNDS WITH VERY LOW IONIZATION POTENTIALS
CHEM. PHYS. LTRS. 9, 615, 1971
- 105 72 063 NISHIMURA H TAHARA S OKUYAMA H
MASS SPECTRA OF SULPHUR CONTAINING AMINO ACIDS AND PEPTIDES
TETRAHEDRON, 28, 4503, 1972
- 105 72 064 NOVOTNY J DOLEJS L FRANEK F
UNIFORMITY AND SPECIES-SPECIFIC FEATURES OF N-TERMINAL AMINO ACID SEQUENCE OF PORCINE IMMUNOGLOBULIN
LAMBDA CHAINS
EUR. J. BIOCHEM., 31, 277, 1972
- 105 72 065 ORLOV VM VARSHAVS YM KIRYUSHK AA
COMPARATIVE STUDIES ON PHOTOIONIZATION AND ELECTRON IMPACT IONIZATION OF PEPTIDE DERIVATIVES
ORG. MASS SPECTRY, 6, 9, 1972
- 105 72 066 OVCHINNIKOV YA
MASS SPECTROMETRY OF AMINO ACID SEQUENCE IN PEPTIDES. THE ALAMETHICIN STRUCTURE
ZH. OBSHCHE. KHIM., 41, 2085, 1971 IN RUSSIAN
- 105 72 067 OVCHINNIKOV YA KIRYUSHK AA
DETERMINATION OF AMINO ACID SEQUENCE OF PEPTIDES USING DIPEPTIDYL AMINOPEPTIDASES
FEBS (FED. EUR. BIOCHEM. SOC.) LTRS. 21, 300, 1972
- 105 72 068 PEREIRA W HOYANO Y REYNOLDS W SUMMONS R DUFFIELD A
THE SIMULTANEOUS QUANTITATION OF TEN AMINO ACIDS IN SOIL EXTRACTS BY MASS FRAGMENTOGRAPHY
N73-21159. STANFORD UNIV., CALIF., DEPT. OF GENETICS, 1972. 14P. NTIS
- 105 72 069 PFLEIDER W SHANSHAL M EISTETTE K
NUCLEOSIDE. 5. SYNTHESSE UND STRUKTUR VON 8-METHYL UND 8-TRIFLUORMETHYL-GUANIN-NUCLEOSIDEN
CHEM. BER., 105, 1497, 1972

- 105 72 070 PHUNG NHU LIEM
DEVELOPMENT OF METHODS FOR SYNTHESIZING AMINO ACIDS IN VIEW OF BIOLOGICAL APPLICATIONS USING C(14)
LABELING
FRNC-TH-232. THESIS. PARIS UNIV., FRANCE, 1972. 81P IN FRENCH
- 105 72 071 POLAN ML
MASS SPECTROMETRY OF CYSTEINE CONTAINING PEPTIDES
THESIS. YALE UNIV., NEW HAVEN, CONN., 1971. UNIV. MICROFILMS ORDER NO. 71-16,695. DISS. ABS., 32B.
1, 75, 1971
- 105 72 072 POLAN ML MCMURRAY WJ LIPSKY SR
APPLICATION OF MASS SPECTROMETRIC SEQUENCING TECHNIQUES TO NATURALLY OCCURRING AND SYNTHETIC
HISTIDINE CONTAINING PEPTIDES
JACS, 94, 2847, 1972
- 105 72 073 RICHARDSON BL
EFFECTS OF X-RAYS ON THE FREE AMINO ACID CONCENTRATION OF THE HEMOLYMPH DURING THE LAST LARVAL
INSTAR OF THE WAX MOTH, GALLERIA MELLONELLA (L.)
THESIS. OHIO STATE UNIV., COLUMBUS, 1971. 153P. UNIV. MICROFILMS ORDER NO. 72-4621
- 105 72 074 RIDGE B
POLYPEPTIDES. 21. SYNTHESIS OF SOME SEQUENTIAL MACROMOLECULAR POLYPEPTOLIDES OF L-LEUCINE AND
L-2-HYDROXY-4-METHYLPENTANDIC ACID
J. CHEM. SOC., PERKIN TRANS., I, P2041, 1972. FORMERLY J. CHEM. SOC. C
- 105 72 075 ROBERTS GC FEENEY J
COMBINATION OF NMR SPECTROSCOPY AND POTENTIAL ENERGY CALCULATIONS IN STUDY OF PEPTIDE CONFORMATION
IN SOLUTION
BIOCHEM. J., 125, 88, 1971
- 105 72 076 ROBINS MJ NAIK SR
NUCLEIC ACID RELATED COMPOUNDS. 3. A FACILE SYNTHESIS OF 5-FLUOROURACIL BASES AND NUCLEOSIDES BY
DIRECT FLUORINATION
JACS, 93, 5277, 1971
- 105 72 077 ROBYT JF ACKERMAN RJ CHITTEND CG
REACTION OF PROTEIN DISULFIDE GROUPS WITH ELLMAN'S REAGENT: CASE STUDY OF NUMBER OF SULFHYDRYL AND
DISULFIDE GROUPS IN ASPERGILLUS ORYZAE ALPHA-AMYLASE, PAPAIN, AND LYSOZYME
ARCH. BIOCHEM. BIOPHYS., 147, 262, 1971
- 105 72 078 ROEPSTORFF P
MASS SPECTROMETRIC SEQUENCE DETERMINATION OF PERMETHYLATED PEPTIDE MIXTURES
FEBS (FED. EUR. BIOCHEM. SOC.) LETTS, 15, 237, 1971
- 105 72 079 RONCHI S WILLIAMS CH
ISOLATION AND PRIMARY STRUCTURE OF A PEPTIDE CONTAINING OXIDATION-REDUCTION ACTIVE CYSTINE OF
ESCHERICHIA COLI THIOREDOXIN REDUCTASE
J. BIOL. CHEM., 247, 2083, 1972
- 105 72 080 ROSTOVTS LI KIRYUSHK AA KHOKHLOV AS
L-BETA LYSINE PEPTIDES. 2. SYNTHESIS AND COMPARATIVE MASS SPECTROMETRIC STUDY OF PEPTIDES WITH
L-BETA LYSINE AND L-ALPHA LYSINE
ZH. OBSHCH. KHIM., 41, 1380, 1971 IN RUSSIAN
- 105 72 081 ROSTOVTS LI KIRYUSHK AA
MASS SPECTROMETRY IN INVESTIGATION OF BETA LYSINE CONTAINING PEPTIDES

ORG. MASS SPECTRY, 6, 1, 1972
- 105 72 082 RUDAZATS R GELLERT E HALPERN B
CONSTITUENTS OF A NEW GUINEA BOLETUS: ISOLATION AND IDENTIFICATION OF A NEW UNSATURATED ALPHA AMINO
ACID
BIOCHEM. BIOPHYS. RES. COMMUN., 47, 290, 1972
- 105 72 083 SCANU AM
POLYPEPTIDES OF HUMAN SERUM LIPOPROTEIN AND THEIR CLINICAL SIGNIFICANCE
ACRH-1000-291. CHICAGO UNIV., ILL., PRITZKER SCHOOL OF MEDICINE, AND ARGONNE CANCER RESEARCH
HOSPITAL, CHICAGO, ILL., 1971. 16P. CONF-711128-1. FROM 17TH APPLIED SEMINAR ON THE CLINICAL
PATHOLOGY OF THE LIPIDS, WASHINGTON, D.C., NOV. 12, 1971
- 105 72 084 SCANU AM
ON THE STRUCTURE OF HUMAN SERUM, LOW AND HIGH DENSITY LIPOPROTEINS
ACRH-1000-376. CHICAGO UNIV., ILL., AND ARGONNE CANCER RESEARCH HOSPITAL, CHICAGO, ILL., 1972. 49P.
CONF-720719-1. FROM CIBA FOUNDATION SYMPOSIUM, LONDON, ENGLAND, JULY 6, 1972
- 105 72 085 SCHMIDT CL RUSHO WJ TOWNSEND LB
SYNTHESIS OF BICYCLIC NUCLEOSIDES RELATED TO URIDINE, 4-(BETA-D-RIBOFURANOSYL)THIAZOLO(5,4-
D)PYRIMIDINES
J. CHEM. SOC. D, NO. 23, PXXX, 1971
- 105 72 086 SCHOR R STYMNE H WETTERMA G
CNDO/2 CALCULATION ON HELICAL CONFORMATIONS OF A TETRAPEPTIDE OF GLYCINE. 3. PHI-PSI ENERGY SURFACE
J. PHYS. CHEM., 76, 670, 1972
- 105 72 087 SCOTT RP ZOLTY S CHAN KK
AUTOMATIC APPARATUS FOR SYNTHESIS OF PEPTIDES USING RESIN COATED GLASS BEADS IN FORM OF A PACKED BED
J. CHROMATOGR. SCI., 10, 384, 1972. FORMERLY J. GAS CHROMATOGR.
- 105 72 088 SELCHIS JA LEDNARO NJ
SYNTHETIC SPECTROSCOPIC MODELS RELATED TO COENZYMES AND BASE PAIRS. 'ABBREVIATED' NICOTINAMIDE
ADENINE DINUCLEOTIDE
JACS, 94, 4401, 1972
- 105 72 089 SEILER N SCHNEIDE HM SONNENBE K
MASS SPECTROMETRY OF 1-DIMETHYLAMINONAPHTHALENE-5-SULFONYL AMINO ACIDS
ANAL. BIOCHEM., 44, 451, 1971
- 105 72 090 SEQUIN U TAMM C
NUCLEOSIDES AND NUCLEOTIDES. 2. SYNTHESIS OF BOTH ANOMERS OF 1-(5'-D-PHOSPHORYL)-2'-
DEOXY-D-RIBOFURANOSYL)-2(1H)-PYRIDONE
HELV. CHIM. ACTA, 55, 1196, 1972

- 105 72 091 SMITH MB BACK JF
PREPARATION AND PROPERTIES OF C-TERMINAL PEPTIDE OF OVALBUMIN, NEW SUBSTRATE AND POLYPEPTIDE MODEL
PROC. AUSTRALIAN BIOCHEM. SOC., 4, 47, 1971
- 105 72 092 SNYDER RV ANGELICI RJ MECK RB
PARTIAL RESOLUTION OF AMINO ACIDS BY COLUMN CHROMATOGRAPHY ON A POLYSTYRENE RESIN CONTAINING AN
OPTICALLY ACTIVE COPPER(II) COMPLEX
JACS, 94, 2660, 1972
- 105 72 093 STEIN AM
PREPARATION AND PROPERTIES OF NICOTINAMIDE GUANINE DINUCLEOTIDE
FEBS (FED. EUR. BIOCHEM. SOC.) LTRS, 19, 270, 1971
- 105 72 094 SUGIURA Y TANAKA H
IRON SULFIDE CHELATES OF SOME SULFUR CONTAINING PEPTIDES AS MODEL COMPLEX OF NONHEME IRON PROTEINS
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 335, 1972
- 105 72 095 SUN T LOVINS RE
QUANTITATIVE PROTEIN SEQUENCING USING MASS SPECTROMETRY: USE OF LOW IONIZING VOLTAGES IN MASS
SPECTRAL ANALYSIS OF METHYL AND PHENYLTHIOHYDANTOIN AMINO ACID DERIVATIVES
ANAL. BIOCHEM., 45, 176, 1972
- 105 72 096 SUN T LOVINS RE
METASTABLE TRANSITIONS IN MASS SPECTRA OF METHYL AND PHENYLTHIOHYDANTOIN DERIVATIVES OF AMINO ACIDS
ORG. MASS SPECTRY, 6, 39, 1972
- 105 72 097 SUZUKI T
THE MASS SPECTRA OF THIOHYDANTOINS DERIVED FROM SOME AMINO ACIDS
AGR. BIOL. CHEM. (TOKYO), 36, 1061, 1972
- 105 72 098 TENG NN
BIOPHYSICAL INVESTIGATION OF BIOMOLECULAR STRUCTURE AND INTERACTION, 1. CONFORMATION OF
MONONUCLEOSIDES, 2. CONFORMATION OF FLAVIN ADENINE DINUCLEOTIDE, 3. ENZYME-SUBSTRATE INTERACTION
OF A FLAVOPROTEIN: P-HYDROXYBENZOATE HYDROXYLASE, 4. P(31) RELAXATION STUDY OF ADENOSINE
TRIPHOSPHATE
LBL-1037, THESIS, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., AUG. 1972, 191P
- 105 72 099 TINDALL CG
SYNTHESIS OF FURANOSE SUGARS HAVING TERMINAL VINYL AND CYCLOPROPYL GROUPS AND THEIR CONVERSION INTO
MODIFIED NUCLEOSIDES
THESIS, OHIO STATE UNIV., COLUMBUS, UNIV. MICROFILMS ORDER NO. 70-26,372, DISS. ABS., 31B, 7, 3937,
1971
- 105 72 100 TORCHIA DA
CYCLIC PEPTIDES, 2. SOLUTION CONFORMATIONS OF CYCLO(PROLYLSERYLGLYCYLPROLYLSERYLGLYCYL) FROM NMR, 3.
SOLUTION CONFORMATIONS OF CYCLO(SERYLPROLYLGLYCYLSERLPROLYLGLYCYL) FROM NMR
JACS, 94, 609 AND 616, 1972
- 105 72 101 TORTOREL V BETTONI G HALPERN B
OPTICAL PROPERTIES OF DIMEDONYL DERIVATIVES OF AROMATIC AMINES AND AMINO ACIDS
TETRAHEDRON, 28, 2991, 1972
- 105 72 102 TSCHESCHE H SCHNEIDE M WACHTER E
MASS SPECTRAL IDENTIFICATION AND QUANTIFICATION OF PHENYLTHIOHYDANTOIN DERIVATIVES FROM EDMAN
DEGRADATION OF PROTEINS: CYSTEINE DERIVATIVES
FEBS (FED. EUR. BIOCHEM. SOC.) LTRS, 23, 367, 1972
- 105 72 103 TSERETELI TG
INFLUENCE OF X-RAYS AND MOLYBDENUM AND THEIR JOINT USE ON THE AMINO ACID COMPOSITION OF HARICOT BEAN
LEAVES
SOBESHCH. AKAD. NAUK GRUZ. SSR, 63, NO. 1, 157, 1971 IN GEORGIAN
- 105 72 104 TSUBOYAMA S MCCLOSKEY JA
MASS SPECTROMETRY OF CYCLONUCLEOSIDES
J. ORG. CHEM., 37, 166, 1972
- 105 72 105 UEDA T
A FACILE CONVERSION OF AMINE TO THIONO GROUP IN CERTAIN NUCLEOBASES
TETRAHEDRON LTRS, P2507, 1971
- 105 72 106 UEKARA K HAYAKAWA T
PHOTOOXIDATION OF ADENINE AND ITS NUCLEOTIDES IN THE PRESENCE OF RIBOFLAVIN, 4. PHOTOCHEMICAL
REACTION AND PHOTOPRODUCTS OF NAD, 5. PHOTOCHEMICAL REACTION AND PHOTOPRODUCTS OF 5'-AMP
J. BIOCHEM. (TOKYO), 71, 401 AND 685, 1971
- 105 72 107 VALLE C PASQUIER C BOUIN P CHARTON A
STUDY OF PLASMA AMINO ACIDS IN PIGS, BEFORE AND AFTER LETHAL IRRADIATION
CEA-N-1498, COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES
NUCLEAIRES, DEC. 1971, 18P IN FRENCH
- 105 72 108 VANDS GA DEBRUIN SH JANSSEN LH
HYDROGEN ION TITRATION CURVES OF PROTEINS AS A SOURCE OF STRUCTURAL AND FUNCTIONAL INFORMATION
J. ELECTROANAL. CHEM. INTERFACIAL ELECTROCHEM., 37, 303, 1972, FORMERLY J. ELECTROANAL. CHEM.
- 105 72 109 VERHEYDEN JPH
SYNTHESIS OF SOME PYRIMIDINE 2'-AMINO-2'-DEOXYNUCLEOSIDES
J. ORG. CHEM., 36, 250, 1971
- 105 72 110 VERHEYDEN JPH MOFFATT JG
HALO SUGAR NUCLEOSIDES, 3. REACTIONS FOR THE CHLORINATION AND BROMINATION OF NUCLEOSIDE HYDROXYL
GROUPS
J. ORG. CHEM., 37, 2289, 1972
- 105 72 111 VINOGRAD IP DODONOVA NY
ABSORPTION SPECTRA OF ALIPHATIC AMINO ACIDS AND SIMPLE PEPTIDES IN VACUUM ULTRAVIOLET
OPT. SPECTROSC. USSR (ENGL. TRANS.), 30, 14, 1971
- 105 72 112 VOTSCH W ANDERER FA
N-TERMINAL AMINO ACID SEQUENCE OF SHEEP HEART MYOGLOBIN
Z. NATURFORSCH., 27B, 157, 1972

- 105 72 113 WANG SY HAHN BS FENSELAU C ZAFIRIOU OC
ENRICHMENT OF C(18) IN THE NUCLEIC ACID BASES
COD-3276-3. JOHN HOPKINS MEDICAL INSTITUTIONS, BALTIMORE, MD., 1971. 7P
- 105 72 114 WEIHING RR KORN ED
ACANTHAMOEBA ACTIN. COMPOSITION OF PEPTIDE THAT CONTAINS 3-METHYLHISTIDINE AND A PEPTIDE THAT
CONTAINS N(EPSILON)-METHYLLYSINE
BIOCHEM., 8. 1538, 1972
- 105 72 115 WEINGES K
DIE EXTERNE ASYMMETRISCHE STRECKER SYNTHESE VON ALPHA-METHYL AMINOSAUREN
CHEM. BER., 104. 3594, 1971
- 105 72 116 WEINKAM RJ JORGENSEN EC
ANGIOTENSIN-II ANALOGS. 8. THE USE OF FREE RADICAL CONTAINING PEPTIDES TO INDICATE THE CONFORMATION
OF THE CARBOXYL TERMINAL REGION OF ANGIOTENSIN-II
JACS, 93. 7033, 1971
- 105 72 117 WEISE M EISENBACH GM
QUANTITATIVE DETERMINATION OF AMINO ACIDS IN THE 10(10-14) MOLAR RANGE BY SCANNING MICROSCOPE
PHOTOMETRY
EXPERIENTIA, 28. 245, 1972
- 105 72 118 WILLUMSEN L
HYDROGEN ISOTOPE EXCHANGE IN THE STUDY OF PROTEIN CONFORMATION. A QUANTITATIVE TEST OF AN EXCHANGE
MECHANISM
COMPT. REND. TRAV. LAB. CARLSBERG, 38. NO. 14, 223-95, 1971
- 105 72 119 WINKLER HU BECKEY HD
FIELD DESORPTION MASS SPECTROMETRY OF AMINO ACIDS
ORG. MASS SPECTRY, 6. 655, 1972
- 105 72 120 WOENCKHAUS C
SYNTHESIS AND PROPERTIES OF THE COENZYME ANALOG NICOTINAMIDE-4-METHYL-5-ACETYLIMIDAZOLE DINUCLEOTIDE
Z. NATURFORSCH., 25b. 1252, 1970 IN GERMAN
- 105 72 121 WUNSCH E JAEGER E
CHROMOPHORIC SUBSTRATES. 8. MASS SPECTROMETRIC INVESTIGATIONS OF N-(AZULEN-4-YL)ACETYL PEPTIDES
Z. PHYSIOL. CHEM., 352. 1584, 1971 IN GERMAN
- 105 72 122 YAMANAKA H CHACHIN K OGATA K
STUDIES ON METABOLISM OF FREE AMINO ACIDS DURING MATURATION AND RIPENING OF TOMATO FRUITS. 3.
METABOLISM OF GLUTAMIC ACID AND GAMMA AMINOBUTYRIC ACID DURING RIPENING OF TOMATO FRUITS
JAP. SOC. HORT. SCI. J., 41. 317, 1972
- 105 72 123 YIP KF TSOU KC
A NEW POLYMER SUPPORT METHOD FOR THE SYNTHESIS OF RIBOOLIGONUCLEOTIDE
JACS, 93. 3276, 1971
- 105 72 124 YOSHINO D HAYATSU R ANDERS E
ORIGIN OF ORGANIC MATTER IN EARLY SOLAR SYSTEM. 3. AMINO ACIDS: CATALYTIC SYNTHESIS
GEOCHIM. COSMOCHEM. ACTA, 35. 927, 1971
- 105 72 125 YUKI H TAKETANI Y YAMASHIT S
POLY(BETA AMINO ACIDS). 2. POLYCONDENSATION OF P-NITROPHENYL-BETA-AMINO-BETA-PHENYLPROPIONATE
POLYM. J., 3. 189, 1972
- 105 72 126 ZAK R DOWELL T MARTIN AF RABINOWITZ M
PROTEIN SYNTHESIS IN WORK-OVERLOADED MYOCARDIUM
ACR-1000-380. CHICAGO UNIV. AND ARGONNE CANCER RESEARCH HOSPITAL, CHICAGO, ILL., 1972. 15P.
CONF-720336-1. FROM SYMPOSIUM ON HEART-OVERLOADING, PARIS, FRANCE, MARCH 14, 1972
- 110 72 001 AGAFONOV IL
CALCULATING RELATIVE AMPLIFICATION FACTORS OF SECONDARY ELECTRON AMPLIFIER DURING MASS SPECTROMETRIC
ANALYSIS
Zh. Fiz. Khim., 45. 1246, 1971 IN RUSSIAN
- 110 72 002 ALEKSEEV VA GERAŠIMO VI PAVLOV EP
MODULATION AND STABILIZATION OF RF GENERATOR IN A SYNCHROCYCLOTRON
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1951, 1972
- 110 72 003 BAGRAMOV VG IREMASHV DV LEONTEV NI
HIGH VOLTAGE PULSE GENERATOR
AD-744 154. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 110 72 004 BELANGER VJ
NEW CHARGED PARTICLE DETECTORS
AD-718110. FINAL REPORT, NOVEMBER 1966 - JANUARY 1970. EMR PHOTOELECTRIC, PRINCETON, NEW JERSEY.
MARCH 1970. 75P. AFRL-70-482
- 110 72 005 BERZIN LF
HIGH FREQUENCY TRANSISTOR GENERATOR FOR A UNIPOLAR MASS SPECTROMETER
PRIR. TEKHN. EKSP., NO. 5. 120, 1971 IN RUSSIAN
- 110 72 006 BERZIN LF
MODULATOR OF AN ION SOURCE
PRIR. TEKHN. EKSP., NO. 2. 236, 1972 IN RUSSIAN
- 110 72 007 BISELLO D CENTRO S MULACHIE A
AUTOMATIC APPARATUS FOR HIGH ENERGY EXPERIMENTS WITH ON-LINE COMPUTER
PP 36-45 OF PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INSTRUMENTATION FOR HIGH ENERGY PHYSICS.
OZHELEPOV, V.P. (ED.). JOINT INST. FOR NUCLEAR RESEARCH, MOSCOW, 1971.
- 110 72 008 BRENDLE M BRIEL U
POWER SUPPLY SYSTEM CONTROL
NUCL. INSTRUM. METHODS, 93. 375, 1971
- 110 72 009 DALY NR POWELL RE
ENERGY SELECTIVE ION BEAM INTENSITY MEASURING APPARATUS AND METHOD UTILIZING A SCINTILLATOR TO
DETECT ELECTRONS GENERATED BY THE DEAM
UNITED STATES PATENT 3,579,270. MAY 18, 1971. TO UNITED KINGDOM ATOMIC ENERGY AUTHORITY. PRIORITY
DATE, OCTOBER 31, 1967. GREAT BRITAIN

- 110 72 010 DE SA A MITCHELL JG
INEXPENSIVE DIGITAL METHOD FOR THE MEASUREMENT OF ISOTOPIC RATIOS
J. PHYS. E, 5, 138, 1972
- 110 72 011 EWING GW O'HAVER TC
TOPICS IN CHEMICAL INSTRUMENTATION, 62. LOCK-IN AMPLIFIERS, PARTS 1 AND 2
J. CHEM. EDUC., 49, A131 AND A211, 1972
- 110 72 012 GARMENT R ROSS KJ
LOW COST ELECTROMETER FOR CURRENT RANGE 10(TO-11) - 10(TO-5) AMPS
J. PHYS. E, 4, 707, 1971
- 110 72 013 GLOWACKI S
DIGITAL CHARGE INTEGRATOR
INR-1331, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND, 1971, 21P IN POLISH
- 110 72 014 HARRISON L MORUZZI JL
SIMPLE SWEEP EXPANSION TECHNIQUE FOR MULTICHANNEL ANALYSERS
J. PHYS. E, 4, 542, 1971
- 110 72 015 HEEP W STIEFEL W
CAMAC: HIGH VOLTAGE MODULE TYPE LEM-52/15.1
NP-19004, KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, LABOR FUER ELEKTRONIK UND MESSTECHNIK,
APRIL 1971, 32P, IN GERMAN
- 110 72 016 JONES HC
SOLID STATE AUTOMATIC BEAM POSITIONER FOR MASS SPECTROMETERS
K-1817, OAK RIDGE GASEOUS PLANT, TENN., AUG. 1971, 7P
- 110 72 017 KADAR I
TIME-TO-AMPLITUDE CONVERTER
ATOMKI (AT. KUT. INTEZ.) KOZLEM, 12, NO. 4, 233, 1970 IN HUNGARIAN
- 110 72 018 KARLSSON L
TEMPERATURE STABILIZED WIDEBAND OPERATIONAL AMPLIFIER
NUCL. INSTRUM. METHODS, 96, 387, 1971
- 110 72 019 KAWASHIMA K
NEW TEMPERATURE COMPENSATING METHOD FOR LOGARITHMIC AMPLIFIER
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-17, NO. 5, 25, 1970
- 110 72 020 KODAMA Y MAEDA K
PULSE COUNTING TECHNIQUE AND MASS FILTER
MASS SPECTRY, JAPAN, 20, 197, 1972 IN JAPANESE
- 110 72 021 KUGLER E
SYSTEM FOR ION COLLECTION STUDIES
GIPR-24, CHALMERS TEKNISKA HOGSKOLA, GOTEBOG, SWEDEN, INSTITUTIONEN FOR FYSIK, FEB. 1970, 15P
- 110 72 022 LAURENDEAU NM SHAW AD
PRESET TIMER FOR CONTROL OF MASS SPECTROMETER SCAN FUNCTIONS
REV. SCI. INSTRUM., 43, 1287, 1972
- 110 72 023 MARSHALL JH
ELECTRONICS FOR A SPECTROMETER FOR THE MEASUREMENT OF ENERGETIC ELECTRONS AND ISOTOPES IN THE
INTERPLANETARY MEDIUM

AMERICAN SOC. MECH. ENGRS., NEW YORK, USA, 1970, 12P, FROM SPACE TECHNOLOGY AND HEAT TRANSFER
CONFERENCE, LOS ANGELES, CALIF., USA, JUNE 21, 1970, C.P.E. NO. 82, P24, 1971
- 110 72 024 MARTON L
ADVANCES IN ELECTRONICS AND ELECTRON PHYSICS, VOLUME 30
BOOK, ACADEMIC PRESS INC., NEW YORK, 1971, 352P, 7 CHAPTERS
- 110 72 025 MELLOR DJ WOODCRAFT CP
FIELD GENERATOR FOR A MONOPOLE MASS SPECTROMETER
J. PHYS. E, 4, 1084, 1971
- 110 72 026 MELLOR DJ
VARIABLE FREQUENCY SUPPLY FOR A QUADRUPOLE MASS SPECTROMETER
VACUUM, 21, 607, 1971
- 110 72 027 MIYAKE H MICHIJIMA M
MULTICHANNEL SCALING OF ION CURRENT FOR THE MASS SPECTROMETRY OF VERY SMALL SAMPLES
MASS SPECTRY, JAPAN, 19, 110, 1971 IN JAPANESE
- 110 72 028 MOSKO SW
POWER SUPPLIES FOR COLD CATHODE PENNING DISCHARGE ION SOURCES
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 2, 91, 1972
- 110 72 029 MUGA ML TAYLOR HE
IMPROVED CHARGED PARTICLE DETECTOR
UNITED STATES PATENT 3,567,925, MARCH 2, 1971, TO UNITED STATES ATOMIC ENERGY COMMISSION, FILED JULY
26, 1968
- 110 72 030 NAKAI A
ETL ELECTROMAGNETIC ISOTOPE MASS SEPARATOR, 2. NEW METHOD FOR RECORDING THE BEAM OF ENERGETIC
PARTICLES
DENSHI GIJUTSU SOGO KENKYUSHO IHO, 34, NO. 7, 582, 1970 IN JAPANESE
- 110 72 031 NESSSEL R
NUCLEAR ELECTRONICS: PARALLEL OUTPUT COMMUTATOR FOR CONNECTING A PARALLEL PRINTER TO SEVERAL
MULTICHANNEL ANALYSERS
KERNTECH. ATOMFRAX., 13, NO. 9, 403, 1971 IN GERMAN AND ENGLISH
- 110 72 032 NO AUTHOR
PROCEEDINGS OF THE 5TH INTERNATIONAL SUMMER SCHOOL ON ELECTRONICS AND AUTOMATION, HERCEG-NOVI, JUNE
22-27, 1970
CONF-700647, YUGOSLAV NUCLEAR ENERGY COMMISSION AND YUGOSLAV FEDERAL COUNCIL FOR THE COORDINATION OF
SCIENTIFIC ACTIVITIES, BELGRADE INSTITUT ZA NUKLEARNE NAUKE BORIS KIDRIC, BELGRADE, YUGOSLAVIA, NOV.
1970, 436PAGES

- 110 72 033 NO AUTHOR
1. ELECTRONIC TEST INSTRUMENTATION AND TECHNIQUES. A COMPILATION. 2. ELECTRONIC SIGNAL GENERATORS. A COMPILATION. 3. ELECTRONIC AMPLIFIERS. A COMPILATION
1. NASA-SP-5907(2). 2. NASA-SP-5946(1). 3. NASA-SP-5947(1). NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. WASHINGTON, D.C., 1971. 34P, 25P, AND 22P
- 110 72 034 OTTES J TRADOWSKY K
CAMAC SYSTEM OF COMPUTER GUIDED ELECTRONICS. INTRODUCTION AND PRESENT STATUS
ATOMWIRT., ATOMTECH., 16. 516. 1971 IN GERMAN
- 110 72 035 RICHTER WJ SMITS TI
SIGNAL DESIGN AND ERROR RATE OF AN IMPULSE NOISE CHANNEL
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. COMMUN. TECHNOL., 19. 446. 1971
- 110 72 036 ROTTER H HEISER C FROMM WD BRINCKMANN HF
MICROSECOND BEAM CHOPPING BY PULSING THE DEFLECTOR VOLTAGE OF THE CYCLOTRON
NUCL. INSTRUM. METHODS, 98. 429. 1972
- 110 72 037 RUSSELL RD BELLIS EJ
MASS SPECTROMETER POWER SUPPLIES USING A SILICON CONTROLLED AC SWITCH
MASS SPECTRY. JAPAN, 19. 37. 1971 IN ENGLISH
- 110 72 038 SAMSONOV SP GOROKHOV IM
STABILIZER OF THE CURRENT WHICH HEATS THE TAPES OF AN ION SOURCE IN A MASS SPECTROMETER
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14. 1440. 1971. TRANSLATED FROM PRIK. TEKH. EKSP., 14. NO. 5. 151. 1971
- 110 72 039 SCHNABLE GL EWALD HJ SCHLEGEL ES
MOS INTEGRATED CIRCUIT RELIABILITY
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. RELIAB., 21. 12. 1972
- 110 72 040 SHERMAN C
ION COLLECTION BY A POSITIVE ION MASS SPECTROMETER
AD-740 857. AIR FORCE CAMBRIDGE RESEARCH LABS., L.G. HANSCOM FIELD, MASS. 20P. NTIS
- 110 72 041 SODERSTRAND MA
METHOD FOR DESIGNING FEEDBACK NETWORKS INSENSITIVE TO VARIATIONS IN AMPLIFIER GAINS
SCL-DR-710094. SANDIA LABS., LIVERMORE, CALIF., DEC. 1971. 40P
- 110 72 042 SWOBODA CA DANIELS RE MASCHKE AW
OSCILLOSCOPE WAVEFORM DIGITIZER
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-18. 369. 1971. FROM NATIONAL PARTICLE ACCELERATOR CONFERENCE, CHICAGO, ILL., MARCH 1, 1971. CONF-710308
- 110 72 043 WERNER HW DE GREFFE HA BERG JVD
MEASUREMENT OF SMALL ION CURRENTS WITH AID OF PHOTOMULTIPLIERS
J. MASS SPECTRY, ION PHYS., 8. 459. 1972
- 110 72 044 YEVLANOV YN YERSHOVA VA
EFFECT OF INPUT POTENTIALS ON CHARACTERISTICS OF THE SENSOR OF A RADIO FREQUENCY MASS SPECTROMETER
NT2-26339. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1972
- 115 72 001 ADAMS JAS GASPARINI P
GAMMA-RAY SPECTROMETRY OF ROCKS
BOOK. METHODS IN GEOCHEMISTRY AND GEOPHYSICS SERIES. VOL. 10. AMERICAN ELSEVIER PUBLISHING CO. INC.,
NEW YORK, 1970. 303P
- 115 72 002 ANDERSON NG
NEW BIOANALYTICAL SYSTEMS FOR CLINICAL CHEMISTRY
CONF-720938-1. OAK RIDGE NATIONAL LAB., TENN. 16P. FROM 8TH WORLD CONGRESS OF ANATOMIC AND CLINICAL PATHOLOGY, MUNICH, GERMANY, SEPT. 12. 1972
- 115 72 003 BAZIN J CONTE M PERROT M VAN CRAEYNST A
ELECTRON MICROPROBE ANALYSIS OF HIGHLY RADIOACTIVE MATERIALS
CEA-CONF-1783. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY AND FONTENAY-AUX-ROSES, FRANCE. CENTRES D'ETUDES NUCLEAIRES. 1971. 23P IN FRENCH. CONF-710618-1. FROM 13TH EURATOM HOT LABORATORY MEETING, JUELICH, GERMANY, JUNE 24. 1971
- 115 72 004 BIRKS LS
X-RAY ABSORPTION AND EMISSION. REVIEW
ANAL. CHEM., 44. NO. 5. 557R-62R. 1972. 60 REFERENCES
- 115 72 005 BLACKBURN JA
SPECTRAL ANALYSIS. METHODS AND TECHNIQUES
BOOK. MARCEL DEKKER, INC., 1970. 281P
- 115 72 006 BLASIUS E WAGNER M ZIEGLER K
DETERMINATION OF SULFUR COMPOUNDS IN LIXIVIATION WATER OF BLAST FURNACE SLAGS
ARCH. EISENHUETTENW., 42. 473. 1971
- 115 72 007 BOOTH RA
LABORATORY PROCEDURES FOR THE ANALYSIS OF BLOOD LIPIDS
UCRL-51108. CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB., AUG. 1971. 23P
- 115 72 008 BRUNFELT AO STEINNES E
ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY
BOOK. UNIVERSITETSFORLAGET, OSLO, NORWAY. 1971. 468P. CONF-700908. PROCEEDINGS OF A CONFERENCE HELD AT KJELLER, NORWAY, SEPT. 7-12. 1970
- 115 72 009 BUCK RP
ION SELECTIVE ELECTRODES. SPECTROMETRY, AND POTENTIOMETRIC TITRATIONS
ANAL. CHEM., 44. NO. 5. 270R. 1972
- 115 72 010 BUNSHAH RF
MODERN ANALYTICAL TECHNIQUES FOR METALS AND ALLOYS. PART 2
BOOK. TECHNIQUES OF METALS RESEARCH. VOLUME 3. JOHN WILEY AND SONS, NEW YORK, 1970. 520P. 10 CHAPTERS

- 115 72 011 CHASE DL SGONTZ DL BLOSSER ER HENRY WM
DEVELOPMENT AND EVALUATION OF AN ANALYTICAL METHOD FOR THE DETERMINATION OF TOTAL ATMOSPHERIC MERCURY
PB-210 822. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1972
- 115 72 012 CHERNOBROV SM
ION EXCHANGE METHODS OF SEPARATION IN THE ANALYTICAL CHEMISTRY OF METALS: SURVEY
IND. LAB. USSR (ENGL. TRANS.), 37, 1, 1971. TRANSLATED FROM ZAVOD. LAB., 37, 1, 1971. 130 REFERENCES
- 115 72 013 COBURN JW KAY E
SURFACE ANALYSIS TODAY
RES./DEVELOP., 23, NO. 12, 37, 1972. 45 REFERENCES
- 115 72 014 COJOCARU V ISPAS M
INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS OF SOME GERMAN AND CZECHOSLOVAKIAN ROCK STANDARDS
IPA-NR-34. INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1970. 13P. AND PP 73-7 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.). UNIVERSITETSFORLAGET, OSLO. 1971. CONF-700968
- 115 72 015 CORNU A HUART A MASSOT R NICOTRA C PERILHON P
VARIOUS METHODS OF ANALYTICAL CONTROL FOR STUDY OF ATMOSPHERIC AND WATER POLLUTION AT AN INDUSTRIAL SITE
CEA-CONF-1951. COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE. CENTRE D'ETUDES NUCLEAIRES, OCT. 1971. 17P IN FRENCH. CONF-711133-1. FROM CONFERENCE ON ANTIPOLLUTION TECHNIQUES, GRENOBLE, FRANCE, NOV. 6, 1971
- 115 72 016 EHMANN WD MCKOWN DM MORGAN JW
COINCIDENCE COUNTING APPLIED TO THE ACTIVATION ANALYSIS OF METEORITES AND ROCKS
PP 267-83 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.). UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 115 72 017 FERGUSON JE
ANALYTICAL APPLICATIONS OF ELECTRON OPTICAL INSTRUMENTATION
Y-DA-4818. OAK RIDGE Y-12 PLANT, TENN., AUG. 1972. 11P. CONF-721025-4. FROM 16TH CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 24, 1972
- 115 72 018 FILBY RH HALLER WA SHAM KR
DETERMINATION OF 32 ELEMENTS IN ROCKS BY NEUTRON ACTIVATION ANALYSIS AND HIGH RESOLUTION GAMMA-RAY SPECTROSCOPY
J. RADIOANAL. CHEM., 5, 277, 1970
- 115 72 019 FINSTON HL
RADIOACTIVE AND ISOTOPIC METHODS OF ANALYSIS: NATURE, SCOPE, LIMITATIONS, AND INTERRELATIONS
PP 5385-5425 OF TREATISE ON ANALYTICAL CHEMISTRY. VOL. 9. PT. 1. KOLTHOFF, I.M. (ED.). JOHN WILEY AND SONS INC., NEW YORK, 1971
- 115 72 020 FINSTON HL
NUCLEAR RADIATIONS: CHARACTERISTICS AND DETECTION
PP 5427-5465 OF TREATISE ON ANALYTICAL CHEMISTRY. VOL. 9. PT. 1. KOLTHOFF, I.M. (ED.). JOHN WILEY AND SONS INC., NEW YORK, 1971
- 115 72 021 FITE LE WAINERDI RE
AUTOMATED NUCLEAR ACTIVATION ANALYSIS IN GEOCHEMISTRY
MINER. SCI. ENG., 2, NO. 3, 3-16, 1970
- 115 72 022 GLICK D
ANALYSIS OF BIUGENIC AMINES AND THEIR RELATED ENZYMES
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1971. 350P
- 115 72 023 GOLES GG
INSTRUMENTAL ACTIVATION ANALYSIS OF COLUMBIA RIVER BASALTS AND OF LUNAR ROCKS
PP 45-50 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.). UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 115 72 024 GOUW TH
GUIDE TO MODERN METHODS OF INSTRUMENTAL ANALYSIS
BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS INC., NEW YORK, N.Y., 1970. 475P
- 115 72 025 GROVE EL
ANALYTICAL EMISSION SPECTROSCOPY. PARTS 1 AND 2
BOOKS, ANALYTICAL SPECTROSCOPY SERIES. VOLUME 1. MARCEL DEKKER INC., NEW YORK. PART 1, 1971. 413P. PART 2, 1972. 579P
- 115 72 026 GSCHNEIDNER KA
FUNDAMENTAL PROPERTIES OF RE ELEMENTS AND THEIR IMPLICATIONS ON THE ANALYTICAL CHEMISTRY OF RE MATERIALS
IS-2966. AMES LAB. USAEC, IOWA STATE UNIV., AMES, 1972. 24P. CONF-720839-2. FROM ANALYSIS AND APPLICATION OF RARE EARTH MATERIALS CONFERENCE, KJELLER, NORWAY, AUG. 23, 1972
- 115 72 027 HEADRIDGE JB
APPLICATIONS OF HYDROFLUORIC ACID AND FLUORIDES IN ANALYTICAL CHEMISTRY
CRC CRIT. REV. ANAL. CHEM., 2, NO. 4, 461-90, 1972
- 115 72 028 HERMANN F KIESL W KLUGER F HECHT F
NEUTRON ACTIVATION ANALYTICAL DETERMINATION OF A NUMBER OF TRACE ELEMENTS IN METEORITIC PHASES
MIKROCHIM. ACTA, NO. 2, 225, 1971 IN GERMAN
- 115 72 029 HIRST DM
MODERN METHODS OF GEOCHEMICAL ANALYSIS
NATURE, 236, 288, 1972
- 115 72 030 HUME DN
ANALYTICAL METHODOLOGY FOR ENVIRONMENTAL MEASUREMENTS
COO-2169-1. FINAL PROGRESS REPORT. MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF CHEMISTRY, JULY 1972. 21P
- 115 72 031 JEFFREY PG
CHEMICAL METHODS OF ROCK ANALYSIS
BOOK, PERGAMON PRESS LTD., LONDON, 1970. 514P

- 115 72 032 JOLLY RK WHITE HB
ELEMENTAL ANALYSIS BY ELASTIC SCATTERING
NUCL. INSTRUM. METHODS, 97. NO. 2. XXX, 1971
- 115 72 033 KANAEV NA
USKORENNOE OPREDELENIE REDKOZEMEL'NYKH METALLOV V SPLAVAKH. (ACCELERATED DETERMINATIONS OF RARE
EARTH METALS IN ALLOYS)
BOOK, IZDATEL'STVO METALLURGIYA, MOSCOW, 1971. 223P. 655 REFERENCES
- 115 72 034 KARASEK GW
ANALYTICAL CHEMISTRY AND PROCESS CONTROL
ANAL. LETS. 5. NO. 7. 407, 1972
- 115 72 035 KAWAHARA F
LABORATORY GUIDE FOR IDENTIFICATION OF PETROLEUM PRODUCTS
PB-215 386. FEDERAL WATER POLLUTION CONTROL ADMINISTRATION, CINCINNATI, OHIO, JAN. 1969. 45P
- 115 72 036 KELLY MT
MODERN TRENDS IN RADIOCHEMICAL ANALYTICAL METHODS
PURE APPL. CHEM., 26. 65, 1971. FROM 6TH INTERNATIONAL SYMPOSIUM ON MICROTECHNIQUES, GRAZ, AUSTRIA,
SEPT. 7, 1970
- 115 72 037 KIESL W
DETERMINATION OF TRACE ELEMENTS IN METEORITIC PHASES BY NEUTRON ACTIVATION ANALYSIS
PP 243-51 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.),
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 115 72 038 KOCH W
FUNCTION OF ANALYTICAL CHEMISTRY IN DEVELOPMENT OF MATERIALS
UMSCH. WISS. TECH., 72. NO. 2. 64, 1972 IN GERMAN
- 115 72 039 KOLTHOFF IM ELVING PJ
TREATISE ON ANALYTICAL CHEMISTRY. PART 1. THEORY AND PRACTICE. VOLUME 9
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1971. 546P. 8 CHAPTERS
- 115 72 040 KRUGER P
PRINCIPLES OF ACTIVATION ANALYSIS
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1971. 529P
- 115 72 041 LAW NC FALES IM MILNE GW
IDENTIFICATION OF DRUGS TAKEN IN OVERDOSE CASES
CLIN. TOXICOL., 5. 17, 1972
- 115 72 042 LIEBMAN SA
ORGANIC ANALYSIS TODAY
AMER. LAB., 3. NO. 12, 1971
- 115 72 043 LOBANOV EM
NEITRONNOAKTIVATSIONNYI ANALIZ. (NEUTRON ACTIVATION ANALYSIS)
BOOK, IZDATEL'STVO FAN UZBEKSKOI SSR, TASHKENT, 1971. 192P. 15 PAPERS WITH SELECTED REFERENCES
- 115 72 044 LUNDHOLM B SVENSSON S
GLOBAL ENVIRONMENTAL MONITORING SYSTEM
N73-14379. SWEDISH NATURAL SCIENCE RESEARCH COUNCIL, STOCKHOLM, 1970. 66P. NTIS
- 115 72 045 LUTZ GJ BORENI RJ MADDOCK RS WING J
- ACTIVATION ANALYSIS: A BIBLIOGRAPHY THROUGH 1971
NBS TECHNICAL NOTE 467 - REISSUED AUGUST 1972. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C.
- 115 72 046 LYON WS
ANALYTICAL CHEMISTRY DIVISION
ORNL-4749. OAK RIDGE NATIONAL LAB., TENN., JAN. 1972. 86P. ANNUAL PROGRESS REPORT FOR PERIOD ENDING
SEPTEMBER 30, 1971
- 115 72 047 MASEK V
COMPOSITION OF DUST IN WORK AREAS AND IN THE IMMEDIATE SURROUNDINGS OF FERROUS METALLURGICAL PLANTS
ORNL-TR-2550. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM STAUB, 31. 66, 1971. 8P
- 115 72 048 MASLOV IA IIKNITSKII VA
SPRAVOCNIK PO NEITRONNOMU AKTIVATSIONNOMU ANALIZU. (NEUTRON ACTIVATION ANALYSIS HANDBOOK)
BOOK, IZDATEL'STVO NAUKA LENINGRADSKOE OTDELENIE, LENINGRAD, 1971. 312P
- 115 72 049 MCLAY R PARSONS E
POSSIBLE METHOD FOR IDENTIFICATION OF CANNED FISH BY SEPARATION OF ITS CARBONYL CONSTITUENTS
ANALYST, 97. 376, 1972
- 115 72 050 MEINKE WW TAYLOR JK
ANALYTICAL CHEMISTRY: KEY TO PROGRESS ON NATIONAL PROBLEMS
NBS SPECIAL PUBLICATION 351. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. PROCEEDINGS OF THE 24TH
ANNUAL SUMMER SYMPOSIUM ON ANALYTICAL CHEMISTRY, GAITHERSBURG, MD., JUNE 16, 1971
- 115 72 051 METZ CF WATERBURY GR
ANALYSIS OF NUCLEAR FUEL: A REVIEW
LA-DC-12804. LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1971. 28P. SM-149/32 AND CONF-711107-4. FROM
SYMPOSIUM ON ANALYTICAL METHODS IN THE NUCLEAR FUEL CYCLE, VIENNA, AUSTRIA, NOV. 29, 1971
- 115 72 052 MIKHAILO IA PRIYAKOV AA IZOTOVA NP
HYDROCARBON COMPOSITION OF MOTOR OILS WITH A HIGH INDEX OF VISCOSITY (95-100)
KHIM. TEKHNOL. I DPLIV MASEL. NO. 7. 13, 1972 IN RUSSIAN
- 115 72 053 MIKHAILOV VA
ANALITICHESKAYA KIMIYA NEPTUNIYA. (ANALYTICAL CHEMISTRY OF NEPTUNIUM)
BOOK, IZDATEL'STVO NAUKA, MOSCOW, 1971. 223P. 306 REFERENCES. ANALYTICAL CHEMISTRY OF ELEMENTS
- 115 72 054 MOENKE H
STATUS OF MICROEMISSIION SPECTRAL ANALYSIS WITH SOLID STATE LASERS
ORNL-TR-2603. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM MESSTECHNIK, 10. 13, 1960. 16P
- 115 72 055 MORGAN JW EHMANN WD
14 MEV NEUTRON ACTIVATION ANALYSIS OF ROCKS AND METEORITES
PP 81-97 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.),
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968

- 115 72 056 MORRISON GH
MULTIELEMENT NEUTRON ACTIVATION ANALYSIS OF GEOLOGICAL AND LUNAR MATERIAL USING CHEMICAL GROUP
SEPARATIONS AND HIGH RESOLUTION GAMMA SPECTROMETRY
PP 51-4 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 115 72 057 MYASOEDOVA GV BOLSHAKO LI SAVVIN SB
CHELATE SORBENTS BASED ON STYRENE-DIVINYLBENZENE COPOLYMERS.
Zh. ANAL. KHIM., 26, 2081, 1971 IN RUSSIAN
- 115 72 058 MYASOEDOVA GV ELISEEVA OP SAVVIN SB
CHELATE SORBENTS IN ANALYTICAL CHEMISTRY (A REVIEW)
Zh. ANAL. KHIM., 26, 2172-87, 1971 IN RUSSIAN
- 115 72 059 NO AUTHOR
X-RAY SPECTROMETRY CONFERENCE, CANBERRA, AUSTRALIA, FEBRUARY 11, 1970. ABSTRACTS
METALS AUST., 2, 115-8, 1970. CONF-700226-(ABSTS)
- 115 72 060 NO AUTHOR
1972 ANNUAL BOOK OF ASTM STANDARDS, PART 30
BOOK, MEYDEN AND SONS LTD., SPECTRUM HOUSE, LONDON, 1972. 1644P. 207 STANDARDS
- 115 72 061 OELERT HH
GROUP ANALYSIS FOR HIGH BOILING HYDROCARBON MIXTURES AND PETROLEUM CUTS DEVELOPED ON BASE OF IR,
NMR, AND ELEMENTAL ANALYSIS
Z. ANAL. CHEM., 255, 177, 1971 IN GERMAN
- 115 72 062 PILIPENKO AT
DEVELOPMENT OF ANALYTICAL CHEMISTRY IN 1969 (REVIEW)
IND. LAB. USSR (ENGL. TRANS.), 37, 821-41, 1971. TRANSLATED FROM ZAVOD. LAB., 37, 641-58, 1971. 295
REFERENCES
- 115 72 063 PILIPENKO AT VOLKOVA AI
DEVELOPMENT OF ANALYTICAL CHEMISTRY IN 1970 (REVIEW)
IND. LAB. USSR (ENGL. TRANS.), 38, 485, 1972. TRANSLATED FROM ZAVOD. LAB., 38, NO. 4, 385-407, 1972.
368 REFERENCES
- 115 72 064 POHL H
PROBLEMS OF CHEMICAL ANALYSIS OF PRECIOUS METALS
ITE-64-F, EUROPEAN COMMUNITIES, BRUSSELS, BELGIUM, 1971. 221P IN FRENCH. CONF-711132-4. FROM
SYMPOSIUM ON NUCLEAR ANALYSIS TECHNIQUES IN THE PRODUCTION AND INDUSTRIAL USE OF NOBLE METALS.
BRUSSELS, BELGIUM, NOV. 16, 1971
- 115 72 065 POMEROY J
NASA'S LUNAR SAMPLE ANALYSIS PROGRAM
TRANS. AMER. NUCL. SOC., 15, NO. 1, 137, 1972. FROM 18TH ANNUAL AMERICAN NUCLEAR SOCIETY CONFERENCE,
LAS VEGAS, NEVADA, JUNE 18, 1972. CONF-720607
- 115 72 066 REIN JE
STATUS OF BURNUP MEASUREMENT METHODOLOGY
LA-DC-12808, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1971. 32P. SM-149/40 AND CONF-711107-7. FROM
SYMPOSIUM ON ANALYTICAL METHODS IN THE NUCLEAR FUEL CYCLE, VIENNA, AUSTRIA, NOV. 29, 1971
- 115 72 067 RENDINA JF
ELECTRON SPECTROSCOPY FOR CHEMICAL ANALYSIS
AMER. LAB., 4, NO. 2, 17, 1972
- 115 72 068 RICHARDSON PJ
METHODS FOR DETERMINING BURNUP IN ENRICHED U(235) FUEL IRRADIATED BY FAST REACTOR NEUTRONS
N71-18496, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, CLEVELAND, OHIO, LEWIS RESEARCH CENTER,
JAN. 1971. 20P. NASA-TM-X-2153 AND E-5900
- 115 72 069 RODRIGUEZ HERNAND B
DETERMINATION OF TIN IN MINERALS AND CONCENTRATES
JEN-240, JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN, DIVISION DE MATERIALS, 1972. 9P IN SPANISH
- 115 72 070 ROSE HJ CUTTITA F ANNELL CS
SEMIMICRO ANALYSIS OF APOLLO 12 LUNAR SAMPLES
U.S. GEOL. SURV., PROF. PAP., NO. 750-C, 182, 1971
- 115 72 071 SALTER WJM
MANUAL OF QUANTITATIVE ELECTRON PROBE MICROANALYSIS
BOOK, STRUCTURAL PUBLICATIONS, LONDON, 1970. 156P
- 115 72 072 SCHWARTZ MK
BIOCHEMICAL ANALYSIS
ANAL. CHEM., 44, NO. 5, 9R-32R, 1972. 1075 REFERENCES
- 115 72 073 SHANK RC
ANALYTICAL CHEMISTRY BRANCH
IN-1491, IDAHO NUCLEAR CORP., IDAHO FALLS, JUNE 1971. 169. ANNUAL REPORT, FISCAL YEAR, 1971
- 115 72 074 SHANK RC
ANALYTICAL CHEMISTRY BRANCH ANNUAL REPORT, FISCAL YEAR 1972
ICP-1017, IDAHC CHEMICAL CORP., IDAHO FALLS, IDAHO, OCT. 1972. 225P. NTIS
- 115 72 075 SHOWALTER DL SCHMITT RA
APPLICATIONS OF ACTIVATION ANALYSIS TO GEOCHEMICAL, METEORITIC, AND LUNAR STUDIES
ADVAN. ACTIV. ANAL., 2, 185-219, 1972
- 115 72 076 SIMONEIT BR BURLINGAME AL
SURVEYOR-III. ANALYSES OF PARTS RECOVERED ON APOLLO 12 MISSION (SPACECRAFT)
NATURE, 234, NO. 5326, 210, 1971
- 115 72 077 SMALES AA
PLACE OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY
PP 17-24 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968

- 115 72 078 STEPHEN WI
ANALYTICAL CHEMISTRY IN GREAT BRITAIN
ANAL. LTRS. 5. NO. 3. VII. 1972
- 115 72 079 STROMATT RM
ANALYTICAL CHEMISTRY OF BORON CARBIDE
MEDL-SA-432. HANFORD ENGINEERING DEVELOPMENT LAB., RICHLAND, WASH., SEPT. 1972. 13P. CONF-721025-11.
FROM 16TH CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 24, 1972
- 115 72 080 STRONSKI I
CHROMATOGRAPHIC COLUMN EXTRACTION OF INORGANIC COMPOUNDS
INP-803. INSTITUTE OF NUCLEAR PHYSICS, KRAKOW, POLAND, MAY 1972. 44P IN GERMAN
- 115 72 081 TACHIMORI S AMANO H
INORGANIC ION EXCHANGER. A LITERATURE SEARCH
JAERI-13726. JAPAN ATOMIC ENERGY RESEARCH INST., TOKAI, SEPT. 1969. 36P
- 115 72 082 TOELGYESSY J VARGA S KRIVAN V
NUCLEAR ANALYTICAL CHEMISTRY. 1. INTRODUCTION TO NUCLEAR ANALYTICAL CHEMISTRY
BOOK, UNIVERSITY PARK PRESS, BALTIMORE, 1971. 271P
- 115 72 083 TOKUDA S KAWAHARA H
QUANTITATIVE ANALYSIS BY EPMA FOR THE CONCENTRATION OF ALLOYING ELEMENTS IN THE MICRON AREA OF
TITANIUM ALLOYS
J. JAP. INST. METALS. 35. 541. 1971 IN JAPANESE
- 115 72 084 TORREY RP
GASEOUS ION CHEMISTRY: ANALYTICAL APPLICATIONS
ORO-4045-6. PROGRESS REPORT II, MAY 1971 - FEB. 1972. TENNESSEE STATE UNIV., NASHVILLE, 1972. 6P
- 115 72 085 TURKEVICH A
IN-SITU CHEMICAL ANALYSIS OF EXTRATERRESTRIAL OBJECTS SUCH AS THE MOON AND MARS BY THE USE OF ALPHA
PARTICLES
PP 25-41 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 115 72 086 ULRICH WF STINE KS BLECHA DL HARMS DR
ANALYTICAL INSTRUMENTATION IN THE FORENSIC SCIENCES
MANUAL, BECKMAN INSTRUMENTS INC., FULLERTON, CALIF., 1971. 91P
- 115 72 087 VOGT JR PARKINSON TF CARTER RL
NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH
BOOK, UNIVERSITY OF MISSOURI, COLUMBIA, 1971. 252P. CONF-710818. PROCEEDINGS OF AMERICAN NUCLEAR
SOCIETY TOPICAL MEETING, COLUMBIA, MO., AUGUST 23-24, 1971. 24 PAPERS
- 115 72 088 VON BAECKMANN A AVENHAUS R BEYRICH W KRAEMER R KOCH L
MAINKA E NEUBER J WERTENBACH M WILHELM M
DESTRUCTIVE NUCLEAR MATERIAL ASSAY
AED-CONF-71-100-56. GESELLSCHAFT FUER KERNFORSCHUNG M.B.H., KARLSRUHE, WEST GERMANY AND EUROPEAN
ATOMIC ENERGY COMMUNITY INST. OF TRANSURANIUM ELEMENTS, MAY 1971. 21P. CONF-710901-540. FROM 4TH
INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY, GENEVA, SWITZERLAND, SEPT. 6, 1971
- 115 72 089 WAINERDI RE UKEN EA
MODERN METHODS OF GEOCHEMICAL ANALYSIS
BOOK, PLENUM PUBLISHING CORPORATION, NEW YORK, 1971. 314P. MONOGRAPHS IN GEOSCIENCE. 275 REFERENCES
- 115 72 090 WECHTER MA SHANKS HR CARTER G
USE OF METAL TUNGSTEN BRONZE ELECTRODES IN CHEMICAL ANALYSIS
ANAL. CHEM., 44. 850. 1972
- 115 72 091 WENDLAND WM
AUTOMATION OF THERMAL ANALYSIS INSTRUMENTATION: THERMOGRAVIMETRY AND DIFFERENTIAL THERMAL ANALYSIS
CHIMIA (AARAU), 26. 2. 1972 IN GERMAN
- 115 72 092 YOUNG RS
CHEMICAL ANALYSIS IN EXTRACTIVE METALLURGY
BOOK, GIFFIN, LONDON, 1971. 427P
- 115 72 093 ZWEIG G
CHROMATOGRAPHY. REVIEW
ANAL. CHEM., 44. NO. 5. 42R-79R. 1972. 1636 REFERENCES
- 120 72 001 AGAFONOV IL LARIN NV
MASS SPECTROMETRIC ANALYSIS OF GASES AND VAPOURS OF SPECIAL PURITY
TR. KHIM. KHIM. TEKHNOLO., NO. 3. 97. 1969 IN RUSSIAN
- 120 72 002 AGAFONOV IL
MASS SPECTROMETRIC ANALYSIS OF TRACE IMPURITIES IN GASES
TR. KHIM. KHIM. TEKHNOLO., NO. 1. 81. 1971 IN RUSSIAN
- 120 72 003 BAIKOVA EV BUDNIKOV VF PANCENK GM
CONTENT OF FREE GAS IN PETROLEUM OUTGOING FROM A SEPARATOR
J. INST. HIGHWAY ENGINEERS USSR (ENGL. TRANS.), 18. NO. 10. 60. 1971. TRANSLATED FROM NEFT. KHOZ.,
NO. 9. 60. 1971
- 120 72 004 BALL GW LAWSON G TODD JFJ
APPLICATION OF DYNAMIC MASS SPECTROMETERS TO PROBLEMS IN GAS ANALYSIS (REVIEW)
CHAPTER 3 OF DYNAMIC MASS SPECTROMETRY, VOLUME 3. PRICE, D. (ED.). HEYDEN AND SONS LTD., LONDON,
1972
- 120 72 005 BERRY RS LEHMAN PA
AEROCHEMISTRY OF AIR POLLUTION
ANNU. REV. PHYS. CHEM., 22. XXX. 1971
- 120 72 006 BICKSLER BF
COMBINED STUDY PROGRAM, VOLUME 6. UNDERSEA ATMOSPHERIC ANALYZER FINAL REPORT (MASS SPECTROMETERS)
N71-26607. PERKIN-ELMER CORP., POMONA, CALIF., AEROSPACE DIV., 1971. 136P

- 120 72 007 BREWER LW PARKER DR
GAS CHROMATOGRAPHIC ANALYSIS OF GASES FOUND IN POST SHOT TUNNEL SYSTEMS
SC-RR-71-337. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, JUNE 1971. 24P
- 120 72 008 BUTT RI COTTER JL
ANALYSIS OF THE GASEOUS PRODUCTS ARISING FROM INSULATION COATINGS ON AIRCRAFT CABLING AT ELEVATED
TEMPERATURES
N72-19636 AND AD-736 235. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE,
SPRINGFIELD, VA. 22151. 1971
- 120 72 009 COLE HS LYONS WA
IMPACT OF THE GREAT LAKES ON THE AIR QUALITY OF URBAN SHORELINE AREAS: SOME PRACTICAL APPLICATIONS
WITH REGARD TO AIR POLLUTION CONTROL POLICY AND ENVIRONMENTAL DECISION MAKING
PP 436-63 OF PROCEEDINGS OF THE 15TH CONFERENCE ON GREAT LAKES RESEARCH. INTERNATIONAL ASSOCIATION
FOR GREAT LAKES RESEARCH. ANN ARBOR, MICH., 1972. FROM CONFERENCE HELD AT MADISON, WISCONSIN,
APRIL 5, 1972. CONF-720451
- 120 72 010 COLLIER L
DETERMINATION OF BIS-CHLOROMETHYL ETHER AT THE PPB LEVEL IN AIR SAMPLES BY HIGH RESOLUTION MASS
SPECTROSCOPY
ENVIRON. SCI. TECHNOL., 6, 930, 1972
- 120 72 011 COLOMBO A FRIESSEN R VENERONI R
DETERMINATION OF GASES DISSOLVED IN ORGANIC COOLANTS
EUR-4503. EUROPEAN ATOMIC ENERGY COMMUNITY, ISPRA, ITALY. JOINT NUCLEAR RESEARCH CENTER, 1970. 14P
IN ITALIAN
- 120 72 012 DECKER JA
GAS ANALYSIS WITH HADAMARD-TRANSFORM SPECTROMETRY
ISA (INSTRUM. SOC. AMER.) TRANS., 10, 348, 1971
- 120 72 013 DICKERSON MH
ASSESSMENT OF AIR POLLUTION MODELING AND METEOROLOGY
UCRL-74335. CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., NOV. 1972. 26P. CONF-721208-1.
NTIS
- 120 72 014 EASTON DS CLAUSING RE
OUTGASSING OF NUCLEAR ROCKET FUEL ELEMENTS
J. VAC. SCI. TECHNOL., 7, S116, 1970. FROM 2ND INTERNATIONAL VACUUM METALLURGY CONFERENCE, ANAHEIM,
CALIF. CONF-700640
- 120 72 015 EDWARDS NT VAN HOOK RI RAU F
PORTABLE SYSTEM FOR CONTINUOUS ANALYSIS OF ENVIRONMENTAL CARBON DIOXIDE
ORNL-IBP-71-7. OAK RIDGE NATIONAL LAB., TENN., NOV. 1971. 25P
- 120 72 016 ELFORD MT MILLOY HB
GAS ANALYZER FOR TRACE IMPURITY ANALYSIS
J. VAC. SCI. TECHNOL., 9, 1084, 1972
- 120 72 017 EVANS CD SELKE E
HEADSPACE GAS ANALYSIS OF SALAD OILS BY MASS SPECTROMETRY
J. AMER. OIL CHEM. SOC., 49, 106, 1972
- 120 72 018 GEANKOPLIS CJ
KNUDSEN AND MOLECULAR DIFFUSION OF GASES IN CAPILLARIES AND POROUS SOLIDS OVER LARGE PRESSURE RANGES
COO-1675-10. FINAL REPORT, APRIL 1967 - JANUARY 1972. OHIO STATE UNIV. RESEARCH FOUNDATION,
COLUMBUS, JAN. 1972. 54P
- 120 72 019 CERASIMENKO VV
DETERMINATION OF THE COMPOSITION OF CARBON DIOXIDE IMPURITIES BY A MASS SPECTROMETRIC METHOD
FERMENT. SPIRIT. PRUM., NO. 7, 18, 1972 IN RUSSIAN
- 120 72 020 GUERIN MR
TOBACCO SMOKE ANALYSIS PROGRAM
ORNL-4735. PROGRESS REPORT, SEPT. 1970 - JULY 1971. OAK RIDGE NATIONAL LAB., TENN., OCT. 1971. 74P.
NTIS
- 120 72 021 HARWELL RJ
DESIGN AND DEVELOPMENT OF THE HAZARDOUS GAS DETECTION SYSTEM FOR LAUNCH VEHICLE PROPELLANT LOADING
AND CHECKOUT
N70-18753. NAT. AERON. AND SPACE ADMIN., MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALABAMA. 51P
- 120 72 022 HAYAKAWA M
QUANTITATIVE GAS ANALYSIS BY MASS SPECTROMETER. 3. QUANTITATIVE ANALYSIS OF CARBON MONOXIDE AND
NITROGEN
N72-26102. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 120 72 023 HEALY MCKAY HAC PILBEAM A
AMMONIA AND RELATED ATM POLLUTANTS AT HARWELL. 1. TECHNIQUES FOR HOURLY SAMPLING AND ANALYSIS OF
POLLUTANTS. 2. CORRELATION OF RESULTS OF HOURLY SAMPLING
AERE-R-6231. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, OCT. 1972. 57P. NTIS
- 120 72 024 HOFFMANN D RATHKAMP G
QUANTITATIVE DETERMINATION OF FLUORENES IN CIGARETTE SMOKE AND THEIR FORMATION BY PYROSYNTHESIS
ANAL. CHEM., 44, 899, 1972
- 120 72 025 HOFFMANN D WYNDER EL
SMOKE OF CIGARETTES AND LITTLE CIGARS: ANALYTICAL COMPARISON
SCIENCE, 178, 1197, 1972
- 120 72 026 JUDA J JEDRZEJOWSKI J NOWICKI M
METHODOLOGY OF ATMOSPHERIC AIR POLLUTION MEASUREMENTS. 1. ORGANIZATION OF THE AIR SAMPLING NETWORK
AND ANALYSIS OF RESULTS
TT-70-55097. TRANSLATED FROM PR. STUD. ZAKL. BADAN NAUK. GORN. OKREGU PRZEM. POL. AKAD. NAUK. NO. 1,
1-63, 1969. 40P
- 120 72 027 KENNEDY AS COHEN AS CROKE EJ CROKE KG STORK J

- HURTER AP
AIR POLLUTION-LAND USE PLANNING PROJECT
ANL/ES-7, PHASE I. FINAL REPORT: JULY 1971. ARGONNE NATIONAL LAB., ILL., NOV. 1971. 153P. NTIS
- 120 72 028 LASZLO G
TRACE GAS ANALYSIS BY MOBILITY SEPARATION
AD-746 281. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 120 72 029 LOVELOCK JE SIMMONDS PG
ATMOSPHERIC SAMPLING DEVICES
N72-13306. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1970
- 120 72 030 LUMLEICH H
MASS SPECTROMETRIC ANALYSIS OF GAS COMPOSITION DURING THE FORMATION OF PYROLYTIC CARBON FROM METHANE
Z. ANAL. CHEM., 260, NO. 3, 220, 1972 IN GERMAN
- 120 72 031 MAMANTOV G SHULTS WD
DETERMINATION OF AIR QUALITY
BOOK, PLENUM PRESS, NEW YORK, 1972. 197P. PROCEEDINGS OF AN ACS SYMPOSIUM HELD IN LOS ANGELES, CALIF., APRIL 1-2, 1971
- 120 72 032 MURRMANN RP NAKANO Y SIMPSON TJ LEGGETT DC ANDERSON DM
INFLUENCE OF SOIL ON DETECTION OF BURIED EXPLOSIVES AND TUNNELS BY TRACE GAS ANALYSIS
AD-727 667. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 120 72 033 NEDASHKO VI REYKIN AV SAMARIN AM
DETERMINING GAS CONTENT IN CARBONYL NICKEL
ZAVOD. LAB., 38, 203, 1972 IN RUSSIAN
- 120 72 034 NIKOLSKY VS
USE OF BETA-RAYS SCATTERING FOR ELEMENTAL ANALYSIS OF GASES
Zh. ANAL. KHIM., 26, 2240, 1971 IN RUSSIAN
- 120 72 035 NO AUTHOR
INSTRUMENTATION FOR ENVIRONMENTAL MONITORING: AIR
LBL-11701. CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., MAY 1972. 283P. NTIS
- 120 72 036 NO AUTHOR
OXYGENATES IN AUTOMOTIVE EXHAUST GAS. 3. CARBONYLS AND NONCARBONYLS IN EXHAUSTS FROM SIMPLE HYDROCARBON FUELS
PD-200 804. BUREAU OF MINES, BARTLESVILLE, OKLAHOMA, BARTLESVILLE PETROLEUM RESEARCH CENTER. 22P
- 120 72 037 NO AUTHOR
METHODS OF AIR SAMPLING AND ANALYSIS
BOOK, AMERICAN PUBLIC HEALTH ASSOCIATION, WASHINGTON, D.C., 1972. 497P
- 120 72 038 PARTS LP
INSTRUMENTATION FOR THE DETERMINATION OF NITROGEN OXIDES CONTENT OF STATIONARY SOURCE EMISSIONS. VOLUME 1
PB-204 877. MONSANTO RESEARCH CORP., DAYTON, OHIO. 75P
- 120 72 039 PAUL NC
MASS SPECTROMETRIC ANALYSIS OF COMPLEX GAS MIXTURES
ERDE TN 28. EXPLOSIVES RESEARCH AND DEVELOPMENT ESTAB. TECH. NOTE. 1971. 11P. AD-737 402
- 120 72 040 POWELL KR
SIMPLIFIED GAS ANALYSIS USING AN MS10 MASS SPECTROMETER
VACUUM, 21, 31, 1971
- 120 72 041 RAYNOR GS
URBAN AIR POLLUTION IN A SUBURBAN ENVIRONMENT
BNL-17106. BROOKHAVEN NATIONAL LAB., UPTON, N.Y., 1972. 4P
- 120 72 042 ROSE SA
ULTRAVIOLET SPECTROPHOTOMETRIC AND ATOMIC ABSORPTION SPECTROMETRIC STUDIES OF METHODS FOR THE DETERMINATION OF SULFUR DIOXIDE
THESIS. WAYNE STATE UNIV., DETROIT, MICH., 1971. UNIV. MICROFILMS ORDER NO. 71-29,980; DISS. ABS., 32B, 6, 2570, 1971
- 120 72 043 SCHUBERT R
THERMAL ANALYSIS-MASS SPECTROMETRIC TECHNIQUE FOR IDENTIFYING TRACE IMPURITIES IN GAS SAMPLES
ANAL. CHEM., 44, 2084, 1972
- 120 72 044 SEIZINGER DE DIMITRIA B
1. OXYGENATES IN EXHAUST FROM SIMPLE HYDROCARBON FUELS. 2. OXYGENATES IN AUTOMOTIVE EXHAUST GAS. ESTIMATION OF LEVELS OF CARBONYLS AND NONCARBONYLS IN EXHAUST FROM GASOLINE FUELS
J. AIR POLLUT. CONTR. ASSOC., 22, 47, 1972 AND BUREAU OF MINES REPORT BM-R1-7675, 1972. 33P
- 120 72 045 SHACKELF JF STUOT PL FULRATH RM
SOLUBILITY OF GASES IN GLASS. 2. HE, NE, AND H2 IN FUSED SILICA
J. APPL. PHYS., 43, 1619, 1972
- 120 72 046 SIMMONDS PG SHOEMAKE GR LOVELOCK JE
IMPROVEMENTS IN DETERMINATION OF SULFUR HEXAFLUORIDE FOR USE AS A METEOROLOGICAL TRACER
ANAL. CHEM., 44, 860, 1972
- 120 72 047 SODAL IE
A HIGH PERFORMANCE MINIATURE MASS SPECTROMETER FOR RESPIRATORY GAS ANALYSIS
PP 21-4 OF PROCEEDINGS OF THE 9TH ANNUAL ROCKY MOUNTAIN BIOENGINEERING SYMPOSIUM AND THE 10TH INTERNATIONAL ISA BIOMEDICAL SCIENCES INSTRUMENTATION SYMPOSIUM, VOL. 9, OMAHA, NEBR., USA, MAY 1-3, 1972
- 120 72 048 SOUCHET R SARRAU J VALDENER G
ANALYSIS OF RESIDUAL GASES IN ULTRAHIGH VACUA
VIDE, 27, NO. 159, 125, 1972 IN FRENCH
- 120 72 049 TALAKIN OG GOLOVIN VI DYKHNO NM
MASS SPECTROMETRIC METHOD FOR DETERMINING NITROGEN AND CARBON DIOXIDE IN PURE OXYGEN
Zh. ANAL. KHIM., 26, 1220, 1971 IN RUSSIAN

- 120 72 050 VAGANOVA LD
GAS ANALYZER AND VELOCITY TRANSDUCER OF GAS FLOW USING FLUIDIC ELEMENTS
AD-734 806. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 120 72 051 VESTAL M DAY I JOHNSTON W
IMPROVED INSTRUMENTATION FOR DETERMINATION OF EXHAUST GAS OXYGENATE CONTENT
PB-200 268. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1970
- 120 72 052 VOGH J
CONTRIBUTION OF SOME CARBONYL, PHENOL, AND HYDROCARBON COMPONENTS TO DIESEL EXHAUST ODOR
PB-210 189. NATIONAL TECHNICAL INFORMATION SERVICE, (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1972
- 120 72 053 WACHI FM GILMARTI DE ORO J UPDEGROVE W
DIFFERENTIAL THERMAL ANALYSIS AND GAS RELEASE STUDIES OF APOLLO 11 SAMPLES
ICARUS, 15. NO. 2. XXX, 1971. AD-736 428
- 120 72 054 WHITTLE I
PURIFICATION OF CARBON MONOXIDE
RD-B/N-2065. CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND. BERKELEY NUCLEAR LABS., AUG.
1971. 9P.
- 120 72 055 WOLSKO TD MATTHIES MT KING RF
METHODOLOGY FOR CONTROLLING AIR POLLUTION EPISODES
ANL/ES-14. ARGONNE NATIONAL LAB., ILL., SEPT. 1972. 209P. NTIS
- 120 72 056 YANAGISA S HASHIMOT Y OIKAWA K
MEASUREMENT OF AIR POLLUTION
JAPAN ANALYST, 21. NO. 12. 160R. 1972
- 135 72 001 ADAMS PB
GLASS CONTAINERS FOR ULTRAPURE SOLUTIONS
PP 293-351 OF ULTRAPURITY: METHODS AND TECHNIQUES. ZIEF, M. (ED.). MARCEL DEKKER, INC., NEW YORK.
1972. 46 REFERENCES
- 135 72 002 AHEARN AJ
TRACE ANALYSIS BY MASS SPECTROMETRY
BOOK. ACADEMIC PRESS, NEW YORK. 1972. 476P. 14 CHAPTERS
- 135 72 003 ANSPAUGH LR ROBISON WL MARTIN WH LOWE DA
COMPILED OF PUBLISHED INFORMATION ON ELEMENTAL CONCENTRATIONS IN HUMAN ORGANS IN BOTH NORMAL AND
DISEASED STATES. 1. RAW DATA ORDERED BY ATOMIC NUMBER, SUBORDERED BY ORGAN AND SUBORGAN, LISTING
METHOD OF ANALYSIS, GEOGRAPHICAL SOURCE, AGE, SEX, AND NUMBER OF INDIVIDUALS. 2. DATA SUMMARY
ORDERED BY ATOMIC NUMBER, SUBORDERED BY ORGAN, SUBORGAN, AND GENERAL HEALTH STATE. 3. DATA SUMMARY
ORDERED BY ORGAN AND SUBORGAN, SUBORDERED BY ATOMIC NUMBER AND GENERAL HEALTH STATE
1. UCRL-51013(P11)(REV1), AUGUST 1971. 161P. 2. UCRL-51013(P12), AUGUST 1971. 108P. 3.
UCRL-51013(P13), DECEMBER 1971. 113P. CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB.
- 135 72 004 AXEN U
MASS SPECTROMETRIC DETERMINATION OF PICOMOLE AMOUNTS OF PROSTAGLANDINS E2 AND F2-ALPHA USING
SYNTHETIC DEUTERIUM LABELED CARRIERS
BIOCHEM. BIOPHYS. RES. COMMUN., 45. 519. 1971
- 135 72 005 BAGLIANO G CASTALDO M FERRARIS MM

MEASUREMENT OF TRACE ELEMENTS IN BIOLOGICAL SAMPLES
RT-PRDT-71-39. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, CASACUCCIA, ITALY. CENTRO DI STUDI NUCLEARI.
20P IN FRENCH. CONF-690569-1. FROM 15TH INTERNATIONAL SPECTROSCOPIC CONFERENCE, MADRID, SPAIN. MAY
26. 1969
- 135 72 006 BATTISTON U MOAURO A
DETERMINATION OF MICRO AMOUNTS OF ELEMENTS CONTAINED IN NATURAL WATER BY MEANS OF NEUTRON ACTIVATION
ANALYSIS
RT-CHI-(70)33. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY, OCT. 1970. 36P IN ITALIAN.
CONF-700717-1. FROM CONFERENCE ON ANALYTICAL AND PHYSICAL CHEMISTRY OF WATER, BORMIO, ITALY, JULY
5. 1970
- 135 72 007 BECKNELL DE MARSH RH ALLIE W
USE OF ANION EXCHANGE RESIN LOADED PAPER IN DETERMINATION OF TRACE MERCURY IN WATER BY NEUTRON
ACTIVATION ANALYSIS
ANAL. CHEM., 43. 1230. 1971
- 135 72 008 BHAGAT SK FUNK WH FILBY RH
TRACE ELEMENT ANALYSIS OF ENVIRONMENTAL SAMPLES BY NEUTRON ACTIVATION ANALYSIS
J. WATER POLLUT. CONTR. FED., P2414. 1972
- 135 72 009 BIGGIN HC MORGAN WD
FAST NEUTRON ACTIVATION ANALYSIS OF MAJOR BODY ELEMENTS
J. NUCL. MED., 12. NO. 12. XXX. 1971
- 135 72 010 BLOSSER ER HENRY WM
IDENTIFICATION AND ESTIMATION OF IONS, MOLECULES, AND COMPOUNDS IN PARTICULATE MATTER COLLECTED FROM
AMBIENT AIR
PB-201 738. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 135 72 011 BROWN R SEARL T KING W DIETZ W KELLIHER J
RAPID METHODS OF ANALYSIS FOR TRACE QUANTITIES OF POLYNUCLEAR AROMATIC HYDROCARBONS AND PHENOLS IN
AUTOMOBILE EXHAUST, GASOLINE, AND CRANKCASE OIL
PB-219 025/4. ESSO RESEARCH AND ENGINEERING CO., LINDEN, N.J., DEC. 1971. 56P
- 135 72 012 BUDINGER TF FARWELL JR SMITH AR BICHEL H
HUMAN TISSUE TRACE ELEMENT DETECTION BY NEUTRON ACTIVATION WITHOUT CHEMICAL SEPARATION
INT. J. APPL. RADIAT. ISOTOP., 23. NO. 2. 49. 1972
- 135 72 013 CALI JP
SRM'S AND VERIFICATION OF COMMERCIAL STANDARDS
CLIN. CHEM., 18. 172. 1972

- 135 72 014 CATON GM OLIVEIRA DP OEN CJ ULRIKSON GU
MERCURY IN THE ENVIRONMENT: AN ANNOTATED BIBLIOGRAPHY
ORNL-EIS-71-8. OAK RIDGE NATIONAL LAB., TENN., MAY 1972. 271P
- 135 72 015 CAWSE PA PIERSON DM
AN ANALYTICAL STUDY OF TRACE ELEMENTS IN THE ATMOSPHERIC ENVIRONMENT
AERE-R-7134. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, OCT. 1972. 39P. NTIS
- 135 72 016 COGHLAN WA CLAUSING RE
CATALOG OF CALCULATED AUGER TRANSITIONS FOR THE ELEMENTS
ORNL-TM-3576. OAK RIDGE NATIONAL LAB., TENN., NOV. 1971. 570P
- 135 72 017 COLVIN CA
TRACE ANALYSES AND NONDESTRUCTIVE ANALYSES FOR SAFEGUARDS APPLICATIONS AND ENVIRONMENTAL SAMPLES
ARH-SA-145. ATLANTIC RICHFIELD HANFORD CO., RICHLAND, WASH., OCT. 1972. 5P. CONF-721025-12. FROM
15TH CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 24, 1972
- 135 72 018 CUNNOLD DM
TRANSPORT PROCESSES AND TRACE CONSTITUENTS IN STRATOSPHERE
COO-2249-1. PROGRESS REPORT FOR THE PERIOD MAY 1972 - NOV. 1972. MASSACHUSETTS INST. OF TECH.,
CAMBRIDGE, DEPT. OF METEOROLOGY, SEPT. 1972. 49P.
- 135 72 019 CUSHING CE RANCITELLI LA
TRACE ELEMENT ANALYSES OF COLUMBIA RIVER WATER AND PHYTOPLANKTON
NORTHWEST SCI., 46. NO. 2. 115. 1972
- 135-72 020 DE GOEIJ JJM
DETERMINATION OF MERCURY IN SAMPLES FROM DUTCH ENVIRONMENT
IRI-133-71-17. INTERUNIVERSITAIR REACTOR INSTITUUT, DELFT, NETHERLANDS, 1971. 21P. CONF-710818-4.
FROM MEETING ON NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH, COLUMBIA, MO., AUG. 23, 1971
- 135 72 021 DE GOEIJ JJM HOUTMAN JPW TJOE PS KOEMAN JH
MERCURY DISTRIBUTION LEVELS OBSERVED IN VARIOUS ECOSYSTEMS AS DETERMINED BY NEUTRON ACTIVATION
ANALYSIS
IRI-133-72-4. INTERUNIVERSITAIR REACTOR INSTITUUT, DELFT, NETHERLANDS, 1971. 27P
- 135 72 022 DE GOEIJ JJM HOUTMAN JPW
MERCURY IN THE ENVIRONMENT
CHEM. WEEKBL., 67. 13. MARCH 5, 1971 IN DUTCH. IRI-133-71-01
- 135 72 023 EBERHARDT LL
SAMPLING FOR RADIONUCLIDES AND OTHER TRACE SUBSTANCES
BNWL-SA-4362. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH. 24P. CONF-720715-1. FROM ADVANCED
INSTITUTE ON STATISTICAL ECOLOGY CONFERENCE, UNIVERSITY PARK, PA., JULY 15, 1972
- 135 72 024 ECKELMEY KH
ON USE OF SINGLE SURFACE INACT ANALYSIS
METALL. TRANS., 3. 743, 1972
- 135 72 025 FIARMAN S SCHNEIER G
PROTON ACTIVATION ANALYSIS FOR TRACE ELEMENTS
ENVIRON. SCI. TECHNOL., 6. 79, 1972
- 135 72 026 FOLSON TR HODGE VF WONG KM KISHORE R GUINN VP
SOME TRACE ELEMENT CONCENTRATION VARIATIONS OBSERVED IN MARINE ORGANISMS THAT SUGGEST CAUTION IN
SAMPLING

TID-26198. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF. SOLEDAD LAB., 1972. 14P
- 135 72 027 FOLSON TR HODGE VF WONG KM HANSEN N
REPORT OF ANALYSES OF WATER SAMPLES SUBMITTED TO SCRIPPS, NOVEMBER 1971, FOR THE LAKE MICHIGAN
INTERCALIBRATION/INTERCOMPARISON PROGRAM (EIIP)
TID-26199. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF. SOLEDAD LAB., APRIL 1972. 7P
- 135 72 028 FOLSON TR HODGE VF WONG KM
1972 RESULTS OF THE CONTINUED INTERCOMPARISONS OF METHODS FOR ANALYSES OF CESIUM, COBALT, SILVER,
AND OTHER RADIONUCLIDES SPONSORED BY IAEA. 2. ANALYSIS OF DRIED SEAWeed SAMPLES COLLECTED BY
BRITISH FISHERIES RADIOBIOLOGICAL LABORATORY
TID-26206. SCRIPPS INST. OF OCEANOGRAPHY, LA JOLLA, CALIF. SOLEDAD LAB., MAY 1972. 3P
- 135 72 029 FONSELIV S
SOME TRACE METAL ANALYSES IN THE MEDITERRANEAN, THE RED SEA, AND THE ARABIAN SEA
AD-725 983. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1968
- 135 72 030 GILE JD
ZINC, COPPER, AND MANGANESE IN RAZOR CLAM, SILIOUA PATULA
RLO-2227-T-12-34. THESIS. OREGON STATE UNIV., CORVALLIS, JUNE 1972. 63P
- 135 72 031 GOMDA S
ACTIVATION ANALYSIS OF ARSENIC, COPPER, AND ANTIMONY IN SEA WATER
BULL. CHEM. SOC. JAPAN, 45. 1704, 1972
- 135 72 032 GOODE GC HOWARD CM WILSON AR
SOME APPLICATIONS OF NEUTRON ACTIVATION FOR ANALYSIS OF HUMAN BONE
ANAL. CHIM. ACTA, 58. 363, 1972
- 135 72 033 GOULDING FS JAKIJEVIC JM
TRACE ELEMENT ANALYSIS BY X-RAY FLUORESCENCE
UCRL-20625. CALIFORNIA UNIV., BERKELEY. LAWRENCE RADIATION LAB., MAY 1971. 54P
- 135 72 034 GRAY D MCKOWN DM KAY M
DETERMINATION OF TRACE ELEMENT LEVELS IN ATMOSPHERIC POLLUTANTS BY INSTRUMENTAL NEUTRON ACTIVATION
ANALYSIS
IEEE (INST. ELECT. ELECTRON. ENG.). TRANS. NUCL. SCI., 19. 194, 1972
- 135 72 035 HENKE G MOELLMANN H ALFFS H
COMPARATIVE STUDIES ON THE CONCENTRATION OF VARIOUS TRACE ELEMENTS IN SPECIFIC AREAS OF THE HUMAN
BRAIN USING NEUTRON ACTIVATION ANALYSIS
Z. NEUROL., 199. 283, 1971 IN GERMAN

- 135 72 036 HOEGDAHL O
REVIEW OF THE APPLICATION OF ACTIVATION ANALYSIS IN OCEANOGRAPHY
PP 301-10 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 135 72 037 HOFMEYER PK
SOME EMISSION SPECTROGRAPHIC TRACE ELEMENT DATA FOR REFERENCE SILICATE MATERIALS
CHEM. GEOL., 9, 23, 1972
- 135 72 038 HUCKABEE JW CARTAN FO KENNINGTON GS
ENVIRONMENTAL INFLUENCE ON TRACE ELEMENTS IN HAIR OF 15 SPECIES OF MAMMALS
ORNL-TM-3747, OAK RIDGE NATIONAL LAB., TENN., JUNE 1972, 38P
- 135 72 039 ISHIZAKE A FUKUSHIMA M SADAMOTO M
DISTRIBUTION OF CADMIUM IN BIOLOGICAL MATERIALS. 2. CADMIUM AND ZINC CONTENTS OF FOODSTUFFS
ORNL-TR-2555, TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM NIPPON EISEIGAKU ZASSHI, 25,
207-22, 1970, 32P
- 135 72 040 JERVIS RE TIEFENBACH B
TRACE MERCURY DETERMINATIONS IN A VARIETY OF FOODS
PP 188-96 OF NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH, VOGT, JAMES R. (ED.). UNIV. OF MISSOURI,
COLUMBIA, MO., 1971
- 135 72 041 JONES EA WATSON AE DIXON K
SEPARATION AND DETERMINATION OF TRACE AND MINOR AMOUNTS OF INDIVIDUAL RARE EARTHS IN SILICATES
NIM-1428, NATIONAL INST. FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA, MAY 1972, 17P
- 135 72 042 KENNEDY EJ RUCH RR GLUSKOTER HJ SKIMP NF
ENVIRONMENTAL STUDIES OF MERCURY AND OTHER ELEMENTS IN COAL AND LAKE SEDIMENTS AS DETERMINED BY
NEUTRON ACTIVATION ANALYSIS
PP 205-15 OF NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH, VOGT, JAMES R. (ED.). UNIV. OF MISSOURI,
COLUMBIA, MO., 1971
- 135 72 043 KOLLER L
PROBLEMS IN QUANTITATIVE SPECTRAL ANALYSIS OF TRACES OF RARE EARTHS. 2.
MAGY. KEM. FOLY., 77, 335, 1971
- 135 72 044 KOVACS M BELEZNAY E ANDRASI A ERDELYVARI I
GAMMA SPECTROMETRIC DATA PROCESSING FOR ENVIRONMENTAL SAMPLE ANALYSIS
KFKI-72-51, MAGYAR TUDOMANYOS AKADEMIA KOZPONTI FIZIKAI KUTATO INTEZETE, BUDAPEST, HUNGARY, 1972,
15P
- 135 72 045 KOZUKA H
ACTIVATION ANALYSIS OF HUMAN HEAD HAIR. 5. ANALYSIS OF HUMAN HEAD HAIR IN A SIMULATED CASE BY
NEUTRON ACTIVATION
EISEI KAGAKU (J. HYG. CHEM.), 17, NO. 5, 327, 1971 IN JAPANESE
- 135 72 046 KUNZENDORF H
INSTRUMENTAL PROCEDURE TO DETERMINE FE, RB, SR, Y, ZR, NB, AND MO IN ROCK POWDERS BY Si(Li) X-RAY
SPECTROMETRY
J. RADIOANAL. CHEM., 9, 311, 1971
- 135 72 047 LANDIS DA GOULDING FS JARRETT BV
SOME ASPECTS OF X-RAY FLUORESCENCE SPECTROMETERS FOR TRACE ELEMENT ANALYSIS
NUCL. INSTRUM. METHODS, 101, 127, 1972
- 135 72 048 LEDDICOTTE GW
ACTIVATION ANALYSIS OF BIOLOGICAL TRACE ELEMENTS (REVIEW)
METHODS BIOCHEM. ANAL., 19, 345-434, 1971, 1027 REFERENCES
- 135 72 049 LEDDICOTTE GW
NUCLEAR ANALYSIS METHODS FOR PROBLEMS IN ENVIRONMENTAL SCIENCE: DETECTION AND QUANTITATION OF TRACE
ELEMENTS AND SUBSTANCES
DEVELOP. APPL. SPECTROSC., 9, 417, 1971, FROM DEVELOPMENTS IN APPLIED SPECTROSCOPY SYMPOSIUM,
CHICAGO, ILL., JUNE 2, 1970
- 135 72 050 LIVINGSTON HD THOMPSON G
TRACE ELEMENT CONCENTRATIONS IN SOME MODERN CORALS
LIMNOL. OCEANOGR., 16, 786, 1971
- 135 72 051 LUNDE G
ACTIVATION ANALYSIS OF TRACE ELEMENTS IN LIPIDS WITH EMPHASIS ON MARINE OILS
J. AMER. OIL CHEM. SOC., 48, 517, 1971
- 135 72 052 LYON WS BATE LC EMERY JF
ENVIRONMENTAL POLLUTION: USE OF NEUTRON ACTIVATION ANALYSIS TO DETERMINE THE FATE OF TRACE ELEMENTS
FROM FOSSIL FUEL COMBUSTION IN THE ECOLOGICAL CYCLE
CONF-720413-1, OAK RIDGE NATIONAL LAB., TENN., 1971, 14P, FROM SYMPOSIUM ON NUCLEAR ACTIVATION
TECHNIQUES IN THE LIFE SCIENCES, LJUBLJANA, YUGOSLAVIA, APRIL 10, 1972, NTIS
- 135 72 053 MAGOS L CLARKSON TW
METHOD FOR DETERMINING TOTAL, INORGANIC, AND ORGANIC MERCURY IN NORMAL AND EXPOSED POPULATIONS
UR-3490-60, ROCHESTER UNIV., NEW YORK, DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS, 1971, 18P
- 135 72 054 MAIENTHAL EJ TAYLOR JK
POLAROGRAPHIC METHODS IN DETERMINATION OF TRACE ELEMENTS IN WATER
ADVAN. CHEM. SER., NO. 73, 172-82, 1968, FROM SYMPOSIUM ON TRACE INORGANICS IN WATER, MIAMI BEACH,
FLA., APRIL 10, 1967
- 135 72 055 MALLORY EC
THIOACETAMIDE PRECIPITATION PROCEDURE FOR DETERMINING TRACE ELEMENTS IN WATER
ADVAN. CHEM. SER., NO. 73, 281-95, 1968, FROM SYMPOSIUM ON TRACE INORGANICS IN WATER, MIAMI BEACH,
FLA., APRIL 10, 1967
- 135 72 056 MANGELSDORF PC CHANG WM
ANALYSIS OF SEA WATER BY DIFFERENCE CHROMATOGRAPHY
COO-3119-1, SUMMARY OF PROGRESS, 1972, WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS. DEPT. OF
CHEMISTRY, 1972, 27P

- 135 72 057 MATSUI S GLOYNA EF
RADIOACTIVITY TRANSPORT IN WATER: BIOLOGICAL ACCUMULATION OF MERCURIC AND METHYL MERCURY BY
CHLORELLA PYRENOIDOSA
ORD-490-22. TEXAS UNIV., AUSTIN. CENTER FOR RESEARCH IN WATER RESOURCES. APRIL 1972. 251P
- 135 72 058 MILLER GE GRANT PM KISHORE R
MERCURY CONCENTRATIONS IN MUSEUM SPECIMENS OF TUNA AND SWORDFISH
SCIENCE, 175. NO. 4026. 1121. 1972
- 135 72 059 MYERS WG WHITE FA
MASS SPECTROMETRY AND FISSION TRACK ANALYSIS IN NUCLEAR ENVIRONMENTAL MEASUREMENTS
PP 38-43 OF NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH. VOGT, JAMES R. (ED.). UNIV. OF MISSOURI,
COLUMBIA, MO., 1971
- 135 72 060 NADKARNI RA EHMANN WD
TRACE ELEMENT DETERMINATION IN BIOLOGICAL MATERIALS BY NEUTRON ACTIVATION ANALYSIS
PP 407-19 OF TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH. 4. HEMPHILL, DELBERT D. (ED.). UNIV. OF
MISSOURI, COLUMBIA, 1971
- 135 72 061 NO AUTHOR
6TH INTERNATIONAL SYMPOSIUM ON MICROTECHNIQUES, HELD IN GRAZ, AUSTRIA. SEPTEMBER 7-11, 1970
PURE APPL. CHEM., 26. NO. 1. 1-74, 1971. CONF-700915. 5 PAPERS
- 135 72 062 O'GORMAN JV SUHR NH WALKER PL
DETERMINATION OF MERCURY IN SOME AMERICAN COALS
APPL. SPECTROSC., 26. 44. 1972
- 135 72 063 O'TOOLE JJ CLARK RG MALABY KL TRAUGER DL
ENVIRONMENTAL TRACE ELEMENT SURVEY AT A HEAVY METALS REFINING SITE
PP 172-85 OF NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH. VOGT, JAMES R. (ED.). UNIV. OF MISSOURI,
COLUMBIA, MO., 1971
- 135 72 064 OOSTEROM MG DAS HA
DETERMINATION BY NEUTRON ACTIVATION ANALYSIS OF ALKALI AND OTHER TRACE ELEMENTS IN ULTRAMAFIC ROCKS
PP 455-9 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, ARILD O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968
- 135 72 065 PEETERS E HENRY MF CASTIAUX MA
RADIOACTIVE AND METALLIC (COPPER AND ZINC) POLLUTANTS IN THE SCHELDT ESTUARY (IN WATER, SEDIMENT,
AND SUSPENDED MATTER)
PP 635-47 OF RAPID METHODS FOR MEASURING RADIOACTIVITY IN THE ENVIRONMENT. INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA, 1971 IN FRENCH. STI/PUB-289 AND CONF-710705
- 135 72 066 PEMSLER JM RAPPERHO EJ
ANALYSIS OF METALS FOR TRACE IMPURITIES BY SEALED CELL ATOMIC ABSORPTION
ANAL. CHIM. ACTA, 58. 15. 1972
- 135 72 067 PERKINS RW RANCITELLI LA
NUCLEAR TECHNIQUES FOR TRACE ELEMENT AND RADIONUCLIDE MEASUREMENTS IN NATURAL WATERS
BNWL-SA-3993. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., JULY 1971. 32P. CONF-710818-1. FROM
MEETING ON NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH, COLUMBIA, MO., AUG. 23, 1971
- 135 72 068 ROBERTSON OE
CONTAMINATION PROBLEMS IN TRACE ELEMENT ANALYSIS AND ULTRAPURIFICATION
PP 207-53 OF ULTRAPURITY: METHODS AND TECHNIQUES. ZIEF, M. (ED.). MARCEL DEKKER, INC., NEW YORK,
1972. 71 REFERENCES
- 135 72 069 ROSS W HANSEN L SCRIBNER W
TRACE ANALYSIS FOR METALS IN AEROSPACE MATERIALS BY GAS CHROMATOGRAPHY
AD-739 865. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 135 72 070 RYABOVA OZ GLADKOV MI ETELIS LS
SPECTRAL ANALYSIS OF RESIDUAL CONTENTS OF RARE EARTH ELEMENTS IN STEEL
IND. LAB. USSR (ENGL. TRANS.), 37. 1710. 1971
- 135 72 071 SANSONI B
ANALYTICAL METHODS IN ENVIRONMENTAL CONTROL
GSF-S-188. GESELLSCHAFT FUER STRAHLEN UND UMWELTFORSCHUNG M. B. H., NEUHEBERG BEI MUNICH, WEST
GERMANY. INSTITUT FUER STRAHLENSCHUTZ, JULY 1972. 25P IN GERMAN. INIS. AVAILABLE FROM INIS
SECTION, INTERNATIONAL ATOMIC ENERGY AGENCY, P.O. BOX 590 A-1011, VIENNA, AUSTRIA
- 135 72 072 SCHMIDT M
REGISTRIERUNG DER CHLORIDTEILCHENKONZENTRATION DER LUFT AN DER WESTKUSTE VON DANEMARK
PURE APPL. GEOPHYS., 97. 219. 1972
- 135 72 073 SHAN KR FILBY RH HALLER WA
DETERMINATION OF TRACE ELEMENTS IN PETROLEUM BY NEUTRON ACTIVATION ANALYSIS. 1. DETERMINATION OF NA,
S, CL, K, CA, V, MN, CU, GA, AND BR. 2. DETERMINATION OF SC, CR, FE, CO, NI, ZN, AS, SE, SB, EU,
AU, HG, AND U
J. RADIOANAL. CHEM., 6. 185 AND 413. 1970
- 135 72 074 SILKER WB PERKINS RW RIECK HG
SAMPLER FOR CONCENTRATING RADIONUCLIDES FROM NATURAL WATERS
OCEAN ENG., 2. 49. 1971
- 135 72 075 SKOGERBOE RK MORRISON GM
TRACE ANALYSIS: ESSENTIAL ASPECTS
PP 603B-61 OF TREATISE ON ANALYTICAL CHEMISTRY, VOL. 9, PT. 1. KOLTHOFF, I.M. (ED.). JOHN WILEY AND
SONS INC., NEW YORK, 1971. 30 REFERENCES
- 135 72 076 SOBOL SP BARRON RP KRAM TC
THE USE OF NMR AND MASS SPECTRAL DATA IN THE FORENSIC LABORATORY
J. ASSOC. OFF. ANAL. CHEM., 55. 866. 1972
- 135 72 077 SOCHA AJ MASUMOTO E WILLARDS R
ANALYTICAL TECHNIQUES FOR DETERMINATION OF TRACE IMPURITIES IN GROUP-II-VI COMPOUNDS
AD-728 219. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1970

- 135 72 078 STRAIN WM PORIES WJ FLYNN A HILL OA
TRACE ELEMENT NUTRITURE AND METABOLISM THROUGH HEAD HAIR ANALYSIS
PP 383-97 OF TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH, VOLUME V, HEMPHILL, D.D. (ED.), UNIV. OF
MISSOURI, COLUMBIA, MO., 1971. FROM 5TH ANNUAL CONFERENCE HELD IN COLUMBIA, JUNE 29, 1971.
CONF-710645
- 135 72 079 STROSS FH BADLEY JH
DETERMINATION OF PURITY
PP 5863-5932 OF TREATISE ON ANALYTICAL CHEMISTRY, VOL. 9, PT. 1, KOLTHOFF, I.M. (ED.), JOHN WILEY
AND SONS INC., NEW YORK, 1971
- 135 72 080 THOMAS WA
INDICATORS OF ENVIRONMENTAL QUALITY. PROCEEDINGS OF A SYMPOSIUM HELD DURING THE AAAS MEETING IN
PHILADELPHIA, PENNSYLVANIA, DECEMBER 26-31, 1971
BOOK, ENVIRONMENTAL SCIENCE RESEARCH, VOLUME 1, PLENUM PUBLISHING CORP., NEW YORK, 1972, 283P.
CONF-711222, 21 PAPERS
- 135 72 081 TUREKIAN KK
TRACE ELEMENTS IN NATURAL WATERS
YALE-2912-34, ANNUAL PROGRESS REPORT, DEC. 1970 - DEC. 1971, YALE UNIV., NEW HAVEN, CONN. DEPT. OF
GEOLOGY AND GEOPHYSICS, AUG. 1971, 61P
- 135 72 082 WALKER DM MCCLAIN ME LEDDIGOTTE GW
SEMICONDUCTOR DETECTOR OPTIMIZATION FOR TRACE MERCURY ANALYSIS IN ENVIRONMENTAL SAMPLES
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 1, 184, 1972
- 135 72 083 WEISS HV CROZIER TE
DETERMINATION OF MERCURY IN SEAWATER BY RADIOACTIVATION
ANAL. CHIM. ACTA, 58, 231, 1972
- 135 72 084 WILLIAMSON TG HARRISON WW
NAA AND SSMS FOR FORENSIC USES
TRANS. AMER. NUCL. SOC., 14, NO. 1, 107, 1971, FROM 17TH ANNUAL MEETING OF THE AMERICAN NUCLEAR
SOCIETY, BOSTON, MASS., JUNE 13, 1971. CONF-710606
- 135 72 085 ZIEF M SPEIGHTS R
ULTRAPURITY: METHODS AND TECHNIQUES
BOOK, MARCEL DEKKER, INC., NEW YORK, 1972, 714P, 22 CHAPTERS
- 140 72 001 ANNO T SAKAI Y
GENERAL FORMULAS FOR THE EVALUATION OF THE VALENCE-ORBITAL IONIZATION POTENTIALS FOR THE
 $K(2)L(8)3S(2)3P(6)3D(\text{ALPHA})4S(\text{BETA})4P(\text{GAMMA})$ OR THE $1S(2)2S(N)2P(N)$ ATOMS AND IONS
J. CHEM. PHYS., 56, 922, 1972
- 140 72 002 BLASSE G
A RELATION BETWEEN CHARGE TRANSFER SPECTRA AND IONIZATION POTENTIALS
J. INORG. NUCL. CHEM., 33, NO. 12, xxx, 1971
- 140 72 003 BOLDUC E QUEMENER JJ MARMET P
ELECTRON IMPACT EXCITATION OF $3S3P(6)NL$ STATES OF AR
CAN. J. PHYS., 49, 3095, 1971, AD-740 016, LAVAL UNIV., QUEBEC, 1971
- 140 72 004 BOYD RJ WHITEHEA MA
AN SCF-MO-CNDO STUDY OF IONIZATION POTENTIALS AND ORBITAL ENERGIES BY CNDO/BW THEORY
J. CHEM. SOC. A, NO. 22, xxx, 1971
- 140 72 005 BURSEY MM ROGERSON PF
ELECTRON IMPACT IONIZATION POTENTIALS OF SUCCESSIVELY SUBSTITUTED ACETYLACONATES OF RHODIUM(III)
INORG. CHEM., 10, 1313, 1971
- 140 72 006 CARSKY P ZAHRAANI R
CONJUGATED RADICALS. 13. GROUND STATE PROPERTIES: IONIZATION POTENTIALS, HEATS OF ATOMIZATION, AND
SPIN DENSITIES
COLLECT. CZECH. CHEM. COMMUN., 37, 541, 1972
- 140 72 007 COCKSEY BJ ELAND JH DANBY CJ
EFFECT OF ALKYL SUBSTITUTION ON IONISATION POTENTIAL
J. CHEM. SOC. B, P790, 1971
- 140 72 000 DINYA Z
CALCULATION OF INFRARED $C=O$ STRETCHING FREQUENCIES AND IONIZATION POTENTIALS OF 4-SUBSTITUTED
ACETOPHENONES
MAGY. KÉM. FOLY., 77, 557, 1971 AND ACTA CHIM. ACAD. SCI. HUNG., 72, 323, 1972.
- 140 72 009 DISTEFANO G FOFFANI A INNORTA G PIGNATARO S
ELECTRON IMPACT IONIZATION POTENTIALS OF SOME MANGANESE, CHROMIUM, AND TUNGSTEN ORGANOMETALLIC
DERIVATIVES
J. MASS SPECTRY, ION PHYS., 7, 383, 1971, 17 REFERENCES
- 140 72 010 EDLEN B
IONIZATION POTENTIALS OF ATOMS AND IONS CONTAINING ONE TO TEN ELECTRONS
PP 133-45 OF TOPICS IN MODERN PHYSICS, BRITTON, WESLEY E. (ED.), COLORADO ASSOCIATED UNIV. PRESS,
BOULDER, COLO., 1971, 30 REFERENCES
- 140 72 011 EDLEN B
SECOND ORDER PERTUBATION TERM IN IONIZATION POTENTIALS OF THREE TO TEN ELECTRON SYSTEMS
PHYS. REV. LETT., 28, 943, 1972
- 140 72 012 ELAND JH
PHOTOELECTRON SPECTRA AND IONIZATION POTENTIALS OF AROMATIC HYDROCARBONS
J. MASS SPECTRY, ION PHYS., 9, 214, 1972
- 140 72 013 FASS RA KENDALL SG
APPEARANCE POTENTIAL MEASUREMENTS BY MASS SPECTROMETRY: A PHYSICAL CHEMISTRY EXPERIMENT
J. CHEM. EDUC., 48, 545, 1971
- 140 72 014 FEDOROV VS
DETERMINING HUECKEL PARAMETERS OF MOLECULAR ORBITAL METHOD ACCORDING TO IONIZATION POTENTIALS
ZH. STRUKT. KHIM., 13, 492, 1972

- 140 72 015 FINNEY CD HARRISON AG
THIRD DERIVATIVE METHOD FOR DETERMINING ELECTRON IMPACT ONSET POTENTIALS
J. MASS SPECTRY, ION PHYS., 9, 221, 1972
- 140 72 016 FLESCH GD SVEC HJ
RAPID DETERMINATION OF ONSET POTENTIALS
J. MASS SPECTRY, ION PHYS., 9, 106, 1972
- 140 72 017 FLESCH GD JUNK GA SVEC HJ
IONIZATION EFFICIENCY DATA AND FRAGMENTATION MECHANISMS FOR FERROCENE, NICKELCENE, AND RUTHENOCENE
J. CHEM. SOC., DALTON TRANS., P1102, 1972
- 140 72 018 FROST DC SANDHU JS
IONIZATION POTENTIALS OF ETHYLENE AND SOME METHYL SUBSTITUTED ETHYLENES AS DETERMINED BY
PHOTOELECTRON SPECTROSCOPY
INDIAN J. CHEM., 9, 1105, 1971
- 140 72 019 GEY E
HALBEMPIRISCHE MO-LCAO BERECHNUNGEN AN SUBSTITUIERTEN STYROLLEN. 1. NMR VERSCHIEBUNGEN, DIPOLMOMENT
IONISIERUNGSPOTENTIALE UND ELEKTROSENSPEKTREN
J. PRAKT. CHEM., 312, 823, 1970
- 140 72 020 GIESSNER BG MEISELS GG
ON NUMERICAL METHODS FOR IMPROVEMENT OF APPEARANCE POTENTIAL MEASUREMENTS
J. CHEM. PHYS., 55, 2269, 1971
- 140 72 021 GRABER P WEIL KG
MASS SPECTROMETRIC INVESTIGATIONS OF SILVER HALIDES. 1. MASS SPECTRUM, APPEARANCE POTENTIALS, AND
FRAGMENTATION SCHEME OF SILVER CHLORIDE
BER. BUNSENES. PHYS. CHEM., 76, 410, 1972
- 140 72 022 GRÖNNEBERG T UNDHEIM K
MASS SPECTROMETRY OF ONIUM COMPOUNDS. 10. ON EVAPORATION OF PYRIDINIUM-3-OXIDES. IONIZATION
POTENTIAL MEASUREMENTS
ORG. MASS SPECTRY, 6, 255, 1972
- 140 72 023 GUTTENPL JB COHEN SG
TRIPLET ENERGIES, REDUCTION POTENTIALS, AND IONIZATION POTENTIALS IN CARBONYL DONOR, PARTIAL CHARGE
TRANSFER INTERACTIONS. PARTS 1 AND 2
1. JACS, 94, 4040, 1972. 2. TETRAHEDRON LETS, P2163, 1972
- 140 72 024 HAISSINSKY M
SOME PROBABLE PHYSICO-CHEMICAL PROPERTIES OF ELEMENTS 104 TO 107
RADIOCHEM. RADIOANAL. LETS, 8, NO. 2, 107, 1971 IN FRENCH
- 140 72 025 HASHMALL JA MILLS BE SHIRLEY DA
COMPARISON OF VALENCE SHELL AND CORE IONIZATION POTENTIALS OF ALKYL IODIDES
JACS, 94, 4445, 1972
- 140 72 026 HERZBERG G JÜNGEN C
RYBERG SERIES AND IONIZATION POTENTIAL OF H₂ MOLECULE
J. MOL. SPECTROSC., 41, 425, 1972
- 140 72 027 HILDENBRAND DL
FIRST IONIZATION POTENTIALS OF MOLECULES BF₃, SiO₂, AND GeO₂
J. MASS SPECTRY, ION PHYS., 7, 255, 1971
- 140 72 028 HVISTENDAHL G UNDHEIM K
IONIZATION POTENTIALS OF STABLE FREE RADICALS
ARK. KEM., 1, NO. 3, 123, 1971
- 140 72 029 HVISTENDAHL G UNDHEIM K
MASS SPECTROMETRY OF ONIUM COMPOUNDS. 9. ON THE EVAPORATION OF ANILINIUM OXIDES. IONIZATION
POTENTIAL MEASUREMENTS. 10. ON THE EVAPORATION OF PYRIDINIUM-3-OXIDES. IONIZATION POTENTIAL
MEASUREMENTS
ORG. MASS SPECTRY, 6, 217-29, 1972
- 140 72 030 IVERSON AA RUSSELL BR
A MEDIUM RESOLUTION STUDY OF ALLENE IN VACUUM ULTRAVIOLET. 1. SPECTRA AND A PRELIMINARY IONIZATION
POTENTIAL
SPECTROCHIM. ACTA, 20A, 447, 1972
- 140 72 031 KELLY R PADLEY PJ
USE OF A ROTATING SINGLE PROBE IN STUDIES OF IONIZATION OF ADDITIVES TO PREMIXED FLAMES. 4. THE
ALKALINE EARTHS AND URANIUM
TRANS. FARADAY SOC., 67, 1384, 1971
- 140 72 032 LARAMORE GE
THRESHOLD SINGULARITIES IN APPEARANCE POTENTIAL SPECTROSCOPY
PHYS. REV. LETS, 27, 1050, 1971
- 140 72 033 LARAMORE GE
PLASMON EMISSION IN APPEARANCE POTENTIAL SPECTROSCOPY
SOLID STATE COMMUN., 10, 85, 1972
- 140 72 034 LEVITT BW LEVITT LS
INDUCED EFFECTS OF MOLECULAR IONIZATION POTENTIALS. 3. PRIMARY SECONDARY AND TERTIARY ALIPHATIC
AMINES
ISRAEL J. CHEM., 9, 71, 1971
- 140 72 035 LEVITT LS LEVITT BW PARKANYI C
INDUCTIVE EFFECTS ON MOLECULAR IONIZATION POTENTIALS. 5. HYDROGEN SULFIDE AND ALIPHATIC THIOETHERS.
6.
ISRAEL J. CHEM., 9, 711, 1971 AND TETRAHEDRON, 28, 3369, 1972
- 140 72 036 LEWIN GF
EMPIRICAL FORMULAE FOR IONIZATION POTENTIALS OF ELEMENTS
PHYS. LETS, 39A, 121, 1972

- 140 72 037 LIEBMAN JF
COMMENT ON PAPER 'OXYGEN MONOFLUORIDE (OF, (2)P1) HARTREE-FOCK WAVEFUNCTION, BINDING ENERGY, IONIZATION POTENTIAL, ELECTRON AFFINITY, DIPOLE AND QUADRUPOLE MOMENTS, AND SPECTROSCOPIC CONSTANTS. COMPARISON OF THEORETICAL AND EXPERIMENTAL
J. CHEM. PHYS., 56, 4242, 1972
- 140 72 038 LOGANSEN LV
INTERPRETATION OF LOWER POTENTIALS OF BENZENE IONIZATION
ZH. FIZ. KHIM., 45, 1803, 1971 IN RUSSIAN
- 140 72 039 LOSSING FP EMMEL RH GIESSNER BG MEISELS GG
MANIFESTATION OF AUTOIONIZING STATES IN THE IONIZATION OF KRYPTON BY ELECTRON IMPACT
J. CHEM. PHYS., 54, 5431, 1971
- 140 72 040 LOSSING FP
FREE RADICALS BY MASS SPECTROMETRY. 44. IONIZATION POTENTIALS AND BOND DISSOCIATION ENERGIES FOR CHLORO AND FLUOROMETHYL RADICALS
BULL. SOC. CHIM. BELGES, 81, 125, 1972
- 140 72 041 MEISELS GG GIESSNER BG
THRESHOLD BEHAVIOR AND DETERMINATION OF APPEARANCE POTENTIALS FROM SECOND DIFFERENTIAL IONIZATION EFFICIENCIES
J. MASS SPECTRY, ION PHYS., 7, 489, 1971
- 140 72 042 MELTON CE NEECE GA
CROSS SECTIONS FOR CAPTURE OF LOW ENERGY ELECTRONS IN H2O VAPOR
J. CHEM. PHYS., 55, 4665, 1971
- 140 72 043 MILLER LL NORDBLOM GD MAYEDA EA
SIMPLE, COMPREHENSIVE CORRELATION OF ORGANIC OXIDATION AND IONIZATION POTENTIALS
J. ORG. CHEM., 37, 916, 1972
- 140 72 044 MITRA RP KAPOOR KL
EFFECT OF METHYL AND HYDROXYL SUBSTITUENTS ON PI-ELECTRONIC SPECTRA AND IONIZATION POTENTIAL OF P-BENZOQUINONE
INT. J. QUANTUM CHEM., 6, 387, 1972
- 140 72 045 MOSER CM NESBET RK
ATOMIC BETHE-GOLDSTONE CALCULATIONS OF TERM SPLITTINGS, IONIZATION POTENTIALS, AND ELECTRON AFFINITIES FOR O, C, N, O, F, AND NE
PHYS. REV., 4A, 1336, 1971
- 140 72 046 MUSKET RG
DIRECT COMPARISON OF AUGER ELECTRON SPECTROSCOPY WITH APPEARANCE POTENTIAL SPECTROSCOPY
J. VAC. SCI. TECHNOL., 9, 603, 1972
- 140 72 047 NISHIDA S
IONIZATION POTENTIALS OF CYCLOPROPYLETHYLENES
J. CHEM. SOC., CHEM. COMMUN., 1114, 1972
- 140 72 048 PARK RL HOUSTON JE
APPEARANCE POTENTIAL SPECTROSCOPY ON AN AUSTERE BUDGET
SURFACE SCI., 26, 664, 1971
- 140 72 049 PAUZAT F RIDARD F LEVY B
AB INITIO CALCULATION OF LOWEST IONIZATION POTENTIAL AND TRANSITION ENERGIES OF METHANE
MOL. PHYS., 23, 1163, 1972
- 140 72 050 PIGNATARO S MANCINI V INNORTA G
IONIZATION ENERGIES AND RING ORBITAL INTERACTION IN DIARYLMETHANES AND DIARYLETHANES
Z. NATURFORSCH., 27A, 634, 1972
- 140 72 051 PIHLAJA K JALONEN J
APPEARANCE POTENTIALS DETERMINED BY THE ELECTRON IMPACT METHOD AS AN ANALYTICAL AID IN THE EVALUATION OF CONFORMATIONAL ENERGIES AND CLARIFICATION OF RING CONFORMATION. 1. APPEARANCE POTENTIALS OF THE (M-R)(+) IONS FORMED IN THE PRIMARY FRAGMENTATION OF STEREO-ISOMERIC 1,3-DIOXANS. A DIRECT ROUTE TO CONFORMATIONAL ENERGIES
ORG. MASS SPECTRY, 5, 1363, 1971
- 140 72 052 PORTER FT FREEDMAN MS
EXPERIMENTAL ATOMIC-ELECTRON BINDING ENERGIES IN FERMIUM
PHYS. REV. LETT., 27, 293, 1971
- 140 72 053 QUEMENER JJ PAQUET C MARMET P
NATURAL LINE SHAPES RESOLVED IN THE IONIZATION YIELD OF HE(+) BELOW THE N=2 THRESHOLD
PHYS. REV., 4A, 494, 1971. AD-734 198. LAVAL UNIV., QUEBEC, 1971
- 140 72 054 RAFI MUSTAFA M
IONIZATION POTENTIALS OF SOME N-HETEROCYCLIC COMPOUNDS
MOL. PHYS., 21, 359, 1971
- 140 72 055 STEC WJ MORGAN WE ALBRIDGE RG VAN WAZER JR
MEASURED BINDING ENERGY SHIFTS OF THE '3P' AND '3D' ELECTRONS IN ARSENIC COMPOUNDS
INORG. CHEM., 11, 219, 1972. 28 REFERENCES
- 140 72 056 TAJIMA S
EFFECT OF THE SHIELD VOLTAGE ON APPEARANCE POTENTIAL MEASUREMENTS USING A MASS SPECTROMETER
BULL. CHEM. SOC. JAPAN, 45, 931, 1972 IN ENGLISH
- 140 72 057 TAJIMA S TSUCHIYA T
EFFECTS OF REPELLER VOLTAGE AND SHIELD VOLTAGE ON APPEARANCE POTENTIAL MEASUREMENTS BY ELECTRON IMPACT
MASS SPECTRY, JAPAN, 20, 117, 1972 IN JAPANESE
- 140 72 058 TRACY JC
APPEARANCE POTENTIAL SPECTROSCOPY
J. APPL. PHYS., 43, 4164, 1972
- 140 72 059 TSUDA S YOKOHATA A UMABA T
MEASUREMENT OF NEGATIVE IONS FORMED BY ELECTRON IMPACT. 8. IONIZATION EFFICIENCY CURVES OF NEGATIVE IONS FROM METHYL AND ETHYL CYANIDES
BULL. CHEM. SOC. JAPAN, 44, 1486, 1971

- 140 72 060 VOGT J PASCUAL C
INVERSE CONVOLUTION APPLIED TO EVALUATION OF ELECTRON IMPACT IONIZATION EFFICIENCY CURVES
J. MASS SPECTRY, ION PHYS., 9, 441, 1972
- 140 72 061 WORLEY SD
COMMENTS ON IONIZATION POTENTIALS OF SOME N-HETEROCYCLIC COMPOUNDS
MOL. PHYS., 23, 185, 1972
- 140 72 062 ZARETSKII VI SADOVSKA VL WULFSON NS
MASS SPECTROMETRY OF STEROID SYSTEMS. 21. APPEARANCE AND IONIZATION POTENTIALS FOR STEREOISOMERS OF
D-HOMOESTRANE SERIES
ORG. MASS SPECTRY, 5, 1179, 1971
- 150 72 001 ALEKSANKIN MM GOL'DENFEL'D IV
AUTOION MASS SPECTRA OF ORGANIC SUBSTANCES. ALDEHYDES
TEOR. EKSP. KHIM., 7, 370, 1971
- 150 72 002 ASSOUS R
AUTOIONIZED LINES IN ARC SPECTRA OF LEAD AND BISMUTH
J. OPT. SOC. AMER., 62, 544, 1972
- 150 72 003 BAHR JL BLAKE AJ CARVER JH
AUTOIONIZATION IN DIATOMIC MOLECULES STUDIED BY PHOTOELECTRON SPECTROSCOPY
J. QUANT. SPECTROSC. RAD. TRANSFER, 11, 1839, 1971
- 150 72 004 BAHR JL BLAKE AJ CARVER JH
PHOTOELECTRON SPECTROSCOPY FOR SOME AUTOIONIZED STATES OF MOLECULAR OXYGEN
J. QUANT. SPECTROSC. RAD. TRANSFER, 11, 1853, 1971
- 150 72 005 BALASHOV VV LIPOVETSKI SS PAVLICHENKOV AV POLYUDOV AN SENASHENKO VS
AUTOIONIZING STATES IN HELIUM LIKE IONS
VESTN. MOSK. UNIV., SER. III. FIZ. ASTRON., 12, NO. 1, 65, 1971 IN RUSSIAN
- 150 72 006 BALASHOV VV LIPOVETSKI SS SENASHENKO VS
ON POSSIBILITY OF INVESTIGATING ATOMIC AUTOIONIZING STATES IN COINCIDENCE EXPERIMENTS
PHYS. LETT., 39A, 103, 1972
- 150 72 007 BARDLEY JN BHATIA AK TEMKIN A
RESONANCE QUASI-PROJECTION OPERATORS. CALCULATION OF AUTOIONIZATION STATES OF HE(-)
N71-29899, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 150 72 008 BELY D SCHWARTZ SB VAL JL
AUTOIONIZATION STRUCTURE IN IONIZATION OF BA(+) BY ELECTRON IMPACT
J. PHYS. B, 4, NO. 11, XXX, 1971
- 150 72 009 BERRY HG DESEQUELLES J DUFAY M
LIFETIME MEASUREMENTS OF AUTOIONIZING LEVELS BY THE BEAM-FOIL TECHNIQUE
PHYS. LETT., 36A, 237, 1971
- 150 72 010 BHATIA AK
D AUTOIONIZATION STATES OF HE AND IONIC H
N72-25647, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 150 72 011 BHATIA KS JONES WE

AUTOIONIZED SERIES IN ARC SPECTRUM OF ARSENIC
CAN. J. PHYS., 49, 1773, 1971
- 150 72 012 BORDENAVE-MONTES A BENOIT-CATTIN P
EXCITATION OF THE AUTOIONIZATION LEVELS OF HE BY COLLISION WITH A HEAVY PARTICLE FOR MEDIUM ENERGIES
(10 TO 130 KEV)
COMPT. REND., SER. B, 272, 1473, 1971 IN FRENCH
- 150 72 013 BORDENAVE-MONTES A BENOIT-CATTIN P
ASYMMETRIC PEAKS IN ELECTRON SPECTRUM FOR H(+)-HE COLLISIONS
PHYS. LETT., 36A, 243, 1971
- 150 72 014 CARTER VL HUDSON RD BREIG EL
AUTOIONIZATION IN UV PHOTOABSORPTION OF ATOMIC CALCIUM
PHYS. REV., 4A, 821, 1971
- 150 72 015 CHUNG KT CHEN I
(1)P AUTOIONIZATION STATES OF HE IN ELASTIC SCATTERING REGION
PHYS. REV. LETT., 28, 783, 1972
- 150 72 016 DALGARNO A DRAKE GF
ENERGY MAXIMIZATION METHOD FOR AUTOIONIZING STATES
CHEM. PHYS. LETT., 11, 509, 1971
- 150 72 017 DMITRIEV IS TEPLOVA YA NIKOLAEV VS
AUTOIONIZATION OF LITHIUM LIKE PARTICLES IN A FAST ION BEAM TRAVERSING A THIN FILM
Zh. EKSP. TEOR. FIZ., 61, 1359, 1971 IN RUSSIAN
- 150 72 018 FAISAL FHM
AUTOIONIZATION OF H2 NEAR THRESHOLD
PHYS. REV., 4A, 1396, 1971
- 150 72 019 FIMPLE WR
THEORETICAL BOUNDS OF ENERGY LEVELS AND MEAN LIFETIMES OF AUTOIONIZING STATES OF HELIUM
THESIS, UNIV. OF CONNECTICUT, STORRS, 1970. 224P. UNIV. MICROFILMS ORDER NO. 71-15,980
- 150 72 020 FUNG AAC
ATOMIC SYSTEMS WITH A CLOSED CORE PLUS TWO ELECTRONS
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, 1971. 106P. UNIV. MICROFILMS ORDER NO. 72-3487
- 150 72 021 FUNG AC MATESE JJ
AUTOIONIZATION STATES OF LI(-) AND NA(-)
PHYS. REV., 5A, 22, 1972

- 150 72 022 GOL'DENFELD IV
AUTOION MASS SPECTRA OF ORGANIC SUBSTANCES. EPOXY COMPOUNDS
THEOR. EXP. CHEM. USSR (ENGL. TRANS.), 7. NO. 4. 550. 1971
- 150 72 023 HOLOIEN E MIDTAL J
TESTS OF MULTICONFIGURATION ENERGY BOUND METHOD FOR FESHBACH TYPE AUTOIONIZATION STATES OF TWO
ELECTRON ATOMS. 2. APPLICATION TO HE STATES BETWEEN HIGHER THRESHOLDS
J. PHYS. B. 4. 32. 1971
- 150 72 024 MILLER WH SLOCOMB CA SCHAEFER HF
MOLECULAR AUTOIONIZATION LIFETIMES AND CROSS SECTIONS FOR PENNING IONIZATION: NUMERICAL RESULTS FOR
HE(STAR)(1S2S(3)S) + H(1S(2)S)
J. CHEM. PHYS., 56. 1347. 1972
- 150 72 025 MORRISON JD TRAEGER JC
ELECTRON IMPACT INDUCED AUTOIONIZATION OF THE OUTER S ELECTRONS IN THE RARE GASES
J. MASS SPECTRY. ION PHYS., 7. 391. 1971
- 150 72 026 PERKINS JF
VARIATIONAL BOUND METHODS FOR AUTOIONIZATION STATES. 2. THREE-ELECTRON ATOMS
PHYS. REV., 4A. 489. 1971
- 150 72 027 RAMAKER DE
(N(12))(1)S AUTOIONIZING STATES OF HELIUM
THESIS. UNIV. OF IOWA. IOWA CITY. 1971. 281P. UNIV. MICROFILMS ORDER NO. 71-22,079
- 150 72 028 RAMAKER DE SCHRADER DM
MULTICHANNEL CONFIGURATION-INTERACTION THEORY APPLIED TO THE (NL(2))(1)S AUTOIONIZING STATES OF
HELIUM
J. CHEM. PHYS., 55. 471. 1971
- 150 72 029 SCHWENGERDT FD RUDD ME
STRONG, QUASIPERIODIC DEPENDENCE OF AUTOIONIZATION SHAPE PARAMETERS ON PROJECTILE ENERGY IN H(+) +
HE COLLISIONS
PHYS. REV. LETT. 28. 127. 1972
- 150 72 030 SELLIN IA PEGG DJ BROWN M
SPECTRA OF AUTOIONIZATION ELECTRONS EMITTED BY FAST METASTABLE BEAMS OF HIGHLY STRIPPED OXYGEN AND
FLUORINE IONS
PHYS. REV. LETT. 27. 1108. 1971
- 150 72 031 SIMON B
CONVERGENCE OF TIME DEPENDENT PERTURBATION THEORY FOR AUTOIONIZING STATES OF ATOMS
PHYS. LETT. 36A. 23. 1971
- 150 72 032 STOLTERFOHT N
ASYMMETRIC AUTOIONIZATION LINES IN ELECTRON SPECTRA OF HELIUM PRODUCED BY 300 KEV PROTONS
PHYS. LETT. 37A. 117. 1971
- 150 72 033 TEMKIN A BHATIA AK BARDLEY JN
RESONANCE QUASI-PROJECTION OPERATORS. CALCULATION OF (2)S AUTOIONIZATION STATE OF HE(-)
PHYS. REV., 5A. 1663. 1972
- 150 72 034 WICKES JBP ROSS KJ NEWELL WR
AUTOIONIZATION SPECTRUM OF CADMIUM VAPOUR BY ELECTRON IMPACT
J. PHYS. B. 4. L26. 1971
- 150 72 035 YARIS R BOEHM R
MANY BODY THEORY OF AUTOIONIZATION
J. CHEM. PHYS., 55. 1802. 1971
- 165 72 001 ABSAR I VAN WAZER JR
AB INITIO LCAO-MO-SCF STUDY OF BONDING IN SIMPLEST PHOSPHORUS FLUORIDE
JACS. 94. 2382. 1972
- 165 72 002 BALDUCCI G DE MARIA G GUIDO M
DISSOCIATION ENERGY OF FEO
J. CHEM. PHYS., 55. 2596. 1971
- 165 72 003 BALDUCCI G DE MARIA G GUIDO M
MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF EUCCIG
J. CHEM. PHYS., 56. 1431. 1972
- 165 72 004 BALDUCCI G DE MARIA G GUIDO M
DISSOCIATION ENERGY OF TIO AND TIO2 GASEOUS MOLECULES
J. CHEM. PHYS., 56. 3422. 1972
- 165 72 005 BERKOWITZ J
EXPERIMENTAL POTENTIAL ENERGY CURVES FOR X(2)PI AND (2)SIGMA(+) STATES OF HF(+)
CHEM. PHYS. LETT. 11. 21. 1971
- 165 72 006 BOND ST
MASS SPECTRA AND BONDING IN GROUP-VI METAL PENTACARBONYL COMPOUNDS
THESIS. KENT STATE UNIV., KENT, OHIO. UNIV. MICROFILMS ORDER NO. 72-9247. DISS. ABS. INTERNAT., 32B.
9. 5080. 1972
- 165 72 007 CARDIN DJ KEEPIE SA LAPPERT MF
BINUCLEAR ORGANOMETALLIC COMPOUNDS. 3. METAL-METAL BOND DISSOCIATION ENERGIES, RAMAN, AND INFRARED
SPECTRA FOR SERIES (PI-CSHS)(CO)3M(1)M(2)ME3. (M(1) = CR, MC
J. CHEM. SOC. A. P2262. 1971
- 165 72 008 COCKE DL GINGERICH KA
MASS SPECTROMETRIC DETERMINATION OF THE BOND DISSOCIATION ENERGIES OF THE MOLECULES CEPD AND CEC2
J. PHYS. CHEM., 76. 2332. 1972
- 165 72 009 COMPANIO AL HSIA YP
A MOLECULAR ORBITAL STUDY OF AUTOIONIZATION ENERGIES OF PHOSPHORUS FLUORIDE MOLECULES AND IONS
J. MOL. STRUCT., 14. 117. 1972

- 165 72 010 COMPANIO AL
MOLECULAR ORBITAL STUDY OF BOND ENERGIES IN COMPOUNDS OF SULFUR AND FLUORINE
THEOR. CHIM. ACTA, 25, 268, 1972
- 165 72 011 COPSEY DN MURRELL JN STAMPER JG
DISSOCIATION ENERGY OF F₂ AND STABILITY OF ALKALI PERFLUORIDES
MOL. PHYS., 21, 193, 1971
- 165 72 012 CORNET R
CONSTANTES VIBRATIONNELLES ET ENERGIES DE DISSOCIATION DES ETATS X(1)SIGMA(+) ET A(1)PI DE SiO
BULL. CL. SCI., ACAD. ROY. BELG., 57, 1069, 1971
- 165 72 013 CZIRA JT MALTSEV AK
ELECTRON IMPACT STUDIES ON SOME ORGANODICHLOROGERMANES. MASS SPECTRA AND BOND DISSOCIATION ENERGIES
J. ORGANOMET. CHEM., 40, 311, 1972
- 165 72 014 DE MARIA G MALASPIN L PIACENTE V
DISSOCIATION ENERGY OF GASEOUS TLBI MOLECULE
J. CHEM. PHYS., 56, 1978, 1972
- 165 72 015 EBERHART JG
EVIDENCE FOR LONG RANGE REPULSIVE ATOMIC INTERACTIONS IN METALS FROM BOND ENERGY CALCULATIONS
MET. TRANS., 2, 3007, 1971
- 165 72 016 FERGUSON KC WHITTLE E
KINETICS OF VAPOUR PHASE BROMINATION OF CYCLANES AND N-BUTANE. C-H BOND DISSOCIATION ENERGIES IN
CYCLANES
TRANS. FARADAY SOC., 67, NO. 9, XXX, 1971
- 165 72 017 FERGUSON KC WHITTLE E
KINETICS OF REACTION BETWEEN HBR AND CF₃BR. DETERMINATION OF BOND DISSOCIATION ENERGY D(CF₃-BR)
J. CHEM. SOC., FARADAY TRANS., 1, 68, 295, 1972
- 165 72 018 FERGUSON KC WHITTLE E
KINETICS OF REACTION BETWEEN HBR AND C₂F₅BR. DETERMINATION OF BOND DISSOCIATION ENERGY D(C₂F₅-BR)
J. CHEM. SOC., FARADAY TRANS., 1, 68, 306, 1972
- 165 72 019 FILBY EE AMES LL
DISSOCIATION ENERGIES FOR GASEOUS METAL DICARBIDES
INORG. NUCL. CHEM. LETT., 0, 835, 1972
- 165 72 020 FINN P JOLLY WL
NITROGEN 1S BINDING ENERGIES OF TRANSITION METAL NITROSYLE
INORG. CHEM., 11, 893, 1972
- 165 72 021 FINN P JOLLY WL
NITROGEN 1S BINDING ENERGIES OF SOME AZIDE, DINITROGEN, AND NITRIDE COMPLEXES OF TRANSITION METALS
INORG. CHEM., 11, 1434, 1972
- 165 72 022 FOGN R TAIT KB
CHLORINE ABSTRACTION REACTIONS OF FLUORINE. 2. KINETIC DETERMINATION OF BOND DISSOCIATION ENERGY
D(CCL₂F-CL)
J. CHEM. SOC., FARADAY TRANS., 1, 68, 104, 1972
- 165 72 023 FROST DC HERRING FG KATRIB A
PHOTOELECTRON SPECTRA AND BONDING IN SOME HALOSILANES

CAN. J. CHEM., 49, 4033, 1971
- 165 72 024 FROST DC HERRING FG KATRIB A
PHOTOELECTRON SPECTRA OF CH₃SH, (CH₃)₂S, C₆H₅SH, AND C₆H₅CH₂SH: BONDING BETWEEN SULFUR AND CARBON
J. PHYS. CHEM., 76, 1030, 1972
- 165 72 025 FUSHMAN EA POTYAGAI ED CHIRKOV NM
CONCERNING POSSIBILITY OF DETERMINING ENERGY OF SIGMA METAL-CARBONIC BOND IN ETHYL DERIVATIVE OF
TITANIUM (C₂H₅)₂TiCl₂ BASED ON STUDYING KINETICS OF THERMAL DECOMPOSITION
IZV. AKADE. NAUK SSSR, SER. KHIM., NO. 4, 715, 1971 IN RUSSIAN
- 165 72 026 GINGERICH KA FINKBEINER HC
DISSOCIATION ENERGIES OF SCANDIUM AND YTTRIUM MONOAMIDES AND PREDICTED STABILITIES OF SELECTED
DIATOMIC INTERMETALLIC COMPOUNDS WITH SCANDIUM AND YTTRIUM
PP 795-803 OF CONF-711001 (VOL. 2), FROM 9TH RARE EARTH RESEARCH CONFERENCE, BLACKSBURG, VA., OCT. 10,
1971
- 165 72 027 GINGERICH KA
GASEOUS PHOSPHORUS COMPOUNDS. 7. DISSOCIATION ENERGY AND HEAT OF FORMATION OF BORON MONOPHOSPHIDE
J. CHEM. PHYS., 56, 4239, 1972
- 165 72 028 GINGERICH KA
EXPERIMENTAL AND PREDICTED ATOMIZATION ENERGIES OF RARE EARTH DIAZIDES
CHEM. PHYS. LETT., 13, 262, 1972
- 165 72 029 GINGERICH KA
MASS SPECTROMETRIC DETERMINATION OF THE HEATS OF ATOMIZATION OF THE MOLECULES CE₂S, CES₂, CE₂S₂, AND
CE₂S₃
HIGH TEMP. SCI., 4, NO. 3, 236, 1972
- 165 72 030 GOLDSHTE ND MISHCHEN VA ZELINSKIE AI
BONDING ENERGY OF SURFACE OXYGEN IN V₂O₅.MOO₃ SYSTEM OF VARIOUS COMPOSITIONS
Zh. Fiz. KHIM., 46, 106, 1972 IN RUSSIAN
- 165 72 031 GOOD WD MOORE RT
ENTHALPIES OF COMBUSTION AND FORMATION OF CYCLOPROPYLAMINE. C-N THERMOCHEMICAL BOND ENERGY
J. CHEM. THERMODYN., 3, 701, 1971. AD-742 021, 1971
- 165 72 032 GSCHNEIDER KA
NATURE OF 4F BONDING IN THE LANTHANIDE ELEMENTS AND THEIR COMPOUNDS
J. LESS-COMMON METALS, 25, 405-22, 1971
- 165 72 033 GURVICH LV RYABOVA VG KHITROV AN
SPECTROPHOTOMETRIC DETERMINATION OF DISSOCIATION ENERGIES OF MOLECULES. 1. SRCL AND SROM
HIGH TEMP. USSR (ENGL. TRANS.), 9, NO. 2, XXX, 1971

- 165 72 034 GUSAROV AV GOROKHOV LN
DISSOCIATION ENERGIES OF MOLECULES OF MONOXIDES OF ALKALI METALS. ION MODEL
HIGH TEMP. USSR (ENGL. TRANS.), 9, 460, 1971
- 165 72 035 HILDENBRAND DL
GASEOUS EQUILIBRIUM $\text{Ge} + \text{SiO} = \text{GeO} + \text{Si}$ AND DISSOCIATION OF SiO
HIGH TEMP. SCI., 4, 244, 1972
- 165 72 036 HILLIER IH SAUNDERS VR
THEORETICAL INTERPRETATION OF BONDING, AND PHOTOELECTRON AND ULTRAVIOLET SPECTRA OF SULPHUR DIOXIDE
MOL. PHYS., 22, NO. 2, XXX, 1971
- 165 72 037 HUANG JJ SCHWARTZ ME PFEIFFER GV
THEORETICAL STUDIES OF THE BINDING ENERGY AND GEOMETRY OF THE $\text{HS}(+)$ MOLECULAR ION
J. CHEM. PHYS., 56, 755, 1972
- 165 72 038 JACKSON OD
THERMODYNAMICS OF THE GASEOUS HYDROXIDES
UCRL-51137, CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., DEC. 1971, 141P
- 165 72 039 JOHNSON KH SMITH FC
CHEMICAL BONDING OF A MOLECULAR TRANSITION METAL ION IN A CRYSTALLINE ENVIRONMENT
PHYS. REV., 58, 831, 1972, AD-739 784, 1971
- 165 72 040 JONES PR DREWS MJ JOHNSON JK
BONDING STUDIES IN GROUP-IV SUBSTITUTED ANILINES. 1. A COMPARISON OF CHARGE TRANSFER AND
ELECTROCHEMICAL METHODS FOR DETERMINING GROUND STATE ENERGIES
JACS, 94, 4595, 1972
- 165 72 041 JOSHI RM
BOND ENERGY/GROUP CONTRIBUTION METHODS OF CALCULATING STANDARD HEAT OF FORMATION. DEVELOPMENT OF A
NEW GENERALIZED BOND ENERGY SCHEME FOR MONOMERS AND POLYMERS. 2. HYDROCARBONS
J. MACROMOL. SCI. CHEM., 5, 687, 1971
- 165 72 042 KANT A LIN SS
DISSOCIATION ENERGIES OF HOMONUCLEAR DIATOMIC MOLECULES OF RARE EARTHS
MONATSH. CHEM., 103, 757, 1972
- 165 72 043 KASHKOOI IY MUNIR ZA
DISSOCIATION ENERGY AND PRESSURE OF GALLIUM SESQUISULFIDE
HIGH TEMP. SCI., 4, 82, 1972
- 165 72 044 KOHL FJ STEARNS CA
DISSOCIATION ENERGY OF GASEOUS TITANIUM MONONITRIDE
N69-19129, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, LEWIS RESEARCH CENTER, CLEVELAND, OHIO, 20P
- 165 72 045 KOHL FJ STEARNS CA
MASS SPECTROMETRIC KNUDSEN CELL STUDIES OF VAPORIZATION OF LANTHANUM AND SCANDIUM CARBIDES AND
DISSOCIATION ENERGY OF LaC_2 , LaC_3 , LaC_4 , ScC_2 , AND ScC_4
N71-15889, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, CLEVELAND, OHIO, LEWIS RESEARCH CENTER,
JAN. 1971, 30P
- 165 72 046 KRAUSE GH HOYER H
HYDROGEN BONDING AND STEREOSPECIFIC LONG RANGE SPIN COUPLING IN 3-NITRO-5-FLUOROSALICYLALDEHYDE
MONATSH. CHEM., 103, 1114, 1972
- 165 72 047 KRAUSE GH HOYER H
RELATIONS BETWEEN ROTATIONAL ISOMERISM, HYDROGEN BONDING, AND SUBSTITUENT EFFECTS IN ORGANIC
CHEMISTRY. EFFECT OF HINDRANCE TO PROTON ACCEPTOR ROTATION
Z. NATURFORSCH., 27B, 663, 1972
- 165 72 048 KUZNETSOV KE
BOND ENERGY IN MOLECULES OF IONIC GASEOUS COMPOUNDS
ZH. STRUKT. KHIM., 12, 1128, 1971 IN RUSSIAN
- 165 72 049 LALONDE AC PRICE SJ
DETERMINATION OF BOND DISSOCIATION ENERGY $\text{D}(\text{C}_2\text{H}_5\text{SHG}-\text{C}_2\text{H}_5)$ BY TOLUENE CARRIER METHOD
CAN. J. CHEM., 49, 3367, 1971
- 165 72 050 LAPPERT MF
BONDING STUDIES OF COMPOUNDS OF BORON AND THE GROUP-IV ELEMENTS. 6. MASS SPECTROMETRIC STUDIES ON
COMPOUNDS Me_4M AND $\text{Me}_3\text{M}-\text{M}'\text{Me}_3$ (M AND $\text{M}' = \text{C}, \text{Si}, \text{Ge}, \text{Sn}, \text{AND Pb}$): THERMOCHEMICAL DATA
J. ORGANOMET. CHEM., 29, 195, 1971
- 165 72 051 LAUFER AH OKABE H
HEAT OF FORMATION AND BOND DISSOCIATION ENERGY OF DIAZOMETHANE BY A PHOTODISSOCIATION METHOD
JACS, 93, 4137, 1971, COM-72-5010, 1971
- 165 72 052 LEWIS ES BUTLER MM
ORDERING OF CARBON-HYDROGEN BOND STRENGTHS USING ISOTOPE EFFECTS
J. CHEM. SOC. C, P941, 1971
- 165 72 053 LIN SS KANT A
DISSOCIATION ENERGIES OF DIATOMIC RARE EARTH MOLECULES DY_2 , HC_2 , ER_2 , TM_2 , AND YB_2
AD735 684, ARMY MATERIALS AND MECHANICS RESEARCH CENTER, WATERTOWN, MASS., 20P
- 165 72 054 LIU B
DISSOCIATION ENERGIES OF $\text{HE}_2(+)(\text{X}(2)\text{SIGMA}(+)U)$ AND $\text{HE}_2(\text{A}(1)\text{SIGMA}(+)U)$
PHYS. REV. LETT., 27, 1251, 1971
- 165 72 055 MCQUIRE RF MOMANY FA SCHERAGA HA
ENERGY PARAMETERS IN POLYPEPTIDES. 5. AN EMPIRICAL HYDROGEN BOND POTENTIAL FUNCTION BASED ON
MOLECULAR ORBITAL CALCULATIONS
J. PHYS. CHEM., 76, 375, 1972
- 165 72 056 MELTON CE
FORMATION OF, BY TERMOLECULAR REACTIONS, AND BOND DISSOCIATION ENERGY, STRUCTURE, AND BOND LENGTH
FOR $\text{OH}(-)\text{H}_2\text{O}$ AND $\text{O}(-)\text{H}_2\text{O}$
J. PHYS. CHEM., 76, 3116, 1972

- 165 72 057 MINGOS DM
INFLUENCE OF METAL ELECTRONIC CONFIGURATION ON ACTIVATION ENERGY FOR TRANSITION METAL-CARBON BOND DISSOCIATION
J. CHEM. SOC. D, CHEM. COMMUN., P165, 1972
- 165 72 058 MISURKIN IA OVCHINNI AA
CALCULATION OF ELECTRONIC STRUCTURE OF SMALL MOLECULES WITH SATURATED BONDS. 1. SEMIEMPIRICAL CALCULATIONS OF TERM ENERGIES OF OXYGEN, NITROGEN, AND CARBON, AND THEIR IONS
OPT. SPECTROSC. USSR (ENGL. TRANS.), 30, 334, 1971
- 165 72 059 MONCHARZ EM FINKELSH AI
QUANTUM CHEMICAL CALCULATION OF ACTIVATION ENERGIES ALLOWING FOR CHANGE IN MULTIPLICITY OF MOLECULAR BONDS IN COURSE OF REACTION
KINET. KATAL., 13, 285, 1972 IN RUSSIAN
- 165 72 060 MORTON TH BEAUCHAMP JL
CHEMICAL CONSEQUENCES OF STRONG HYDROGEN BONDING IN REACTIONS OF ORGANIC IONS IN GAS PHASE. INTERACTION OF REMOTE FUNCTIONAL GROUPS
JACS, 94, 3671, 1972
- 165 72 061 MURPHY CB ENRIONE RE
BOND DISSOCIATION ENERGIES OF 1 AND 2-ISOMERS OF PENTABORANE DERIVATIVES BY ELECTRON IMPACT AND BY EXTENDED HUCKEL CALCULATIONS
J. MASS SPECTRY, ION PHYS., 7, 327, 1971
- 165 72 062 MURPHY CB ENRIONE RE
MASS SPECTROMETRIC DETERMINATION OF BOND DISSOCIATION ENERGIES IN BF_3OEt_2
J. CHEM. SOC. D, P1622, 1971
- 165 72 063 NECKEL A SODECK G
DISSOCIATION ENERGIES OF GASEOUS MOLECULES CUG₂, AGG₂, AND AUGE
MONATSH. CHEM., 103, 367, 1972
- 165 72 064 OGATA M ICHIKAWA H
AN MD APPROACH TO THE INTERPRETATION OF ORGANIC MASS SPECTRA. 1. RELATIVE BOND ENERGY OF THE MOLECULE ION BY THE EXTENDED HUCKEL METHOD
BULL. CHEM. SOC. JAPAN, 45, 3231, 1972
- 165 72 065 OKABE H
PHOTODISSOCIATION OF CS_2 IN THE VACUUM ULTRAVIOLET: DETERMINATION OF $\text{DO}(\text{SC-S})$
COM-72-5072, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1972
- 165 72 066 PANDEY JD GUPTA S
CALCULATION OF MOBILE BOND AND DELOCALIZATION ENERGY
Z. PHYS. CHEM. (LEIPZIG), 246, 177, 1971
- 165 72 067 PEPEKIN VI MATIUSHI IN FESHCHEN AG
DISSOCIATION ENERGY OF N-O BOND IN BENZOFUROXANE
DOKL. AKAD. NAUK SSSR, 202, 91, 1972 IN RUSSIAN
- 165 72 068 PIACENTE V GINGERICH KA
GASEOUS PHOSPHORUS COMPOUNDS. 6. MASS SPECTROMETRIC DETERMINATION OF DISSOCIATION ENERGY OF GASEOUS GALLIUM MONOPHOSPHIDE BY A DOUBLE OVEN TECHNIQUE
HIGH TEMP. SCI., 3, 219, 1971
- 165 72 069 PIACENTE V GINGERICH KA
THERMODYNAMIC STUDY OF THE MOLECULE NAAG WITH A MASS SPECTROMETER
HIGH TEMP. SCI., 4, 312, 1972
- 165 72 070 PIACENTE V MALASPIN L
DISSOCIATION ENERGY OF TIAS MOLECULE
J. CHEM. PHYS., 56, 1780, 1972
- 165 72 071 QUANE D
BOND ENERGY TERMS FOR METHYLSILANES AND METHYLCHLOROSILANES
J. PHYS. CHEM., 75, 2480, 1971
- 165 72 072 RAI B SINGH J RAI DK
DISSOCIATION ENERGIES OF S_2 , SO , Te_2 , SeO , AND P_2 MOLECULES
ISRAEL J. CHEM., 9, 563, 1971
- 165 72 073 RIVAUD G RIVIERE JP GRILHE J
ENERGIE DE LIAISON LACUNE ATOME DE ZINC DANS DES ALLIAGES AL-ZN DILUES
SCR. MET., 6, 65, 1972
- 165 72 074 SHAFI M BECKEL CL ENGELKE R
DIATOMIC MOLECULE GROUND STATE DISSOCIATION ENERGIES
J. MOL. SPECTROSC., 42, 578, 1972
- 165 72 075 SHCHEREDIN VP SIDOROV LN
MASS SPECTROMETRIC STUDY OF THERMODYNAMIC PROPERTIES OF NAF-MEF_3 BINARY SYSTEMS. 3. ENTHALPY OF DISSOCIATION OF COMPLEX MOLECULES
Zh. Fiz. Khim., 45, 1272, 1971 IN RUSSIAN
- 165 72 076 SHOL'TS VB SIDOROV LN
ENTHALPIES OF DISSOCIATION, MASS SPECTRA AND STRUCTURES OF SOME COMPLEX FLUORIDES
VESTN. MOSK. UNIV., SER. II. KHIM., P382, 1972 IN RUSSIAN
- 165 72 077 SINGH J NAIR KP RAI DK
POTENTIAL ENERGY CURVES AND DISSOCIATION ENERGIES OF DIATOMIC FLUORIDES AND CHLORIDES OF GALLIUM, INDIUM, AND THALLIUM
J. QUANT. SPECTROSC. RAD. TRANSFER, 11, 1577, 1971
- 165 72 078 SMOES S MANDY F AUWERMA MA
DETERMINATION BY MASS SPECTROMETRIC KNUDSEN CELL METHOD OF DISSOCIATION ENERGIES OF GROUP-18 CHALCOGENIDES
BULL. SOC. CHIM. BELGES, 01, 45, 1972

- 165 72 079 STEARNS CA KOHL FJ
VAPORIZATION THERMODYNAMICS OF LANTHANUM-CARBON SYSTEM: MASS SPECTROMETRIC DETERMINATION OF
DISSOCIATION ENERGY OF LAC₂, LAC₃, AND LAC₄
J. CHEM. PHYS., 54, 5180, 1971
- 165 72 080 TAMAS J
ELECTRON IMPACT STUDIES ON SOME ORGANOCHLOROGERMANES: MASS SPECTRA AND BOND DISSOCIATION ENERGIES
J. ORGANOMET. CHEM., 40, 311, 1972
- 165 72 081 TRIVEDI VM GOHEL VB
DISSOCIATION ENERGY OF IO MOLECULE
J. PHYS. B, 5, NO. 2, L38, 1972
- 165 72 082 UY OM DROWART J
DETERMINATION BY MASS SPECTROMETRIC KNUDSEN CELL METHOD OF ATOMIZATION ENERGIES OF GASEOUS ALUMINIUM
CHALCOGENIDES, AL₂, ALCU, ALCUS, AND ALCUS₂
TRANS. FARADAY SOC., 67, 1293, 1971
- 165 72 083 VAIDYAN VK SANTARAM C
DISSOCIATION ENERGY AND POTENTIAL ENERGY CURVES OF P₂
INDIAN J. PURE APPL. PHYS., 9, 1022, 1971
- 165 72 084 VAN DER HA WJ MULDER JJ OOSTERHO LJ
EXTENDED VALENCE BOND THEORY, AROMATICITY, AND WOODWARD-HOFFMANN RULES
JACS, 94, 5724, 1972
- 165 72 085 VAUGE C WHITTEN JL
GEOMETRY AND DISSOCIATION ENERGY OF ME₃(+)
CHEM. PHYS. LETT., 12, 541, 1972
- 165 72 086 VILCU R PERISANU S
APPLICATION OF ALLEN-SKINNER BOND ENERGY SCHEME TO AROMATIC HYDROCARBONS AND TO AMINES
REV. ROUM. CHIM., 17, 447, 1972
- 165 72 087 WACHI FM GILMARTI DE
HIGH TEMPERATURE MASS SPECTROMETRY. 3. DISSOCIATION ENERGIES AND HEATS OF FORMATION OF AG₂ AND AU₂
AD-742 976. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 165 72 088 WU HY WAHLBECK PG
VAPOR PRESSURES OF TiO(G) IN EQUILIBRIUM WITH Ti₂O₃(G) AND Ti₂O₅(S, BETA): DISSOCIATION ENERGY OF
TiO(G)
J. CHEM. PHYS., 56, 4534, 1972
- 165 72 089 YAMAGUCHI R KEBARLE P
HYDROGEN BONDING ENERGIES TO NEGATIVE IONS FROM GAS PHASE MEASUREMENTS OF IONIC EQUILIBRIA
JACS, 93, 7139, 1971
- 165 72 090 ZAVITSAS AA
ACTIVATION ENERGY REQUIREMENTS IN HYDROGEN ABSTRACTIONS. QUANTITATIVE DESCRIPTION OF CAUSES IN TERMS
OF BOND ENERGIES AND INFRARED FREQUENCIES
JACS, 94, 2779, 1972
- 175 72 001 ANDERSON JS BAGSHAW AN
THERMODYNAMIC STUDIES ON SOME RARE EARTH DICARBIDES
REV. CHIM. MINERALE, 9, 115, 1972
- 175 72 002 BALDUCCI G DE MARIA G GUIDO M
THERMODYNAMICS OF RARE EARTH-CARBON SYSTEMS
PP 415-21 OF PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS.
POLISH SCIENTIFIC PUBLISHERS, WARSAW, 1969. CONF-690834
- 175 72 003 BALDUCCI G CAPALBI A DE MARIA G GUIDO M
MASS SPECTROMETRIC STUDY OF RARE EARTH-CARBON SYSTEMS. 3. THE HOLMIUM-CARBON AND DYSPROSIUM-CARBON
SYSTEMS
AD-853 237. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1969
- 175 72 004 CLARK NJ MCCORM IJ
CERIUM-OXYGEN-CARBON SYSTEM
J. INORG. NUCL. CHEM., 34, 117, 1972
- 175 72 005 CUEILLERON J LAHET G THEVENOT F PARIS RA
NEW METHODS OF OBTAINING METAL BORIDES
SC-T-713075. TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO, FROM J. LESS-COMMON METALS, 24,
317, 1971, 8P
- 175 72 006 EICK HA SEIVER RL AYASSE C WOK DE HARIHARAN AV
BIEFELD CG BIEFELD RM
INVESTIGATION OF SOME LANTHANIDE BORON, CARBON, NITROGEN, SILICON, CHALCOGEN, AND HALOGEN SYSTEMS AT
ELEVATED TEMPERATURES
COO-716-72. TECHNICAL PROGRESS REPORT, FEB. 1971 - FEB. 1972, 38P. COO-716-79. PROGRESS REPORT,
1972, 27P. MICHIGAN STATE UNIV., EAST LANSING, DEPT. OF CHEMISTRY
- 175 72 007 FAVRE R THEVENOT P
PREPARATION AND STUDY OF THE DIBORIDES OF TI, ZR, AND HF
BULL. SOC. CHIM. FRANCE, P3911, 1971 IN FRENCH
- 175 72 008 FILBY EE
MASS SPECTROMETRIC INVESTIGATIONS OF C₂ EXCHANGE REACTIONS OF RARE EARTH METALS WITH THEIR
DICARBIDES
THESIS. NEW MEXICO STATE UNIVERSITY, UNIVERSITY PARK, 1971, 157P. UNIV. MICROFILMS ORDER NO. 71-24
.628
- 175 72 009 FOMENKO MS LAVRENKO VA OCHRENTSCHUK LN
CORRELATIONS OF THE WORK FUNCTIONS OF TRANSITION METAL CARBIDES IN THE HOMOGENEITY REGION WITH THE
SURFACE RECOMBINATION OF HYDROGEN ATOMS
REV. INT. HAUTES TEMP. REFRACT., 8, 315, 1971 IN GERMAN

- 175 72 010 FRANTSEVICH IN
KHIMICHESKIE SVOISTVA I METODY ANALIZA TUGOPLAVKIKH SOEDINENII. (CHEMICAL PROPERTIES AND METHODS OF
ANALYSIS OF REFRACTORY COMPOUNDS)
BOOK. IZDATEL'STVO NAUKOVA DUMKA. KIEV, 1969. 164P. 27 ARTICLES
- 175 72 011 GORYACHEV YM ODINTSOV VV PADERNO YR
ELECTRON SPECTRUM AND PHYSICAL PROPERTIES OF ODDECABORIDES
SC-7-722552. TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO. FROM METALLOFIZIKA, NO. 37,
29-36, 1971. 12P
- 175 72 012 GUIDO M BALDUCCI G DE MARIA G
THERMODYNAMICS OF RARE EARTH CARBON SYSTEMS. 4. LUTETIUM-CARBON SYSTEM
J. CHEM. PHYS., 57, 1475, 1972
- 175 72 013 GUTU A IORGULESCU S JITEA I
PREPARATION OF URANIUM CARBIDES AT LOWER TEMPERATURES
REV. ROUM. SCI. TECH., SER. MET., 15, 63, 1970 IN FRENCH
- 175 72 014 HACKSTEIN K NICKEL H VENET P
EVAPORATION BEHAVIOR OF SAMARIUM AND SAMARIUM DICARBIDE
EUR-4686. NUKLEAR CHEMIE UND METALLURGIE G.M.B.H., WOLFGANG BEI HANAU, WEST GERMANY AND
KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, MAY 1971. 58P IN GERMAN
- 175 72 015 HACKSTEIN K NICKEL H VENET P
PRODUCTION, CHARACTERISTICS, AND HYDROLYSIS OF SAMARIUM CARBIDES
EUR-4697. NUKLEAR CHEMIE UND METALLURGIE G.M.B.H., WOLFGANG BEI HANAU, WEST GERMANY AND
KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, JUNE 1971. 78P IN GERMAN
- 175 72 016 HAJEK B BROZEK V POPL M MCSTECKY J
STUDIES OF HYDROLYZABLE CARBIDES. 4. PRODUCTION AND HYDROLYSIS OF MIXED CRYSTALS IN THE CAC2-YC2
SYSTEM. 7. DECOMPOSITION OF SOME DICARBIDES OF THE TYPE M(III)C2 AND OF SCANDIUM CARBIDE WITH
DEUTERIUM OXIDE
COLLECT. CZECH. CHEM. COMMUN., 36, 1537 AND 3236, 1971
- 175 72 017 HOEHNDORF A ORD F
TRITIUM FRACTIONATION IN WATER-CARBIDE TO BENZENE REACTION
EARTH PLANET. SCI. LTRS., 11, 265, 1971
- 175 72 018 JUENKE EF
REVIEW OF RECENT RESEARCH ON REFRACTORY METAL CARBIDES AND BORIDES
GEMP-267. GENERAL ELECTRIC CO., CINCINNATI, OHIO. NUCLEAR MATERIALS AND PROPULSION OPERATIONS, AUG.
1964. 24P. 101 REFERENCES
- 175 72 019 JUN CK HOCH M
THERMODYNAMIC PROPERTIES OF TERNARY REFRACTORY CARBIDES. 1. ZIRCONIUM-NIOBIUM-CARBON
J. ELECTROCHEM. SOC., 118, 1498, 1971
- 175 72 020 KOSOLAPOVA TY MAKARENKO GN DOMASEVICH LT
CHARACTERISTICS OF CHEMICAL BONDING IN RARE EARTH CARBIDES
J. APPL. CHEM. USSR (ENGL. TRANS.), 44, 965, 1971. TRANSLATED FROM ZH. PRIKL. KHIM., 44, 953, 1971
- 175 72 021 KUGAI LN NAZARCHUK TN
CHEMICAL STABILITY OF DIBORIDES OF THE TRANSITION METALS FROM GROUPS-IV-V OF THE PERIODIC SYSTEM
SO. PUDEN MET. CERAM. (ENGL. TRANS.), 10, 212, 1971. TRANSLATED FROM POROSH. MET., AKAD.
NAUK UKR. SSR, 10, NO. 3, 51, 1971
- 175 72 022 LORENZELLI N MARCON JP
STUDIES OF THE TERNARY SYSTEM URANIUM-CARBON-RARE EARTHS (CE, NO, LA)
J. LESS-COMMON METALS, 26, 71, 1972 IN FRENCH
- 175 72 023 LYNCH AW WILLIAMS CH
TITANIUM CARBIDE-CARBON VAPORIZATION
SC-RR-710635. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, SEPT. 1971. 22P
- 175 72 024 MAYER I FELNER I
RARE EARTH SILICIDES AND GERMANIDES OF THE MN5Si3 TYPE SUBSTITUTED BY EUROPIUM
J. LESS-COMMON METALS, 24, 243, 1971
- 175 72 025 MAYER I FELNER I
HIGH TEMPERATURE X-RAY STUDY OF RARE EARTH SILICIDES
J. LESS-COMMON METALS, 29, 25, 1972
- 175 72 026 PAYER JH
DISSOLUTION BEHAVIOR OF CARBIDES IN AQUEOUS ENVIRONMENTS
THESIS. OHIO STATE UNIV., COLUMBUS, 1971. 242P. UNIV. MICROFILMS ORDER NO. 72-4607
- 175 72 027 SUGIHARA S IMOTO S
HYDROLYSIS OF THORIUM NITRIDES AND CARBONITRIDES
J. NUCL. SCI. TECHNOL. (TOKYO), 8, 630, 1971
- 175 72 028 TAGAWA H FUJII K SASAKI Y
STUDIES ON THE URANIUM DICARBIDE PHASE
J. NUCL. SCI. TECHNOL. (TOKYO), 8, 244, 1971
- 180 72 001 ALBANO VG CIANI G BRUCE MI
NOVEL MIXED PLATINUM-IRON CLUSTER COMPOUND. STRUCTURE OF
TRIANGULOTETRACARBONYLIRON-CARBONYLTRIS(IMPENYL)PHOSPHINE DIPLATINUM
J. ORGANOMET. CHEM., 47, NO. 2, 1972
- 180 72 002 ALPER H
CARBONYL INSERTION REACTION OF IRON PENTACARBONYL WITH NONAROMATIC NITRO COMPOUNDS
INORG. CHEM., 11, 976, 1972
- 180 72 003 ALPER H
DIIRON ENNEACARBONYL INDUCED REARRANGEMENT OF SANTONIN
JACS, 94, 2144, 1972
- 180 72 004 ALPER H KEUNG ECH
FORMATION OF 1,4 DIKETONES, MONOKETONES, AND BETA-EPOXY KETONES BY REACTION OF IRON PENTACARBONYL
WITH ALPHA-HALO KETONES. POSSIBLE MECHANISM FOR IRON PENTACARBONYL-HALIDE REACTION
J. ORG. CHEM., 37, 2566, 1972

- 180 72 005 ALPER H PARTIS RA
NOVEL DEOXYGENATION OF A CARBONYL GROUP OF IRON PENTACARBONYL
J. ORGANOMET. CHEM., 35, 40, 1972
- 180 72 006 ALTMAN J GINSBURG D
PROPELLANES. 14. THERMAL BEHAVIOUR OF A BICYCLO(4.2.2)DECA-2.4.7.9-TETRAENE ETHER DERIVATIVE AND ITS
REACTION WITH IRON PENTACARBONYL
TETRAHEDRON, 27, 93, 1971
- 180 72 007 ANDERSON WP BROWN TL
SIMPLE MOLECULAR ORBITAL MODEL FOR INFRARED INTENSITIES IN METAL CARBONYL COMPOUNDS
J. ORGANOMET. CHEM., 32, 343, 1971
- 180 72 008 ANGELICI RJ HOFFMANN JJ
METAL CARBONYL COMPLEXES OF ADENINE LIKE LIGANDS
BIOCHIM., 1, 187, 1972
- 180 72 009 ASHRAF M
BASE CATALYZED DEUTERATION OF TRICARBONYLCHROMIUM COMPLEXES
CAN. J. CHEM., 50, 118, 1972
- 180 72 010 BAMFORD CH EASTMOND GC FILDES FJ
STUDIES IN POLYMERIZATION. 20. ON FREE RADICAL FORMATION BY OXIDATION OF MOLYBDENUM CARBONYL WITH
CARBON TETRAHALIDES. CARBON TETRACHLORIDE. 21. ON FREE RADICAL FORMATION BY OXIDATION OF
MOLYBDENUM CARBONYL WITH CARBON TETRAHALIDES. CARBON TETRABROMIDE
PROC. ROY. SOC. (LONDON), SER. A, 326, NO. 1567, 431 AND 453, 1972
- 180 72 011 BARBER M CONNOR JA MILLIER IM
HIGH ENERGY PHOTOELECTRON SPECTRA OF AND BONDING IN TRANSITION METAL CARBONYLS
J. CHEM. SOC. D, P682, 1971
- 180 72 012 BENCZE L
SYNTHESIS OF HALO METAL CARBONYLS BY REDUCTIVE CARBONYLATION OF HALIDES AND OXYHALIDES OF MOLYBDENUM
AND TUNGSTEN
J. ORGANOMET. CHEM., 37, NO. 2, C37, 1972
- 180 72 013 BENNETT RL BRUCE MI STONE FG
SOME CARBONYL AND RELATED COMPLEXES CONTAINING LIGANDS PHCH₂WE₂ (E = P OR AS)
J. ORGANOMET. CHEM., 38, 325, 1972
- 180 72 014 BERRY A BROWN TL
EXCHANGE OF C(13)O WITH MANGANESE PENTACARBONYL HYDRIDE
J. ORGANOMET. CHEM., 33, NO. 3, C67, 1971
- 180 72 015 BERRY A BROWN TL
KINETICS OF EXCHANGE OF CARBON-13 MONOXIDE WITH MANGANESE PENTACARBONYL BROMIDE
INORG. CHEM., 11, 1165, 1972
- 180 72 016 BEST GT FORSBERG CA GOLOMB D ROSENBER NW VICKERY WK
RELEASE OF IRON CARBONYL INTO THE UPPER ATMOSPHERE
AD-742 189. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 180 72 017 BIRCH AJ HAAS MA
ORGANOMETALLIC COMPLEXES IN SYNTHESIS. 3. REACTION OF CONCENTRATED SULPHURIC ACID WITH
TRICARBONYLCYCLOHEXA-1,3-DIENEIRON COMPLEXES: PREPARATION OF CERTAIN

ALKYLTRICARBONYLCYCLOHEXA-DIENYLIRON SALTS
J. CHEM. SOC. C, P2465, 1971
- 180 72 018 BLACIK LJ
REACTIONS OF SOME ARENE MANGANESE TRICARBONYL CATIONS WITH AMINES AND HYDRAZINES
IS-T-481. THESIS. IOWA STATE UNIV., AMES LAB. USAEC, AMES, JAN. 1972, 47P
- 180 72 019 BOND A GREEN M
OXIDATIVE REACTION OF FLUORODOLEFINS WITH TRICARBONYL(CYCLOBUTADIENE) IRON COMPLEXES
J. CHEM. SOC., DALTON TRANS., P763, 1972
- 180 72 020 BOWDEN JA COLTON R
SUBSTITUTED CARBONYL DERIVATIVES OF GROUP-VI TRANSITION METALS. 2. COMPLEXES WITH TRITOLYLPHOSPHINES
AUSTRALIAN J. CHEM., 24, NO. 12, XXX, 1971
- 180 72 021 BOWDEN JA COLTON R
CARBONYL HALIDES OF GROUP-VI TRANSITION METALS. 25. COMPLEXES WITH TRITOLYLPHOSPHINES
AUSTRALIAN J. CHEM., 25, 17, 1972
- 180 72 022 BRADFORD CW NYHOLM RS
NEW POLYNUCLEAR OXOCARBONYL CONTAINING SIX OSMIUM ATOMS
J. CHEM. SOC. A, P2038, 1971
- 180 72 023 BREMER NJ
SYNTHESIS AND STUDIES OF DEHYDRO-NN'-TRIALKYLGUANIDINEHEXACARBONYLDIIRON(0)
J. CHEM. SOC. A, P3264, 1971
- 180 72 024 BRUCE MI SHAW G STONE FG
CHEMISTRY OF METAL CARBONYLS. 63. NEW CLUSTER CARBONYL COMPOUNDS CONTAINING PLATINUM AND IRON
AD-744 752. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 180 72 025 BRUCE MI GOODALL BL SHARROCK DN
REACTIONS OF ANION ((PI-C5H5)MO(CO)2(PH3))(-)
J. ORGANOMET. CHEM., 39, 139, 1972
- 180 72 026 BRUCE MI CLARK R HOWARD J
REACTIONS OF COPPER ACETYLIDES. CRYSTAL STRUCTURE OF ((NPI-C5H5)FE(CO)2(CCPHICUCL)2
J. ORGANOMET. CHEM., 42, NO. 2, C107, 1972
- 180 72 027 BRUCE MI
REACTIONS BETWEEN CYCLODODECA-1.5.9-TRIENE AND DODECACARBONYLTRIRUTHENIUM
J. CHEM. SOC. D, P1293, 1972

- 180 72 028 BRULE G LEBIHAN J
CHIMIE ORGANIQUE. ACTION DE QUELQUES METAUX CARBONYLES SUR DES COMPOSES DE STRUCTURE FLUORENIQUE ET
INDENOTHIOPHENIQUE
COMPT. REND., SER. C, 274, 1218, 1972
- 180 72 029 BRUNE HA
1. UBER DEN EINFLUSS VON CHLOR SUBSTITUENTEN AUF DIE BILDUNGSTENDENZ UND BINDUNGSVERHALTNISSE DES
TRICARBONYL(BUTA-1,3-DIEN)EISEN: TRICARBONYL(2,3-DICHLORBUTA-1,3-DIEN)EISEN UND
TRICARBONYL(2-CHLORBUTA-1,3-DIEN)EISEN. 2. UBER DEN EINFLUSS VON SUBSTITUENTEN AUF BILDUNGSTENDENZ
UND BINDUNGSEIGENSCHAFTEN DES TRICARBONYL(BUTA-1,3-DIEN)EISEN: TRICARBONYL(TRANS-1,2-
DICHLORBUTA-1,3-DIEN)EISEN, TRICARBONYL(TRANS-1-CHLORBUTA-1,3-DIEN)EISEN UND VERSUCHE ZUR SYNTHESE
DES TRICARBONYL(TRANS, TRANS-1,2,3,4-TETRACHLORBUTA-1,3-DIEN)EISEN
TETRAHEDRON, 28, 2593 AND 4455, 1972
- 180 72 030 BRUNNER H HERRMANN WA
OPTISCH AKTIVE UBERGANGSMETALL KOMPLEXE. 10. CARBONYL KOMPLEXE VON CHROM(0), MOLYBDAN(0), UND
WOLFRAM(0) MIT SCHIFFSCHEN BASEN DES PYRIDIN-CARBALDEHYDS-(2)
CHEM. BER., 105, 770, 1972
- 180 72 031 BRYAN RF GREENE PT
METAL-METAL BONDING IN COORDINATION COMPLEXES. 10. PREPARATION, SPECTROSCOPIC PROPERTIES, AND
CRYSTAL STRUCTURE OF THE CIS-ISOMER OF DI-MU-CARBONYL-DICARBONYLOI-PI-CYCLOPENTADIENYLOIRON (
FE-Fe)
J. CHEM. SOC. A, P3068, 1970
- 180 72 032 BURLITCH JM HAYES SE
TETRAMERIC TRANSITION METAL CARBONYL ZINC ALKOXIDES
J. ORGANOMET. CHEM., 42, NO. 1, C13, 1972
- 180 72 033 BUTLER IS COVILLE NJ SPENDJIA HK
REACTIONS OF METAL CARBONYL COMPLEXES. 1. HALODICARBONYL COMPLEXES OF MANGANESE(II)
J. ORGANOMET. CHEM., 43, 185, 1972
- 180 72 034 CAMPBELL AJ FYFE CA MASLOWSK E
MOLECULAR DYNAMICS OF FLUXIONAL MOLECULES IN SOLID STATE. CYCLOOCTATETRAENE IRON CARBONYL COMPLEXES
JACS, 94, 2690, 1972
- 180 72 035 CARDACI G MURGIA SM FOFFANI A
NEW SIGMA-ALLYLIC AND (SIGMA + PI)-ALLYLIC COMPLEXES FORMED FROM PI-(2-CL-ALLYL)FE(CO)2NO AND
PHOSPHONIC LIGANDS
J. ORGANOMET. CHEM., 37, NO. 1, C11, 1972
- 180 72 036 CASEY CP BUNNELL CA
SYNTHESIS AND DECARBONYLATION OF PYRUVOYL-PENTACARBONYL MANGANESE
JACS, 93, 4077, 1971
- 180 72 037 CATTERMO PE OSBORNE AG
REACTION OF RHODIUM CARBONYL CHLORIDE WITH CARBON MONOXIDE
J. ORGANOMET. CHEM., 37, NO. 1, C17, 1972
- 180 72 038 CENTINI S RATCLIFF B FUSI A
SOLVENT EFFECTS ON INFRARED SPECTRA OF SOME CARBONYL COMPOUNDS CONTAINING HETEROGENEOUS METAL-METAL
BONDS
GAZZ. CHIM. ITAL., 102, 141, 1972
- 180 72 039 CHINI P CAVALIER A MARTINEN S
- MIXED CLUSTER CARBONYL ANIONS CONTAINING NICKEL AND COBALT
COORD. CHEM. REV., 8, NO. 1/2, 3, 1972
- 180 72 040 COLE HA ARMIT PW STEPHENS TA
NOVEL CARBONYLATION PRODUCTS OF RUTHENIUM(II) DITHIOACID COMPLEXES
INORG. NUCL. CHEM. LTRS, 8, 917, 1972
- 180 72 041 COLLMAN JP CAWSE JN BRAUMAN JI
ROLE OF ION PAIRING IN REACTIONS OF METAL CARBONYL ANIONS. 1. CATION ASSISTED ALKYL-ACYL MIGRATORY
INSERTIONS
JACS, 94, 5905, 1972
- 180 72 042 COLTON R RIX CJ
SUBSTITUTED CARBONYL DERIVATIVES OF GROUP-VI TRANSITION METALS. 1. COMPLEXES WITH
BIS(DIPHENYLARSINO)METHANE
AUSTRALIAN J. CHEM., 24, NO. 12, XXX, 1971
- 180 72 043 COLTON R KNAPP JE
CARBONYL HALIDES OF GROUP-VII TRANSITION METALS. 1. HALOCARBONYLS AND HALOCARBONYL ANIONS OF
RHENIUM(II)
AUSTRALIAN J. CHEM., 25, 9, 1972
- 180 72 044 CONNOR JA JONES EM
MASS SPECTRA OF PENTACARBONYLRHODIUM-CARBENE COMPOUNDS CONTAINING HETEROCYCLIC AND VINYLIC
SUBSTITUENTS
J. ORGANOMET. CHEM., 31, 389, 1971
- 180 72 045 CONNOR JA
REACTIONS OF (ACETOXY(2-FURYL)CARBENE)PENTACARBONYL CHROMIUM
J. CHEM. SOC. A, P3368, 1971
- 180 72 046 COMLES RHM
REACTIVITY OF COORDINATED LIGANDS. 11. RELATIVE REACTIVITY OF TRICARBONYLIRONCYCLOHEXADIENONE AND
CYCLOHEPTADIENONE
J. CHEM. SOC., DALTON TRANS., P1768, 1972
- 180 72 047 CROW JP CULLEN WR
SOME FLUOROCARBON BRIDGED DITERTIARY PHOSPHINE DERIVATIVES OF TRIOSMIUM DODECACARBONYL
INORG. CHEM., 10, 1529, 1971
- 180 72 048 CSANTOS G HEIL B MARKO L
SOME PHOSPHINE SUBSTITUTED DERIVATIVES OF CARBOXYLATO RHODIUM CARBONYL COMPLEXES
J. ORGANOMET. CHEM., 37, 103, 1972

- 180 72 049 CULLEN WR HALL LO WARD JE
NUCLEAR MAGNETIC RESONANCE STUDY OF CONFORMATIONAL PREFERENCE OF SOME SUBSTITUTED DITERTIARY ARSINE
CHELATE COMPLEXES OF CHROMIUM CARBONYL
JACS, 94, 5702, 1972
- 180 72 050 CUNOY CS LAPPERT MF
2,1-DIMETHYL-1,1,1,1-TETRACARBONYL-1-FERRA-2-SILACYCLOPENTANE INSERTION OF $(Fe(CO)_4)$ INTO A STRAINED
ORGANOSILICON RING
J. CHEM. SOC. D, CHEM. COMMUN., P445, 1972
- 180 72 051 CURTIS MD
ANOMALOUS REACTIONS OF TRIPHENYLCHLOROSILANE WITH METAL CARBONYL ANIONS
INORG. CHEM., 11, 802, 1972
- 180 72 052 DARENSBO DJ
INFRARED INTENSITIES OF CARBONYL STRETCHING VIBRATIONS IN CYCLOPENTADIENYL IRON DICARBONYL
DERIVATIVES
INORG. CHEM., 11, 1606, 1972
- 180 72 053 DAVISON A ELLIS JE
CHEMISTRY OF GROUP-V METAL CARBONYLS. 4. MIXED METAL SEVEN-COORDINATE COMPLEXES. 5. PREPARATION OF
DERIVATIVES OF TETRACARBONYL(1,2-BIS(DIPHENYLPHOSPHINO)ETHANE)VANADIUM(0)
J. ORGANOMET. CHEM., 36, 113 AND 131, 1972
- 180 72 054 DEBEER JA HAINES RJ GREATREX R
REACTIONS OF METAL CARBONYL DERIVATIVES. 9. SYNTHESIS, INFRARED SPECTRA, AND MOSSBAUER SPECTRA OF
SOME TERTIARY AND DITERTIARY PHOSPHINE, ARSINE, AND STIBINE DERIVATES OF
BIS(MU-METHYLSULPHIDOTRICARBONYL IRON)
J. CHEM. SOC. A, NO. 21, XXX, 1971
- 180 72 055 DEBEER JA HAINES RJ
REACTIONS OF METAL CARBONYL DERIVATIVES. 11. TERTIARY PHOSPHINE, PHOSPHITE, AND STIBINE AND
DITERTIARY PHOSPHINE AND ARSINE DERIVATIVES OF BIS(MU-PHENYLSULPHIDOTRICARBONYL IRON). 13.
REACTION OF BIS(MU-(TERT-BUTYLSULPHIDO)TRICARBONYL IRON) WITH TERTIARY AND DITERTIARY PHOSPHINES
AND PHOSPHITES
J. ORGANOMET. CHEM., 36, 297, AND 37, 173, 1972
- 180 72 056 DECKELMANN K WERNER H
B,B,B-TRIMETHYL-N,N,N-TRIATHYLBORAZIN UND B,B,B-TRIATHYL-N,N,N-TRIMETHYLBORAZIN MOLYBDANTRICARBONYL
HELV. CHIM. ACTA, 54, 2189, 1971 IN GERMAN
- 180 72 057 DEEMING AJ
CHEMISTRY OF POLYNUCLEAR COMPOUNDS. 24. SOME CATIONIC CARBONYL DERIVATIVES OF RUTHENIUM: PREPARATION
OF NONACARBONYL(MU(3)-(SULPHIDO-MU(2)-(DIHYDRIDO))TRIRUTHENIUM
J. CHEM. SOC. A, P2701, 1971
- 180 72 058 DELBEKE FT CLAEYS EG VAN DER KE GP
TRANSITION METAL CHEMISTRY. 7. CALCULATION OF CO STRETCHING FORCE CONSTANTS AND SEPARATION OF
MESOMERIC AND INDUCTIVE EFFECTS FOR $LM(CO)_5$ COMPLEXES
J. ORGANOMET. CHEM., 28, 391, 1971
- 180 72 059 DEWIT D FAWCETT JP POE AJ
RECENT KINETIC STUDIES OF METAL-METAL BONDED CARBONYLS
COORD. CHEM. REV., 8, 81, 1972
- 180 72 060 DOBSON GR BROWN RA
- OCTAHEDRAL METAL CARBONYLS. 23. METAL-CARBON STRETCHING SPECTRA FOR DISUBSTITUTED DERIVATIVES OF
GROUP-VIB METAL CARBONYLS
J. INORG. NUCL. CHEM., 34, 2785, 1972
- 180 72 061 DOMINGOS AJ JOHNSON BF LEWIS J
REACTION OF DODECACARBONYLTRIRUTHENIUM WITH BICYCLO(3.2.1)-2,6-OCTADIENE
J. ORGANOMET. CHEM., 36, NO. 2, C43, 1972
- 180 72 062 DOTZ KH FISCHER EO
UBERGANGSMETALL-CARBEN KOMPLEXE. 42. SYNTHESE VON CYCLOPROPAN DERIVATEN AUS ALPHA,BETA-UNGESATTIGTEN
CARBONAUREESTERN MIT HILFE VON UBERGANGSMETALL-CARBONYL-CARBEN KOMPLEXEN
CHEM. BER., 105, 1356, 1972
- 180 72 063 DUNN JG EDWARDS DA
REACTIONS OF GROUP-VI METAL CARBONYLS WITH SOME TERDENTATE NITROGEN DONOR LIGANDS AND OXIDATION OF
PRODUCTS WITH IODINE
J. ORGANOMET. CHEM., 36, 153, 1972
- 180 72 064 EADY CR JOHNSON BF LEWIS J
PRODUCTS FROM PYROLYSIS OF $Ru_3(CO)_{12}$ AND $Os_3(CO)_{12}$
J. ORGANOMET. CHEM., 37, NO. 2, C39, 1972
- 180 72 065 EATON SS EATON GR HOLM RH
INTER AND INTRAMOLECULAR LIGAND EXCHANGE REACTIONS OF RUTHENIUM(II) CARBONYL PORPHINE COMPLEXES WITH
NITROGEN BASES
J. ORGANOMET. CHEM., 39, 179, 1972
- 180 72 066 EHRL W VAHRENKAMP H
ZWEIKERNIGE CARBONYL KOMPLEXE VON METALLEN DER SECHSTEN UND SIEBENTEN NEBENGROUPE MIT EINFACHER
PHOSPHIN AND ARSINBRUCKE
CHEM. BER., 104, 3261, 1971
- 180 72 067 EISENSTE O LEFOUR J MINOT C
CHIMIE ORGANIQUE. ORIENTATION DES ADDITIONS D'ORGANOMETALLIQUES SUR LES CARBONYLES CONJUGUES.
INFLUENCE DE LA MOLLESSE DES REACTIFS
COMP. REND., SER. C, 274, 1310, 1972
- 180 72 068 FARONA MF KRAUS KF
SIGMA AND PI-BONDED, DINITRILE COMPLEXES OF $Mn(I)$ AND $Re(I)$ CARBONYL HALIDES
J. CHEM. SOC. D, CHEM. COMMUN., P513, 1972
- 180 72 069 FEHLHAMM TW DAHL LF
STRUCTURE AND BONDING OF TETRAMERIC CYCLOPENTADIENYL IRON CARBONYL MONOCATION. ($Fe_4(H_5)C_5H_5(CO)_4(+)$). STEREOCHEMICAL EFFECT DUE TO OXIDATION OF A COMPLETELY BONDING
TETRAHEDRAL METAL CLUSTER SYSTEM
JACS, 94, 3399, 1972

- 180 72 070 FENN RH GRAHAM AJ
CRYSTAL STRUCTURE OF SOME DICARBONYL ALLYL DERIVATIVES OF SUBSTITUTED CARBONYLS OF MOLYBDENUM. 3.
CRYSTAL STRUCTURE OF DICARBONYL-2,2'-BIPYRIDINEPYRIDINE-PI-ALLYLMOLYBDENUM TETRAFLUOROBORATE. ((
CO)₂(C(13)H₅N₂)).
J. ORGANOMET. CHEM., 37, 137, 1972
- 180 72 071 FERRARI GF ANDRETTI A PREGAGLI GF
CATALYSIS BY PHOSPHINE COBALT CARBONYL COMPLEXES. 5. KINETICS OF HOMOGENEOUS CYCLOHEXENE
HYDROGENATION CATALYZED BY COH(CO)₂(P(N-C₄H₉)₃)₂
J. ORGANOMET. CHEM., 43, 213, 1972
- 180 72 072 FIELDHOUSE SA
PREPARATION OF (NONACARBONYLTRICOBALT(METHOXY))(TETRCARBONYLCOBALT) SILICON(IV) DERIVATIVES
J. CHEM. SOC. A, P2536, 1971
- 180 72 073 FISCHER ED WINKLER E KREITER CG
ATHOXYDIMETHYL AMINOCARBENPENTACARBONYL CHROM(0)
ANGEW. CHEM., 83, 1021, 1971
- 180 72 074 FISCHER ED BECK HJ
PHENYLALKOXYCARBEN ALS LIGAND IN CYCLOPENTADIENYLCARBONYLNITROSYL KOMPLEXEN DES CHROMS, MOLYBDANS
UND WOLFRAMS
CHEM. BER., 104, 3101, 1971 IN GERMAN
- 180 72 075 FISCHER ED WINKLER E MUTTNER G
TRANSITION METAL CARBENE COMPLEXES AS PI-LIGANDS(ETHOXY-(2,6-DIMETHOXYPHENYL)CARBENE-TETRCARBONYL
IRON(0))TRICARBONYLIRON(0)
ANGEW. CHEM. INT. ED. ENGL., 11, 238, 1972
- 180 72 076 FISCHER ED LEUPOLD M KREITER CG BECK H KREISSL FR
UBERGANGSMETALL-CARBEN KOMPLEXE. 36. MERCAPTOCARBENPENTACARBONYL KOMPLEXE VON CHROM(0) UND
WOLFRAM(0). 38. ARYLALKOXY, ARYLDIALKYLAMINO, UND DIALKYLAMINOALKOXYCARBENE ALS LIGANDEN IN
KOMPLEXEN DES TYPES FE(CO)₄L. 40. REAKTIONEN VON (METHOXY(PHENYL)CARBEN)PENTACARBONYL CHROM(0) MIT
AMINEN. 48. CIS-BIS(DIMETHYLPHOSPHINO(ATHOXY)CARBEN)TETRCARBONYL CHROM(0) UND WOLFRAM(0), ZWEI
NEUARTIGE BIS-CARBENKOMPLEXE
CHEM. BER., 105, 150, 162, 599, AND 2558, 1972
- 180 72 077 FISCHER ED HERRMANN WA
UBERGANGSMETALL-PHOSPHIN KOMPLEXE. 9. UBER AQ-PHOSPHINNONACARBONYL-DIMANGAN(0)
CHEM. BER., 105, 286, 1972
- 180 72 078 FISCHER ED
UBER METHYL(METHOXY) UND PHENYL(METHOXY)CARBEN KOMPLEXE DES DITECHNETIUM UND DIRHENIUMDECACARBONYLS.
EINEN PHENYL(METHOXY)CARBEN KOMPLEX DES MANGAN-RHENIUMDECACARBONYLS UND DAS MANGANPENTACARBONYL
RADIKAL
CHEM. BER., 105, 3027, 1972
- 180 72 079 FISCHER ED KREISSL FR FONTANA S
UBERGANGSMETALL-CARBEN KOMPLEXE. 43. PHENYLACETYLENYLATHOXYCARBEN ALS LIGAND AM CHROM(0) UND
WOLFRAM(0)-PENTACARBONYL GERUST. 45. UBER DIE REAKTION VON LITHIUMACETYL-PENTACARBONYLCHROMAT MIT
DICYCLOPENTADIENYLTITANDICHLORID. 46. UMSETZUNGEN VON METHYLMETHOXYCARBENPENTACARBONYL CHROM(0)
MIT DIAMINEN
J. ORGANOMET. CHEM., 35, 47, AND 40, 159 AND 367, 1972
- 180 72 080 FISCHER ED KNAUSS L KEITER RL
TUNGSTEN(183)-PHOSPHORUS(31) SPIN-SPIN COUPLING INTERACTIONS IN PHOSPHORUS TRIHALIDE

PENTACARBONYLTUNGSTEN COMPLEXES
J. ORGANOMET. CHEM., 37, NO. 1, C7, 1972
- 180 72 081 FLESCH GD SVEC HJ
FRAGMENTATION MECHANISMS FOR METAL HEXACARBONYLS BY DECONVOLUTION-CONVOLUTION OF IONIZATION
EFFICIENCY DATA
J. CHEM. PHYS., 55, 4310, 1971
- 180 72 082 FOSTER MS BEAUCHAMP JL
POTENTIAL OF ION CYCLOTRON RESONANCE SPECTROSCOPY FOR STUDY OF INTRINSIC PROPERTIES AND REACTIVITY
OF TRANSITION METAL COMPLEXES IN GAS PHASE. ION-MOLECULE REACTIONS OF IRON PENTACARBONYL
JACS, 93, 4924, 1971
- 180 72 083 FRENI M GIUSTO D ROMITI P
NEW CARBONYLHYDRIDES OF RHENIUM
J. INORG. NUCL. CHEM., 33, NO. 12, XXX, 1971
- 180 72 084 FUKUNOTO T MASTUMUR Y OKAWARA R
PREPARATION AND PROPERTIES OF BIS(DIORGANOSTIBINO)METHANE SUBSTITUTED METAL CARBONYL COMPLEXES
J. ORGANOMET. CHEM., 37, 113, 1972
- 180 72 085 GANSOW DA BURKE AR LAMAR GN
SHIFTLESS RELAXATION REAGENT FOR CARBON(13) MAGNETIC RESONANCE OF ORGANOMETALLIC CARBONYL COMPOUNDS
J. CHEM. SOC. D. CHEM. COMMUN., P456, 1972
- 180 72 086 GANSOW DA SCHEXNAY DA KIMURA BY
CORRELATION BETWEEN INFRARED STRETCHING FREQUENCIES AND CARBON(13) CHEMICAL SHIFTS FOR SOME
PI-CYCLOPENTADIENYL IRON CARBONYLS
JACS, 94, 3406, 1972
- 180 72 087 GARNOVSK AD KOLOBOVA NE ZLOTINA IB
TUNGSTEN CARBONYL COMPLEXES WITH AZOLES
IZV. AKADE. NAUK SSSR, SER. KHIM., P629, 1972
- 180 72 088 GARNOVSK AD KOLOBOVA NE OSIPOV DA
COMPLEX COMPOUNDS OF METALS WITH NITROGEN CONTAINING LIGANDS. 28. AZOLE COMPLEXES WITH CHROMIUM AND
TUNGSTEN CARBONYLS
ZH. OBSHCH. KHIM., 42, 929, 1972
- 180 72 089 GHENG HS YEH SJ CHENG PK
MOSSBAUER STUDY OF SOME GAMMA AND NEUTRON IRRADIATED IRON CARBONYL COMPLEXES
J. CHIN. CHEM. SOC. (TAIWAN), 18, 179, 1971

- 180 72 090 GILBERT JR
OCCURRENCE OF BINUCLEAR SPECIES IN MASS SPECTRA OF ARENE CHROMIUM TRICARBONYL DERIVATIVES
J. ORGANOMET. CHEM., 30, NO. 1, C41, 1971
- 180 72 091 GILBERT JR LEACH WP MILLER JR
HAMMETT CORRELATION IN ION-MOLECULE REACTIONS OF ARENE CHROMIUM TRICARBONYL DERIVATIVES
J. ORGANOMET. CHEM., 42, NO. 1, C51, 1972
- 180 72 092 GILCHRIST TL
REACTION OF 1,2,3-THIA DIAZOLES AND 1,2,3-SELENA DIAZOLES WITH NONACARBONYL DIIRON
J. CHEM. SOC., PERKIN TRANS. 1, P2165, 1972
- 180 72 093 GOGAN NJ DAVIES CS
CHROMIUM AND MANGANESE CARBONYL PI-COMPLEXES OF 2-BENZYLPIRROLE AND 2-PHENYLPYRROLE. SPECTRA AND ELECTRONIC EFFECTS
J. ORGANOMET. CHEM., 39, 129, 1972
- 180 72 094 GOLDBERG SZ DUESLER EN RAYMOND KN
CRYSTAL AND MOLECULAR STRUCTURE OF $(\text{Mn}(\text{CO})_4(\text{C}_2\text{P}(\text{C}_6\text{H}_5)_3)_2\text{Br})$. COORDINATION COMPOUND OF UNUSUAL CARBONYL-YLIDE REACTION PRODUCT $(\text{C}_6\text{H}_5)_3\text{P}(+)\text{-C}\equiv\text{C}\text{-TRIPLE BOND-C}(-)$
INORG. CHEM., 11, 1397, 1972
- 180 72 095 GRAHAM MA PERUTZ RN POLLAKOF M
INTERMEDIATES IN CHROMIUM CARBONYL PHOTOCHEMISTRY
J. ORGANOMET. CHEM., 34, NO. 2, C34, 1972
- 180 72 096 GREENE RN
NOVEL TRICARBONYLDIENE IRON COMPLEXES FROM REACTION OF 2-BROMOBUTA-1,3-DIENE WITH CARBONYL IRONS
J. CHEM. SOC. C, P3115, 1971
- 180 72 097 HAINES RJ NOLTE CR
REACTIONS OF METAL CARBONYL DERIVATIVES. 10. SYNTHESIS AND REACTIVITY OF SOME DINUCLEAR DERIVATIVES OF IRON CONTAINING BOTH BRIDGING CARBONYLS AND BRIDGING PHOSPHIDO OR SULPHIDO GROUPS
J. ORGANOMET. CHEM., 36, 163, 1972
- 180 72 098 HART-DAVIS AJ GRAHAM WAG
SILICON-TRANSITION METAL CHEMISTRY. 6. KINETICS AND MECHANISM OF REPLACEMENT OF TRIPHENYLSILANE BY TRIPHENYLPHOSPHINE IN HYDRIDOTRIPHENYLSILYL(PI-CYCLOPENTADIENYL)DICARBONYL MANGANESE
JACS, 93, 4388, 1971.
- 180 72 099 HINES LF STILLE JK
STEREOCHEMISTRY OF CARBONYLATION OF SOME DIENE PALLADIUM(II) COMPLEXES AND THEIR CORRESPONDING CARBON-PALLADIUM(II) SIGMA-BONDED OXYMETALLATION PRODUCTS
JACS, 94, 485, 1972
- 180 72 100 HOBDAY MD SMITH TO
REACTION OF ANTIMONY HALIDES AND TRANSITION METAL CARBONYLS WITH TRANSITION METAL ION-SCHIFF BASE COMPLEXES
J. CHEM. SOC. A, NO. 21, XXX, 1971
- 180 72 101 HOWARD JW GRIMES RN
REACTIONS OF THE 2,3,4-TRICARBAHEXABORANE(7) SYSTEM. FORMATION OF TRICARBAHEXABORANYL MANGANESE CARBONYL PI-COMPLEXES
INORG. CHEM., 11, 263, 1972. 19 REFERENCES
- 180 72 102 HOWELL JA JOHNSON BF JOSTY PL

SYNTHESIS AND REACTIONS OF TETRACARBONYL AND TRICARBONYL IRON COMPLEXES OF ALPHA,BETA UNSATURATED KETONES
J. ORGANOMET. CHEM., 39, 329, 1972
- 180 72 103 HOYAND JK GRAHAM WA
SILICON-TRANSITION METAL CHEMISTRY. 5. PHOTOCHEMICAL REACTIONS OF MONOFUNCTIONAL SILANES WITH RHENIUM CARBONYL
INORG. CHEM., 11, 1265, 1972
- 180 72 104 HSIEN ATT
MASS SPECTRA OF SOME HALOMERCURY DERIVATIVES OF TRANSITION METAL CARBONYL COMPOUNDS
J. MASS SPECTRY. ION PHYS., 7, 297, 1971
- 180 72 105 HSIEN ATT MAYS MJ
PENTACARBONYL RHENIUM COMPLEXES OF ZINC, CADMIUM, AND MERCURY
J. CHEM. SOC. A, P2648, 1971
- 180 72 106 HSIEN ATT
INFRARED MOSSBAUER SPECTRA OF TETRACARBONYLCADMIUM IRON AND RELATED COMPLEXES
J. CHEM. SOC. A, P3296, 1971
- 180 72 107 HSIEN ATT MAYS MJ
PENTACARBONYL MANGANESE COMPLEXES OF INDIUM
J. CHEM. SOC., DALTON TRANS., P516, 1972
- 180 72 108 HSIEN ATT MAYS MJ
NEW IRON-MOLYBDENUM AND IRON-TUNGSTEN ANIONIC CARBONYL CLUSTERS
J. ORGANOMET. CHEM., 39, 157, 1972
- 180 72 109 INGLIS T KILNER M
CARBONYLS-HIGH PRESSURE COMPLEXES OF PALLADIUM AND PLATINUM TRIPHENYLPHOSPHINES
NATURE (LONDON) PHYS. SCI., 239, NO. 88, 13, 1972
- 180 72 110 IZOD TP KISTIAKO GB MATSUDA S
MECHANISM OF OXIDATION OF CARBON MONOXIDE IN PRESENCE OF CHROMIUM CARBONYL
J. CHEM. PHYS., 56, 1083, 1972
- 180 72 111 JAKUBINEK H SRINIVASAN SC WILES DR
NUCLEAR RECOIL REACTIONS IN ORGANOMANGANESE COMPOUNDS. 5. $-\text{Mn}(\text{CO})_5$ TARGET COMPOUNDS
CAN. J. CHEM., 49, 2175, 1971
- 180 72 112 JONES CJ
BIS(TRIFLUOROMETHYL)DITHIOLENE TRICARBONYL IRON AND ITS LEWIS BASE DERIVATIVES
J. CHEM. SOC., DALTON TRANS., P1109, 1972

- 180 72 113 KAIJU Y KOBAYASH H
COMPLEXES COORDINATED BY 2,2'-BIPYRIDINE NEGATIVE IONs. 2. SODIUM-2,2'-BIPYRIDINETETRACARBONYL
CHROMIUM, MOLYBDENUM, AND WOLFRAM
BULL. CHEM. SOC. JAPAN, 45, 470, 1972
- 180 72 114 KANELAKOPOULOS-D W WILES DR
SZILARD-CHALMERS REACTIONS IN DICYCLOPENTADIENYLDIIRON TETRACARBONYL
CAN. J. CHEM., 49, 2977, 1971
- 180 72 115 KANG D BURG AB
(ALKYL(FLUOROCARBON)PHOSPHINE) NICKEL CARBONYLS. EFFECT OF BOND COMPETITION UPON LIGAND EXCHANGE
EQUILIBRIA
INORG. CHEM., 11, 902, 1972
- 180 72 116 KEABLE HR KILNER M
ORGANONITROGEN GROUPS IN METAL CARBONYL COMPLEXES. 4. ISOMERIC FORMS OF AZA-ALLYL-ALLENE COMPLEXES
OF MOLYBDENUM AND TUNGSTEN
J. CHEM. SOC. D, P153, 1972
- 180 72 117 KIENER V FISCHER EO
REAKTIONEN AN DI-MU-ACYLDIEISENHXACARBONYL KOMPLEXEN
J. ORGANOMET. CHEM., 42, 447, 1972
- 180 72 118 KING RB SARAN MS
POLYCYANOVINYL, DICYANOMETHYLENECARBENE, AND DICYANOMETHYLENE DERIVATIVES OF METAL CARBONYLS
JACS, 94, 1784, 1972, AD-736 233, 1972
- 180 72 119 KING RB EFRATY A
REACTIONS OF TRANSITION METAL COMPOUNDS WITH MACROCYCLIC ALKADIYNEs. 1. INTRAMOLECULAR TRANSANNULAR
CYCLIZATIONS WITH CYCLOPENTADIENYLDICARBONYL COBALT
JACS, 94, 3021, 1972
- 180 72 120 KING RB EFRATY A
PENTAMETHYLCYCLOPENTADIENYL DERIVATIVES OF TRANSITION METALS. 2. SYNTHESIS OF
PENTAMETHYLCYCLOPENTADIENYL METAL CARBONYLS FROM S-ACETYL-1,2,3,4,5-PENTAMETHYLCYCLOPENTADIENE
JACS, 94, 3773, 1972
- 180 72 121 KING RB HAIDUC I
SOME RING SIZE EFFECTS IN INTRAMOLECULAR TRANSANNULAR CYCLIZATIONS OF MACROCYCLIC ALKADIYNEs WITH
IRON CARBONYLS
JACS, 94, 4044, 1972
- 180 72 122 KING RB EFRATY A ZIPPERER WC
REACTIONS OF ALKALI METAL DERIVATIVES OF METAL CARBONYLS. 12. NONOCCURRENCE OF RING OPENING IN
REACTION OF SODIUMCYCLOPENTADIENYLDICARBONYL FERRATE WITH 1,2-DIBROMOBENZOCYCLOBUTENE
J. ORGANOMET. CHEM., 38, 121, 1972
- 180 72 123 KING RB EAVENSON CW
UNUSUAL TRIMETALLIC PRODUCT FROM 2,4-HEXADIENE AND DODECACARBONYLTRIIRON
J. ORGANOMET. CHEM., 42, NO. 2, C95, 1972
- 180 72 124 KING RB ZIPPERER WC ISHAQ M
METAL COMPLEXES OF FLUOROPHOSPHINES. 1. REACTIONS OF CYCLOPENTADIENYLMETAL CARBONYLS WITH
DIALKYLAMINODIFLUOROPHOSPHINES
INORG. CHEM., 11, 1361, 1972
- 180 72 125 KIPNIS AY MIKHAILO NF SHVARTSM RA
EXTRINSIC MAGNETOCHEMICAL EFFECT ON REACTION RATE OF SYNTHESIS OF NICKEL AND IRON CARBONYLS
ZH. FIZ. KHIM., 46, 1584, 1972 IN RUSSIAN
- 180 72 126 KNIGHT J MAYS MJ
STUDY OF REACTION OF SERIES OF NEUTRAL METAL CARBONYLS $M_3(CO)_2$ ($M = Fe, Ru, Or Os$) WITH THE METAL
CARBONYL ANIONS $(M'(CO)_5)^{-}$ ($M' = Mn Or Re$)
J. CHEM. SOC., DALTON TRANS., P1022, 1972
- 180 72 127 KNOX SAR HOXMEIER RJ KAESZ HD
ON QUESTION OF CARBONYL STRETCHING ABSORPTIONS IN $MnRe(CO)_2(10)$ AND $(C_5H_5)(CO)_3Mn(CO)_5$ AND CLEAVAGE
OF TUNGSTEN-MANGANESE BOND BY CARBON TETRACHLORIDE
INORG. CHEM., 10, 2676, 1971
- 180 72 128 KRAIHAENZEL CS
OBSERVATIONS OF POLYMETAL CARBONYL CATIONS IN MASS SPECTRA OF GROUP-VI METAL HEXACARBONYLS
J. CHEM. SOC. C, CHEM. COMMUN., P159, 1971
- 180 72 129 KRAIHAENZEL CS BARTISH CM
REACTIONS OF COORDINATED LIGANDS. 1. MOLYBDENUM CARBONYL COMPLEXES OF DIMETHYL AND
DIPHENYLPHOSPHINOUS ACIDS AND OF SEVERAL DIPHOSPHOXANES
JACS, 94, 3572, 1972
- 180 72 130 KREISSL FR KREITER CG FISCHER EO
DIMETHYLPHOSPHAN(PHENYLMETHOXY)METHYLEN PENTACARBONYL CHROM(0) EIN WEG CARBEN-ZU YLID KOMPLEXEN
ANGEW. CHEM., 84, 679, 1972
- 180 72 131 KUKUSHKI YN DANILINA LI SINGKH MM
CONVERSIONS OF RHODIUM CARBONYLS AND NITROSYLS
ZH. NEORG. KHIM., 16, 2718, 1971
- 180 72 132 KUNICHIK S SAKAKIBA Y OKAMOTO T
CARBOXYLATION REACTION USING NICKEL CATALYSTS. 5. CATALYTIC REACTION OF PROPENE WITH NICKEL CARBONYL
AND NICKEL CARBONYL-TRIPHENYLPHOSPHINE
BULL. CHEM. SOC. JAPAN, 44, 3405, 1971
- 180 72 133 KURSANOV DN SETKINA VN BARANETS NK
ON PECULIAR EFFECT OF CARBOMETHOXYL SUBSTITUENT ON VELOCITY OF ACIDIC ISOTOPE EXCHANGE OF HYDROGEN
IN BENZOCHROMIUMDICARBONYL-TRIPHENYLPHOSPHINE SYSTEM
DOKL. AKADE. NAUK SSSR, 202, 601, 1972
- 180 72 134 KURSANOV DN SETKINA VN PEIHUVSK PV
PROTONATION OF METAL CARBONYL COMPLEXES. 2. A PMR SPECTROSCOPIC STUDY OF PROTONATION IN
ARENECROMIUM TRICARBONYLS AND ARENECHROMIUM DICARBONYL TRIIPHENYLPHOSPHINES
J. ORGANOMET. CHEM., 37, 339, 1972

- 180 72 135 LAINE RM MORIARTY RE BAU R
MOLECULAR STRUCTURE OF TRIS(DIPHENYLACETYLENE) TUNGSTEN MONOCARBONYL
JACS. 94. 1402. 1972
- 180 72 136 LANDESBERG JM
REDUCTION OF NITROARYLS BY DODECACARBONYLTRIIRON-METHANOL
J. ORG. CHEM., 37. 930. 1972
- 180 72 137 LINDNER E
ROTATIONISOMERIE BEI PHOSPHIN SUBSTITUIERTEN TRICARBONYLACYL KOBALT KOMPLEXEN
CHEM. BER., 104. 1524. 1971
- 180 72 138 LITTLE RG DOEDENS RJ
STRUCTURAL STUDIES ON ORGANONITROGEN COMPOUNDS OF TRANSITION ELEMENTS. 5. STRUCTURE OF MU-2,3-(2,3-DIAZABICYCLO(2.2.1)HEPTANE)DIYLBIS(TRICARBONYL IRON), C₅H₈N₂FE₂(CO)₆. AN IRON CARBONYL COMPLEX OF A BICYCLIC ALIPHATIC AZO COMPOUND
INORG. CHEM., 11. 1392. 1972
- 180 72 139 LOKSHIN BV ZOANOVIC VI BARANETS NK GINZBURG AG SETKINA VN
PROTONATION OF METAL CARBONYL COMPLEXES. 1. INFRARED STUDY OF ARENECHROMIUM TRICARBONYL AND ARENECHROMIUM DICARBONYL TRIPHENYLPHOSPHINE COMPLEXES. 3. CYCLOPENTADIENYL CARBONYL COMPLEXES OF MANGANESE
J. ORGANOMET. CHEM., 37. 331 AND 347. 1972
- 180 72 140 MADDEN DP CARTY AJ BIRCHALL T
METAL CARBONYL COMPLEXES OF CYCLIC AZINES. 1. REACTIONS OF FE₂(CO)₉, RU₃(CO)₁₂, AND (Rh(CO)₂Cl)₂ WITH 3,5,7-TRIPHENYL-4H-1,2-DIAZEPINE AND 3,5,7-TRIPHENYL-4,5,6-TRIHYDRO-1,2-DIAZEPINE
INORG. CHEM., 11. 1453. 1972
- 180 72 141 MARKEZICH RL
ISOMERIZATION OF POLYENE-IRON TRICARBONYLS AND HYDROGEN/DEUTERIUM EXCHANGE IN DIENE-IRON TRICARBONYLS
THESIS. UNIV. OF WISCONSIN, MADISON. 1971. 249P. UNIV. MICROFILMS ORDER NO. 71-20.678
- 180 72 142 MARKEZICH RL WHITLOCK HW
SYNTHESIS AND INTERCONVERSION OF TWO DIASTEREODISOMERIC POLYENE-BIS(IRON TRICARBONYL) COMPLEXES
JACS. 93. 5291. 1971
- 180 72 143 MARKS TJ
DIALKYLGERMYLENE AND STANNYLENEPENTACARBONYL CHROMIUM COMPLEXES
JACS. 93. 7090. 1971
- 180 72 144 MATHESON TW
CHEMISTRY OF METHINYLTRICOBALT ENNEACARBONYLS. 5. TERTIARY PHOSPHINE AND ARSINE DERIVATIVES
J. CHEM. SOC. A. P1457. 1971
- 180 72 145 MISSNER K KOROLKOV DV
BASE FUNCTIONS OF LIGANDS IN ELECTRON STRUCTURE CALCULATIONS OF MULTINUCLEAR CARBONYLS OF TRANSITION METALS. CALCULATION OF RE(CO)₅ ELECTRON STRUCTURE
ZH. STRUKT. KHIM., 12. 1062. 1971
- 180 72 146 MOELWYN-HUGHES JT
1. REACTION OF HALOGENOPHOSPHINECARBONYL RHENIUM(II) COMPLEXES WITH ANHYDROUS HYDRAZINE: PREPARATION OF ISOCYANATO DERIVATIVES OF RHENIUM(II). 2. REACTION OF BROMOTRICARBONYLBIS(DIMETHYLPHENYLPHOSPHINE) MANGANESE(II) WITH ANHYDROUS HYDRAZINE TO YIELD ISOCYANATO(DICARBONYL)HYDRAZINEBIS(DIMETHYLPHENYLPHOSPHINE) MANGANESE(II)
J. CHEM. SOC. A. P2361 AND P2371. 1971
- 180 72 147 MULLER H HERBERICH GE
GEOMETRISCH ISOMERE DERIVATE DES TRICARBONYLCYCLOPENTADIEN EISENS
CHEM. BER., 104. 2772. 1971
- 180 72 148 NASTA MA MACDIARMID AG SAALFELD FE
ISOLATION OF A DIMERIC FORM OF BIS(TRIMETHYLSILYL) IRON TETRACARBONYLS
JACS. 94. 2449. 1972
- 180 72 149 NATILE G BOR G
STUDIES OF DIFFERENCES IN LIGAND TRANSFER, STABILITY, AND FRAGMENTATION ON ELECTRON IMPACT OF SOME ORGANOSULPHUR DERIVATIVES OF COBALT AND IRON CARBONYLS
J. ORGANOMET. CHEM., 35. 185. 1972
- 180 72 150 NATILE G PIGNATARO S INNORTA G
USE OF MASS SPECTROMETER IN ELUCIDATION OF ORGANOMETALLIC COMPLEX STRUCTURES: STUDY OF TWO NEW CARBONYL CLUSTERS OF COBALT, SCD₄(CO)₉(P(CH₃)₂)₂ AND S₂CO₃(CO)₇(P(CH₃)₂)₂
J. ORGANOMET. CHEM., 40. 215. 1972
- 180 72 151 NEFEDOVA MN SETKINA VN KHATAMI AI GINZBURG AG KURSANOV DN
ISOTOPE EXCHANGE OF HYDROGEN IN ETHYL AND BENZYL DERIVATIVES OF C₅H₅Mn(CO)₃ AND C₅H₅Mn(CO)₂CP(Ph)₃
DOKL. AKADE. NAUK SSSR. 198. 889. 1971 IN RUSSIAN
- 180 72 152 NESMEYANOV AN
MASS SPECTROMETRY OF PI-COMPLEXES OF TRANSITION METALS. 1. INFLUENCE OF SIGMA BONDED LIGANDS ON THE FRAGMENTATION OF PI-ALLYL DERIVATIVES OF IRON CARBONYL
J. ORGANOMET. CHEM., 33. 375. 1971
- 180 72 153 NESMEYANOV AN RYBIN LV RYBINSKA NI
1. SYNTHESIS OF BINUCLEAR COMPLEXES OF TRANSITION METALS. 3. SYNTHESIS OF SIGMA,PI-BINUCLEAR COMPLEX BASED ON SIGMA-STYRYL AND SIGMA-CINNAMOYL-PI-CYCLOPENTADIENYL IRON DICARBONYL. 2. PI-COMPLEXES OF ALPHA,BETA-DIBENZOYLETHYLENE WITH IRON CARBONYLS
IZV. AKADE. NAUK SSSR. SER. KHIM., P2733 AND P2739. 1971
- 180 72 154 NESMEYANOV AN CHURANOV SS GUZMAN IS MAKAROVA LG POLOVYAN IV
1. REACTIONS OF SIGMA-BENZYL-PI-CYCLOPENTADIENYLDICARBONYL IRON. 2. INFLUENCE OF PHOSPHORUS LIGAND NATURE ON CHARACTER OF INTERACTION BETWEEN CENTRAL ATOM AND SURROUNDING LIGANDS IN SIGMA-ARYLCYCLOPENTADIENYL IRON CARBONYL COMPLEXES
IZV. AKADE. NAUK SSSR. SER. KHIM., P570 AND P607. 1972
- 180 72 155 NESMEYANOV AN MAKAROVA LG VINOGRAD VN
REACTIONS OF GEJ₂ WITH (PI-C₅H₅M(CO)₂)₂Hg
IZV. AKADE. NAUK SSSR. SER. KHIM., P1449. 1972

- 180 72 156 NESMEYANOV AN LESHCHIEV IF POLOVYAN IV
NMR STUDY OF SOME CYCLOPENTADIENYL IRON CARBONYL DERIVATIVES
J. ORGANOMET. CHEM., 37, 159, 1972
- 180 72 157 NEUMAN MA TOAN T DAHL LF
STRUCTURAL CHARACTERIZATION OF CYCLOPENTADIENYL IRON CARBONYL TETRAMER, $Fe_4(H_5-C_5H_5)_4(CO)_4$, A
CUBANE TYPE STRUCTURE CONTAINING A COMPLETELY BONDING TETRAMETAL CLUSTER UNIT
JACS, 94, 3383, 1972
- 180 72 158 NEUMANN G NEUMANN WP
SYNTHESEN MIT VERBINDUNGEN $R_3M-HG-MR_3$ UND $(R_2M-HG(N))$, ($M = C, Si, Ge, Sn$). 9. REDUKTIVE SILYLIERUNG
VON CARBONYL VERBINDUNGEN MITTELS BIS(TRIMETHYLSILYL) QUICKSILBER
J. ORGANOMET. CHEM., 42, 277, 1972
- 180 72 159 NORTON JR COLLMAN JP DOLCETTI G ROBINSON WT
PREPARATION AND STRUCTURE OF RUTHENIUM AND OSMIUM NITROSYL CARBONYL CLUSTERS CONTAINING DOUBLE
NITROSYL BRIDGES
INORG. CHEM., 11, 382, 1972, 50 REFERENCES
- 180 72 160 NOYORI R YOKOYAMA K MAKINO S
REACTION OF ALPHA,ALPHA'-DIBROMOKETONES AND ENAMINES WITH AID OF IRON CARBONYLS. NOVEL
CYCLOPENTENONE SYNTHESIS
JACS, 94, 1772, 1972
- 180 72 161 NOYORI R UMEDA I ISHIGAMI T
SELECTIVE HYDROGENATION OF ALPHA,BETA UNSATURATED CARBONYL COMPOUNDS VIA HYDRIDO IRON COMPLEXES
J. ORG. CHEM., 37, 1542, 1972
- 180 72 162 ONQUE H NAKAGAWA K MORITANI I
STABLE PALLADIUM(II) CARBONYL COMPLEXES CONTAINING PALLADIUM-CARBON SIGMA BONDS
J. ORGANOMET. CHEM., 35, 217, 1972
- 180 72 163 OSTFELD D
UNUSUAL METALLOPORPHYRINS. 7. A PORPHYRIN BRIDGING TWO METAL ATOMS:
M₂-(MESOPORPHYRIN-IX-DIMETHYLESTERATO)BIS(TRICARBONYL RHENIUM(I))
JACS, 93, 2548, 1971
- 180 72 164 PANKOWSK M BIGORGNE M
SYNTHESE ET CONFIGURATION D'UN COMPLEXE PENTACOORDINE DERIVE DU NICKEL CARBONYL:
DIIDOCARBONYLBIS(TRIMETHYLPHOSPHINE) NICKEL
J. ORGANOMET. CHEM., 32, 397, 1972
- 180 72 165 PANKOWSK M DEMERSEM B BOUQUET G
ADDITION DES ACIDES DE LEWIS AlX_3 ($X = Cl, Br, I$) ET $FeCl_3$ SUR LES LIGANDS HALOGENE DES DERIVES
HALOGENES DES METAUX CARBONYLE
J. ORGANOMET. CHEM., 35, 155, 1972
- 180 72 166 PAUSON PL
TROPYLIDENE QUINONES AND THEIR TRICARBONYL CHROMIUM COMPLEXES
J. CHEM. SOC. C, P2399, 1971
- 180 72 167 PIACENTI F BIANCHI M FREDIANI P
PREPARATION AND REACTIVITY OF SOME RUTHENIUM CARBONYL HYDRIDES
INORG. CHEM., 10, NO. 12, XXX, 1971
- 180 72 168 PIERPONT CG EISENBER R
- CRYSTAL AND MOLECULAR STRUCTURE OF DIIDOCARBONYLFERROCENE-1,1'-BIS(DIMETHYLARSINE) NICKEL(II).
NICKEL(II) CARBONYL COMPLEX
INORG. CHEM., 11, 828, 1972
- 180 72 169 PIGNATARO S
IS A SHAKE UP PROCESS RESPONSIBLE FOR MULTIPLE PEAK STRUCTURE OF X-RAY PHOTOELECTRON SPECTRA OF METAL
HEXACARBONYLS
Z. NATURFORSCH., 27A, 816, 1972
- 180 72 170 REIMANN RH SINGLETON E
NEW DIPHOSPHINE SUBSTITUTED CARBONYL COMPLEXES OF MANGANESE
J. ORGANOMET. CHEM., 38, 113, 1972
- 180 72 171 ROBINSON BH SPENCER JL
CHEMISTRY OF METHINYLTRICOBALT ENNEACARBONYLS. 6. ARENE DERIVATIVES. 7. PREPARATION AND PROPERTIES
OF A FLUXIONAL MOLECULE, $PHCCO_3(CO)_6C_6H_6$
J. CHEM. SOC. A, P2045, 1971 AND J. ORGANOMET. CHEM., 33, NO. 1, XXX, 1971
- 180 72 172 ROBINSON WR SWANSON ME
SYNTHESIS OF SUBSTITUTED CARBONYLNITROSYLHALIDES OF MOLYBDENUM AND TUNGSTEN
J. ORGANOMET. CHEM., 37, 316, 1972
- 180 72 173 RUPILIUS W ORCHIN M
ISOMERIZATION AND DISPROPORTIONATION OF ACYLCOBALT CARBONYLS
J. ORG. CHEM., 37, 936, 1972
- 180 72 174 SAALFELD FC McDOWELL Wv MALUARMIDU AG HIGHSWORTH RE
NATURE OF BONDING BETWEEN SILICON AND COBALT TETRACARBONYL GROUP IN SILYCOBALT TETRACARBONYL. 3.
MASS SPECTRAL STUDIES OF TRICHLOROSILYLTRIFLUOROPHOSPHINE COBALT CARBONYL DERIVATIVES
J. MASS SPECTRY, ION PHYS., 9, 197, 1972
- 180 72 175 SAPPAL E GAMBINO O CETINI G MILONE L
1. REACTIONS OF $Ru_3(CO)_{12}$ WITH CHALCOGEN COMPOUNDS. 2. REACTIONS OF $Ru_3(CO)_{12}$ WITH ASYMMETRICALLY
SUBSTITUTED ACETYLENES. NEW TYPE OF INTERACTION BETWEEN ACETYLENES AND A METAL ATOM CLUSTER
J. ORGANOMET. CHEM., 37, 375, AND 39, 169, 1972
- 180 72 176 SCHAFER L BEGUN GM CYVIN SJ
RAMAN SPECTRUM OF BENZENECHROMIUM TRICARBONYL
SPECTROCHIM. ACTA, 28A, 803, 1972
- 180 72 177 SCHMID G BOESE R
DIJODSILYLENHPENTACARBONYL WOLFRAM(0)
CHEM. BER., 105, 3307, 1972

- 180 72 178 SEEL F ROSCHENT G
PHOTOCHEMISCHE REAKTIONEN DES PENTACARBONYL EISENS UND NITROSYLTRICARBONYL KOBALTS MIT
DIBROMDIFLUORMETHAN, SYM-DIBROMTETRAFLUORATHAN, UND AS-DIBROMDIFLUORATHYLEN
Z. ANORG. ALLG. CHEM., 386, 297, 1971
- 180 72 179 SEGARD C
STUDIES OF ARENETRICARBONYL CHROMIUM DERIVATIVES BY GAS-LIQUID CHROMATOGRAPHY AND NUCLEAR MAGNETIC
RESONANCE
ANAL. CHEM., 43, 1146, 1971
- 180 72 180 SHANE E BRENNEN W
EXCITATION OF ATOMIC NICKEL IN THE REACTION BETWEEN NICKEL CARBONYL AND ACTIVE NITROGEN
AD-747 649, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151,
1972
- 180 72 181 SHRIVER DF ALICH SA
REACTION OF METAL CARBONYLS WITH LEWIS ACIDS CARBON AND OXYGEN BONDED CO
COORD. CHEM. REV., 8, 15, 1972
- 180 72 182 SLATER JL SHELINE RK LIN KC WELTNER W
SYNTHESIS OF URANIUM CARBONYLS USING MATRIX ISOLATION
J. CHEM. PHYS., 55, 5129, 1971
- 180 72 183 STANGHEL PL ROSSETTI R GAMBINO O
KINETIC STUDY OF REACTIONS OF BIS(CYCLOPENTADIENYL CARBONYL NICKEL) WITH LIGANDS
INORG. CHEM., 10, NO. 12, XXX, 1971
- 180 72 184 STEWART RP OKAMOTO N GRAHAM WA
METHYL AND HYDRIDO (PI-CYCLOPENTADIENYL CARBONYL NITROSYL) RHENIUM
J. ORGANOMET. CHEM., 42, NO. 1, C32, 1972
- 180 72 185 STOCKEL K SONDHEIMER F
REACTION OF (14)ANNULENE WITH TRICARBONYLTRIAMINE CHROMIUM(0). SYNTHESIS AND STRUCTURE OF
HEXACARBONYL-TRANS-6A,12A-DIHYDROOCTALENEDICHRONIUM(0)
JACS, 93, 2571, 1971
- 180 72 186 SULLIVAN RE
A MASS SPECTROMETRIC INVESTIGATION OF SELECTED TRANSITION METAL CARBONYL SYSTEMS
THESIS, KANSAS STATE UNIV., MANHATTAN, 1970. UNIV. MICROFILMS ORDER NO. 70-16,651, DISS. ABS., 318,
3, 1141, 1970
- 180 72 187 SUNDERMAN FM
TOXICOLOGY OF NICKEL CARBONYL
NYO-4051-23, COMPREHENSIVE REPORT OF ACTIVITIES, OCT. 1966 - AUG. 1971, CONNECTICUT UNIV., HARTFORD,
DEPT. OF LAB. MEDICINE, 17P, NTIS
- 180 72 188 TRAHANOVSKY WS CARD RJ
ARENE-METAL COMPLEXES. 4. BASE CATALYZED STEREOSSELECTIVE HYDROGEN-DEUTERIUM EXCHANGE OF BENZYLIC
PROTONS OF TRICARBONYL CHROMIUM(0) COMPLEXED ALKYL BENZENES
JACS, 94, 2897, 1972
- 180 72 189 TREICHEL PM DEAN WK DOUGLAS WM
METAL CARBONYL COMPLEXES OF PHENYLPHOSPHINE AND DIPHENYLPHOSPHINE
J. ORGANOMET. CHEM., 42, 145, 1972
- 180 72 190 TREICHEL PM DOUGLAS WM DEAN WK
1. REACTIONS OF MONO AND BIS(ORGANO)PHOSPHINES WITH IRON CARBONYLS. 2. DEPROTONATION AND SUBSEQUENT
ALKYLATION OF PHOSPHINE-METAL CARBONYL COMPLEXES
INORG. CHEM., 11, 1609 AND 1615, 1972
- 180 72 191 TRINH-TOAN DAHL LF
ORGANOMETALLIC PNICOGEN COMPLEXES. 6. SYNTHESIS, STRUCTURE, AND BONDING OF A NEW IRON-ANTIMONY
CLUSTER COMPLEX, $(\text{IFe}(\text{H}(\text{SI}-\text{CSHS})(\text{CO})_2)_3(\text{SbCl})_2(\text{FeCl}_4)_2\text{CH}_2\text{Cl}_2)$. GELUMINITY OF THE
TETRACHLOROFERRATE(II) ANION AND ITS STEREOCHEMICAL RELATIONSHIP WITH OTHER TETRACHLOROMETALATE
ANIONS
JACS, 93, 2654, 1971
- 180 72 192 UDOVICH CA CLARK RJ
METAL CARBONYL TRIFLUOROPHOSPHINE SYSTEMS. 10. MONO AND TRI RUTHENIUM CARBONYLS
J. ORGANOMET. CHEM., 36, 355, 1972
- 180 72 193 VALLE M GAMBINO O MILONE L
BUTADIENIC DERIVATIVES OF METAL CARBONYLS. 1. REACTIONS OF DODECACARBONYLTRIRUTHENIUM WITH
ARYLBUTADIENES
J. ORGANOMET. CHEM., 38, NO. 2, C46, 1972
- 180 72 194 VAN VUUREN PJ
SYNTHESIS AND CRYSTAL AND MOLECULAR STRUCTURE OF
DICARBONYL-3-(PI-(2-CYCLOHEXADIENYL))-SIGMA-PROPENEYL IRON
JACS, 93, 4394, 1971
- 180 72 195 VARSHAVS YS CHERKASO TG OSIPOV OA
RHODIUM(II) DICARBONYL COMPLEXES WITH SCHIFF BASES, IMIDAZOLES, FORMAZANS OF BENZAZOLE SERIES
Zh. NEORG. KHIM., 17, 1401, 1972 IN RUSSIAN
- 180 72 196 VICTOR R BEN SH SAREL S
PHOTOINDUCED FORMATION OF VINYL CYCLOHEXATRIENE IRON CARBONYL COMPLEXES FROM SUBSTITUTED
VINYL BENZENES. LOCALIZATION OF ELECTRONS IN AROMATIC SUBSTRATES VIA PI-COORDINATION TO METAL
J. ORG. CHEM., 37, 1930, 1972
- 180 72 197 VON GUSTO EK JAENICKE O POLANSKY OE
TRI AND TETRACARBONYL IRON COMPLEXES OF ISOBUTYLIDENE MELDRUM'S ACID
DOKL. AKADE. NAUK SSSR, 204, 575, 1972 IN GERMAN
- 180 72 198 VON GUSTO EK JAENICKE O
CHEMISCHE SYNTHESEN MIT METALLATOMEN. DARSTELLUNG VON BIS(BUTADIEN) EISEN KOMPLEXEN UND
BUTADIEN TETRACARBONYL CHROM
ANGEW. CHEM., 84, 547, 1972

- 180 72 199 WHITESIDES TH ARHART RW
STERESELECTIVE LOSS OF HYDROGEN DURING FRAGMENTATION OF CYCLOHEXADIENE IRON TRICARBONYL IN THE MASS
SPECTROMETER
TETRAHEDRON LETS. P297. 1972
- 180 72 200 WHITLOCK HW
SYNTHESIS AND INTERCONVERSION OF SOME SHIFT ISOMERIC POLYENE-TETRAHAPTO IRON TRICARBONYL COMPLEXES
JACS. 93. 2483. 1971
- 180 72 201 WRIGHTON M HAMMOND GS GRAY H
EMISSION FROM TUNGSTEN CARBONYL COMPLEXES
AD-735 221. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 180 72 202 YAKUSHIN FS SETKINA VN KISLYAKO NV
KINETIC ISOTOPE EFFECTS OF HYDROGEN EXCHANGE IN CYCLOPENTADIENYL MANGANESE TRICARBONYL AND
CYCLOPENTADIENYL MANGANESE DICARBONYLTRIPHENYLPHOSPHINE
IZV. AKA. NAUK SSSR, SER. KHIM., P316. 1972
- 180 72 203 YAWNEY OB DOEDENS RJ
CRYSTAL AND MOLECULAR STRUCTURE OF TETRANUCLEAR RUTHENIUM CARBONYL HYDRIDE ALPHA-H₂RU₄(CO)₁₃
INORG. CHEM., 11. 838. 1972
- 185 72 001 AFROSIMOV VV
INVESTIGATION OF ELEMENTARY ATOMIC COLLISION PROCESSES WITH CHANGE IN CHARGE STATES BY MEANS OF
COINCIDENCE METHOD
PP 79-112 OF PHYSICS OF IONIZED GASES. NAVINSEK, B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA,
YUGOSLAVIA. 1970. CONF-700706. FROM 5TH PLASMA PHYSICS SYMPOSIUM, MERCEGNIVI, YUGOSLAVIA
- 185 72 002 BETZ HD
CHARGE STATES AND CHARGE CHANGING CROSS SECTIONS OF FAST HEAVY IONS PENETRATING THROUGH GASEOUS AND
SOLID MEDIA
COD-3069-1. MASSACHUSETTS INST. OF TECH., CAMBRIDGE, LAB. FOR NUCLEAR SCIENCE. 1970. 283P.
DSR-77903. 154 REFERENCES
- 185 72 003 BORKENT JH VERHOEVE JW DE BOER TJ
FLUORESCENCE FROM INTER AND INTRAMOLECULAR CHARGE TRANSFER COMPLEXES
TETRAHEDRON LETS. P3363. 1972
- 185 72 004 BOTTCHER C ALLISON AC DALGARND A
POTENTIAL CURVES FOR NA²(+) AND RESONANCE CHARGE TRANSFER CROSS SECTIONS
CHEM. PHYS. LETS. 11. 307. 1971
- 185 72 005 BOWERS MT LAUDENSL JB
MECHANISM OF CHARGE TRANSFER REACTIONS: REACTIONS OF RARE GAS IONS WITH TRANS, CIS, AND 1,1-
DIFLUOROETHYLENE GEOMETRIC ISOMERS
J. CHEM. PHYS., 56. 4711. 1972
- 185 72 006 BYLKIN VI
CHARGE TRANSFER TO AN EXCITED STATE
OPT. SPECTROSC. USSR (ENGL. TRANS.), 29. 552. 1970. TRANSLATED FROM OPT. SPEKTROSK., 29. 1036. 1970
- 185 72 007 COPLAN MA OGILVIE KW MCMILLAN M
DIFFERENTIAL MEASUREMENTS OF DISSOCIATIVE CHARGE EXCHANGE, HE(+) + CO₂
J. CHEM. PHYS., 56. 4223. 1972
- 185 72 008 CRANDALL DH JAECKS DH
CHARGE TRANSFER TO THE 2S STATE OF HYDROGEN FROM CLOSE COLLISIONS OF H(+) WITH HE AND AR
PHYS. REV., 4A. 2271. 1971
- 185 72 009 DEWANGAN DP MUKHERJEE DK KARMOHAPATRO SB
1. OSCILLATIONS IN NA(+)-NA CHARGE TRANSFER CROSS SECTIONS, 2. OSCILLATORY STRUCTURE IN LI(+)-LI
CHARGE TRANSFER CROSS SECTIONS
PHYS. REV. LETS. 28. 583. 1972 AND PHYS. REV., 5A. 1755. 1972
- 185 72 010 EINDOLF N MUNSON B
HIGH PRESSURE CHARGE EXCHANGE MASS SPECTROMETRY
J. MASS SPECTRY. ION PHYS., 9. 141. 1972
- 185 72 011 ERIKSEN FJ FERNANDEZ SM POLLACK E
VERY SMALL ANGLE CHARGE EXCHANGE IN HE(+) + HE COLLISIONS
PHYS. REV., 5A. 2443. 1972
- 185 72 012 FERNANDEZ SM ERIKSEN FJ POLLACK E
SMALL ANGLE CHARGE EXCHANGE IN HE(+) + N₂ COLLISIONS
PHYS. REV. LETS. 27. 230. 1971
- 185 72 013 FORD JC THOMAS EW
FORMATION OF FAST EXCITED H ATOMS. 1. CHARGE TRANSFER NEUTRALIZATION OF H(+) IN HE AND AR. 2. CHARGE
TRANSFER NEUTRALIZATION OF H(+) ON MOLECULAR GASES
PHYS. REV., 5A. 1694 AND 1701. 1972
- 185 72 014 FOURKIER P3 APPELL J FEIGENFELD FC DUMON J
VALIDITY OF FRANK-CONDON PRINCIPLE FOR H(+)-H(-) DOUBLE CHARGE TRANSFER OF FAST PROTONS ON H₂ AT
LOW SCATTERING ANGLE
J. PHYS. B. 5. NO. 3. L58. 1972
- 185 72 015 FULLERTON DC MORAN TF
APPLICATION OF THE STATISTICAL PHASE-SPACE THEORY TO REACTIONS OF RARE GAS IONS WITH NITROGEN
MOLECULES
J. CHEM. PHYS., 54. 5221. 1971
- 185 72 016 GAYET R
CHARGE EXCHANGE SCATTERING AMPLITUDE TO FIRST ORDER OF A THREE BODY EXPANSION
J. PHYS. B. 5. 483. 1972
- 185 72 017 GELTMAN S
HIGH ENERGY APPROXIMATION. 1. PHUUN-HYDROGEN CHARGE TRANSFER
J. PHYS. B. 4. 1288. 1971

- 185 72 018 HAEBERLI W
METHOD FOR PRODUCING IONS UTILIZING A CHARGE TRANSFER COLLISION
UNITED STATES PATENT 3,577,026, MAY 4, 1971. TO UNITED STATES ATOMIC ENERGY COMMISSION, FILED JUNE 24, 1969
- 185 72 019 HAMMOND PR
ELECTRON ACCEPTOR-ELECTRON DONOR INTERACTIONS. 23. CHARGE TRANSFER INTERACTION OF THE HIGHEST VALENCY HALIDES, OXYHALIDES, AND OXIDES WITH AROMATIC HYDROCARBONS AND FLUOROCARBONS. BALL-PLANE INTERACTIONS
J. CHEM. SOC. A, P3826, 1971
- 185 72 020 HEICHE G MASON EA
ION MOBILITIES WITH CHARGE EXCHANGE
J. CHEM. PHYS., 53, 4687, 1970
- 185 72 021 HISHINUM N
RELATIVE CHARGE TRANSFER EFFICIENCIES OF (2)P(3/2) AND (2)P(1/2) RARE GAS IONS IN THEIR OWN GASES
J. PHYS. SOC. JAPAN, 32, 227, 1972
- 185 72 022 IKUTA S YOSHIHARA K SHIOKAWA T
APPLICABILITY OF MO THEORY TO FRAGMENT ION DISTRIBUTION AFTER CHARGE EXCHANGE REACTIONS ON CYCLOALKANES
MASS SPECTRY, JAPAN, 20, 223, 1972 IN JAPANESE
- 185 72 023 JANEV RK SALIN A
CHARGE EXCHANGE IN HYDROGEN ATOM COLLISIONS
J. PHYS. B, 4, NO. 12, L127, 1971
- 185 72 024 LATYPOV ZZ SHAPORENKO AA
INTERFERENCE EFFECT IN CROSS SECTION FOR CHARGE EXCHANGE OF LI(+) IONS WITH HE ATOMS
JETP LTRS. USSR (ENGL. TRANS.), 13, 375, 1971, TRANSLATED FROM Zh. EKSP. TEOR. FIZ., PIS'MA RED., 13, 525, 1971
- 185 72 025 LEVENTHAL L ROTENBERG M
DIRECT NUMERICAL SOLUTION TO THE CHARGE EXCHANGE PROBLEM. 1.
J. CHEM. PHYS., 55, 1272, 1971
- 185 72 026 LIFSHTIZ C TIERNAN TO
DISSOCIATION OF CYCLOBUTANE MOLECULE IONS FORMED IN CHARGE EXCHANGE COLLISIONS
AD-738 373, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 185 72 027 LIFSHTIZ C TIERNAN TO
DISSOCIATION OF MOLECULAR IONS FORMED BY CHARGE EXCHANGE IN AN IN-LINE TANDEM MASS SPECTROMETER
J. CHEM. PHYS., 57, 1515, 1972
- 185 72 028 LIPELES M
CHARGE TRANSFER EXCITATION OF AR(+) IN LOW ENERGY HE(+) + AR COLLISIONS
PHYS. REV., 4A, 140, 1971
- 185 72 029 LOCKWOOD GJ
TOTAL CROSS SECTIONS FOR CHARGE TRANSFER AND STRIPPING OF AL, CR, AND ER IONS IN HE AND N2
SC-RR-710784, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, JAN. 1972, 22P
- 185 72 030 MAPLETON RA
THEORY OF CHARGE EXCHANGE

BOOK, WILEY-INTERSCIENCE SERIES IN ATOMIC AND MOLECULAR COLLISIONAL PROCESSES, JOHN WILEY AND SONS, INC., NEW YORK, 1972, 203P
- 185 72 031 MASSEY H
ATOM-ATOM AND ATOM-ION COLLISIONS. 2. COLLISIONS BETWEEN ATOMS AND IONS IN WHICH NO EXCITATION OCCURS: SYMMETRICAL CHARGE TRANSFER
CONTEMP. PHYS., 13, NO. 2, 135-58, 1972
- 185 72 032 MASSON AJ
COLLISION MECHANISM OF DISSOCIATIVE CHARGE TRANSFER REACTIONS AT LOW ENERGY
THESIS, BRANDEIS UNIV., WALTHAM, MASS., 1971, 498P, UNIV. MICROFILMS ORDER NO. 71-29,418
- 185 72 033 MCCREA JM
INTENSITY DISTRIBUTION IN CHARGE EXCHANGE CONTINUA FORMED IN A 180 DEGREE, MAGNETIC DEFLECTION MASS SPECTROMETER
J. MASS SPECTRY, ION PHYS., 9, 167, 1972
- 185 72 034 MCKNIGHT RM
STUDY OF ELECTRON CHARGE TRANSFER PROCESSES BY PHOTON-NEUTRAL PARTICLE COINCIDENCE TECHNIQUES
THESIS, UNIV. OF NEBRASKA, LINCOLN, 1970, 170P, UNIV. MICROFILMS ORDER NO. 71-9576
- 185 72 035 MCKNIGHT RM JAECKS DH
SCATTERING WITH CHARGE EXCHANGE TO THE STATE H(2P) FOR THE SYSTEMS H(+) + HE AND H(+) + AR
PHYS. REV., 4A, 2281, 1971
- 185 72 036 NAGY B
COMPLEXES PAR TRANSFERT DE CHARGE ET REACTIVITE CHIMIQUE
IND. CHIM. BELGE, 36, NO. 11, XXX, 1971
- 185 72 037 NEBENZAHL I
CHARGE EXCHANGE CALCULATIONS WITH HARTREE WAVE FUNCTIONS
J. CHEM. PHYS., 54, 5254, 1971
- 185 72 038 NNADI JC
C(PI) TO PI(STAR) TRANSITION. 2. INTRAMOLECULAR CHARGE TRANSFER INTERACTIONS ACROSS SPACE
JACS, 94, 712, 1972
- 185 72 039 ORMROD JM MICHEL WL
CHARGE EQUILIBRIUM FRACTIONS AND CHARGE EXCHANGE CROSS SECTIONS FOR FAST IONS IN NITROGEN AND ARGON
CAN. J. PHYS., 49, 606, 1971, AECL-3772, ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONT.
- 185 72 040 PAMULA A CONSTANTIN E
CHARGE TRANSFER IN MASS SPECTROMETRY
STUD. CERCET. FIZ., 24, NO. 2, 199, 1972 IN ROUMANIAN

- 185 72 041 PENNER A WALLACE R
CHARGE EXCHANGE COLLISIONS INVOLVING PSEUDOCROSSING OF POTENTIAL ENERGY SURFACES
PHYS. REV., 5A, 639, 1972
- 185 72 042 PEREL J DALEY M
CHARGE TRANSFER COLLISIONS INVOLVING ELECTRON TRANSFER TO EXCITED STATES
PHYS. REV., 4A, 162, 1971
- 185 72 043 RUTHERFORD JA MATHIS RF TURNER BR VROOM DA
FORMATION OF MAGNESIUM IONS BY CHARGE TRANSFER
J. CHEM. PHYS., 55, 3785, 1971
- 185 72 044 SALIN A
CHARGE EXCHANGE BETWEEN PROTONS AND ATOMIC HYDROGEN: COMPARISON BETWEEN THEORY AND EXPERIMENT
J. PHYS. B, 4, NO. 12, L125, 1971
- 185 72 045 SEN SHARMA DK HIERL PM FRANKLIN JL
STUDIES OF CHARGE EXCHANGE IN A HIGH PRESSURE PULSED ELECTRON IMPACT SOURCE
J. CHEM. PHYS., 56, 1095, 1972
- 185 72 046 SIEGEL MW CHEN YH BORING JW
SINGLE CHARGE TRANSFER BETWEEN $He(+2)$ AND He , Ne , AND Ar : OBSERVED SELECTION RULE FOR EXIT CHANNELS
PHYS. REV. LETT., 28, 465, 1972
- 185 72 047 SMITH DL KEVAN L
1. TOTAL AND DISSOCIATIVE CHARGE TRANSFER OF POSITIVE IONS WITH PERFLUOROALKANES STUDIED BY MASS SPECTROMETRY. 2. TOTAL CHARGE TRANSFER CROSS SECTIONS IN MOLECULAR SYSTEMS
J. CHEM. PHYS., 55, 2290, 1971 AND JACS, 93, 2113, 1971
- 185 72 048 SOLOV'EV ES IL'IN RN OPARIN VA SERENKOV IT FEDORENKO NV
CAPTURE AND LOSS OF ELECTRONS BY FAST NITROGEN AND OXYGEN ATOMS AND IONS IN AIR, NITROGEN, AND OXYGEN
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 17, NO. 2, 267, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 42, NO. 2, 336, 1972
- 185 72 049 SPEARS KG FEMSENFELD GC MCFARLAND M FERGUSON EE
PARTIAL CHARGE TRANSFER REACTIONS AT THERMAL ENERGIES
J. CHEM. PHYS., 56, 2562, 1972
- 185 72 050 YAWARA H
CHARGE CHANGING PROCESSES FOR HELIUM BEAM INVOLVING METASTABLE ATOMS IN MOLECULAR HYDROGEN
J. PHYS. SOC. JAPAN, 31, 871, 1971
- 185 72 051 THOMAS EW FORD JC FITZWILSON RL SAUERS I CONRAD S R
FORMATION OF EXCITED HYDROGEN ATOMS BY CHARGE TRANSFER AND DISSOCIATION
ORD-2591-61, PROGRESS REPORT NO. 7, DEC. 1970 - DEC. 1971. GEORGIA INST. OF TECH., ATLANTA, 25P
- 185 72 052 TIERNAN TO HILLS LP
CHARGE TRANSFER SPECTRA OF C4H8 ISOMERS
AD-730 850. AEROSPACE RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO, 7P
- 185 72 053 TIERNAN TO LIFSCHITZ C
DISSOCIATION OF MOLECULE-IONS FORMED BY CHARGE EXCHANGE COLLISIONS IN AN IN-LINE TANDEM MASS SPECTROMETER
AD-746 745. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 185 72 054 TURK J SHAPIRO RH
CHARGE EXCHANGE SPECTRA OF SIMPLE KETONES
ORG. MASS SPECTRY, 5, 1375, 1971
- 185 72 055 URATA N WATANABE T
VALIDITY OF PRADHAN'S IMPULSE APPROXIMATION FOR HIGH ENERGY CHARGE TRANSFER PROCESSES
J. PHYS. B, 4, NO. 12, L121, 1971
- 185 72 056 VERHOEVE JW DIRKX IP DE BOER TJ
STUDIES OF INTER AND INTRAMOLECULAR DONOR-ACCEPTOR INTERACTIONS. CONFORMATIONAL INFLUENCES ON INTRAMOLECULAR CHARGE TRANSFER TRANSITION IN N-ARALKYLPYRIDINIUM IONS
J. MOL. SPECTROSC., 42, 149, 1972
- 185 72 057 VITOLS AP OSKAM HJ
REACTION RATE CONSTANT FOR $Ne(+) + 2Ne$ GOES TO $Ne2(+) + Ne$
PHYS. REV., 5A, 2618, 1972
- 185 72 058 WEINER J PEATMAN WB BERRY RS
CHARGE TRANSFER IN $Na(+)-O(-)$ COLLISIONS AT LOW RELATIVE ENERGY
PHYS. REV., 4A, 1824, 1971
- 185 72 059 WITTKOWER AB BETZ HD
CHARGE CHANGING CROSS SECTIONS FOR HEAVY IONS IN COMPLEX MOLECULES: FAILURE OF AN ADDITIVE RULE
J. PHYS. B, 4, 1173, 1971
- 187 72 001 ABE T OKAWARA R
PREPARATION AND PROPERTIES OF METHYL(CYCLOPENTADIENYL) THALLIUM DERIVATIVES
J. ORGANOMET. CHEM., 35, 27, 1972
- 187 72 002 ABLEY P DOCKAL ER HALPERN J
OXIDATIVE CLEAVAGE OF COBALT-CARBON BONDS IN ORGANOBIS(DIMETHYLGLYOXIMATE) COBALT COMPOUNDS
JACS, 94, 659, 1972
- 187 72 003 ABLOV AV
MASS SPECTRA OF NICKEL(II) AND PALLADIUM(II) DIOXIMINES
DOKL. AKADE. NAUK SSSR, 201, 345, 1971 IN RUSSIAN
- 187 72 004 ADDERLEY CJR
ON THE QUESTION OF CARBONIUM ION INTERMEDIATES IN PALLADIUM(II) CHLORIDE-COPPER(II) CHLORIDE CATALYZED ADDITION REACTIONS OF CYCLIC ALKYLENES
TETRAHEDRON LETT., P3545, 1971

- 187 72 005 AGAFONOV IL FAERMAN VI
MASS SPECTROMETRIC ANALYSIS OF CHROMIUM ARENE π -COMPLEXES WITH IONIZATION BY AN ELECTRIC FIELD WITH
A HIGH POTENTIAL GRADIENT
ZH. ANAL. KHIM., 27, 196, 1972 IN RUSSIAN
- 187 72 006 ALISON JMC
METAL COMPLEXES OF SULPHUR LIGANDS. 2. REACTION OF BIS(DIPHENYLPHOSPHINODITHIOATO) PLATINUM(II) AND
PALLADIUM(II) WITH LIGANDS CONTAINING GROUP-VB ATOMS
J. CHEM. SOC. A, P3690, 1971
- 187 72 007 APPLETON TG CLARK HC POLLER RC
INSERTION OF HEXAFLUORO-2-BUTYNE INTO A PALLADIUM-ALLYL BOND
J. ORGANOMET. CHEM., 39, NO. 1, C13, 1972
- 187 72 008 ASHLEY-SMITH J
REACTIONS OF LOW VALENT TRANSITION METAL COMPLEXES WITH FLUOROCARBONS. 23. PENTAFLUOROPHENYL AZIDE
AND HEXAFLUOROAZOMETHANE
J. CHEM. SOC., DALTON TRANS., P1805, 1972
- 187 72 009 BAKKE AM
MOLECULAR STRUCTURE STUDY OF DIMETHYLMERCURY, DIMETHYLCADMIUM, DIMETHYLZINC, AND DEUTERATED
COMPOUNDS
J. MOL. SPECTROSC., 41, 1, 1972
- 187 72 010 BALDWIN JE HOLM RH HARPER RW
STRUCTURE OF DIHYDROOCTAIZA-(14)-ANNULENES AND THEIR NICKEL(II) COMPLEXES
INORG. NUCL. CHEM. LTRS, 8, 393, 1972
- 187 72 011 BARNETT KW SLOCUM DM
CYCLOPENTADIENYL COMPLEXES OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN
J. ORGANOMET. CHEM., 44, 1, 1972
- 187 72 012 BASOLO F PEARSON RG
MECHANISMS OF SUBSTITUTION REACTIONS OF METAL COMPLEXES
COD-1087-137. FINAL REPORT, NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF CHEMISTRY, AUG. 1971, 2P
- 187 72 013 BELCHER R STEPHEN WI THOMSON IJ
VOLATILE METAL CHELATES OF MONOTHIOACETYLACETONE
J. INORG. NUCL. CHEM., 33, 1851, 1971
- 187 72 014 BELCHER R CRANLEY CR MAJER JR
VOLATILE ALKALINE EARTH CHELATES OF FLUORINATED ALKANDIPLYALYLMETHANES. A THERMOGRAVIMETRIC, GAS
CHROMATOGRAPHIC, AND MASS SPECTRAL STUDY
ANAL. CHIM. ACTA, 60, 109, 1972
- 187 72 015 BELCHER R STEPHEN WI THOMSON IJ
GAS CHROMATOGRAPHY AND THERMAL ANALYSIS OF FLUORINATED BISMONOTHIO-BETA-DIKETONATES
J. INORG. NUCL. CHEM., 34, 1017, 1972
- 187 72 016 BENDER CD
FORMATION OF METAL OCTAMETHYLTETRA BENZOPORPHYRINS FROM ISOINDOLE PRECURSORS
J. CHEM. SOC., PERKIN TRANS. I, P771, 1972
- 187 72 017 BERCAW JE BRINTZINGER HH
1. BIS(PENTAMETHYLCYCLOPENTADIENYL) TITANIUM(III). ISOLATION AND REACTIONS WITH HYDROGEN, NITROGEN,
AND CARBON MONOXIDE. 2. TITANOCENE AS AN INTERMEDIATE IN REACTIONS INVOLVING MOLECULAR HYDROGEN
AND NITROGEN
JACS, 93, 2045, 1971 AND JACS, 94, 1219, 1972
- 187 72 018 BEVERWIJ CD VAN DER KE GJ
SYNTHESIS AND PROPERTIES OF PHENYL SILVER
J. ORGANOMET. CHEM., 43, NO. 1, C11, 1972
- 187 72 019 BLACKMORE T
METAL DERIVATIVES OF HEXAFLUOROISOPROPYL ALCOHOL AND RELATED COMPOUNDS
J. CHEM. SOC. A, P3153, 1970
- 187 72 020 BOOKER JL
INVESTIGATION OF THE MASS SPECTROMETRIC TRACE ANALYSES OF SOME FIRST-ROW TRANSITION METALS USING
VOLATILE BETA-DIKETONATE COMPLEXES
THESIS, UNIV. OF WASHINGTON, SEATTLE, 1970. UNIV. MICROFILMS ORDER NO. 70-19615. DISS. ABS., 318, 4,
1772, 1970
- 187 72 021 BOOTH DJ ROCKETT BW
UNSYMMETRICALLY DISUBSTITUTED FERROCENES. 11. THE EFFECT OF SOLVENT AND METALLATING AGENT ON THE
LITHIATION OF 2-FERROCENYLPIRIDINE
J. CHEM. SOC. C, P3341, 1971
- 187 72 022 BRADLEY DC CHISHOLM MH
COVALENT COMPOUNDS OF QUADRIVALENT TRANSITION METALS. 4. NIOBIUM(IV) DIALKYLAMIDES. 5.
MOLYBDENUM(IV) DIALKYLAMIDES
J. CHEM. SOC. A, P1511 AND P2741, 1971
- 187 72 023 BRADLEY DC FISHER KJ
BIS(HEXAMETHYLDISILYLAMINO) COBALT(II). A TWO COORDINATED COBALT COMPOUND
JACS, 93, 2058, 1971
- 187 72 024 BREUER SW
MASS SPECTRA OF ORGANOMERCURY COMPOUNDS
J. CHEM. SOC. C, P3519, 1971
- 187 72 025 BRINTZINGER HH BERCAW JE
THE NATURE OF SO-CALLED TITANOCENE, (C₁₀H₁₀Ti)₂
JACS, 92, 6182, 1970
- 187 72 026 BRUCE MI
1. ORGANOMETALLIC STRUCTURES: TRANSITION METALS. 2. ORGANIC REACTIONS OF SELECTED π -COMPLEXES
ORGANOMET. CHEM. REV., 9, 53 AND 99, 1972

- 187 72 027 BRUCE MI GARDNER RC STONE FG ICBAL MZ
1. METALLATION AND RELATED REACTIONS WITH PI-CYCLOPENTADIENYL RUTHENIUM COMPLEXES. 2. ORTHO-METALLATION REACTIONS. V. REACTIONS OF RHODIUM COMPLEXES WITH AZOBENZENE J. ORGANOMET. CHEM., 40. NO. 1. C39. AND NO. 2. 393. 1972
- 187 72 028 BRUNNER H FISCHER ED LAPPUS M
ATROPISOMERIE AN UBERGANGSMETALL-CARBEN KOMPLEXEN
ANGEW. CHEM., 83. 1022. 1971
- 187 72 029 DUCILIER JW PUPPE L
METAL COMPLEXES WITH TETRAPHYRROLE LIGANDS. 2. METAL CHELATES OF ALPHA,GAMMA-DIMETHYL-ALPHA, GAMMA-DIHYDROOCTAETHYLPORPHIN VIA REDUCTIVE METHYLATION OF OCTAETHYLPORPHINATE ZINC
ANN. CHEM., 740. 142. 1970 IN GERMAN
- 187 72 030 BUDESINS BW SVEC J
STABILITIES OF SOME CYCLOPENTADIENIDE METAL COMPLEXES
TALANTA, 19. 87. 1972
- 187 72 031 CAINELLI G
CHEMISTRY OF ALPHA-HALOMETAL COMPOUNDS. A GENERAL METHOD FOR OBTAINING EPOXIDES FROM ALDEHYDES AND KETONES
TETRAHEDRON, 28. 3009. 1972
- 187 72 032 CAIRNCROSS A
ORGANOCOPPER CLUSTER COMPOUNDS. 2. PENTAFLUOROPHENYL COPPER AND SIGMA(TRIFLUOROMETHYL)PHENYL COPPER TETRAMERS
JACS, 93. 248. 1971
- 187 72 033 CALVO MM
CONSIDERATIONS ON THE METALLOGENESIS OF THE NATURAL URANIUM: ORGANIC ASSOCIATION
ENERG. NUCL. (MADRID), 15. NO. 73. 381. 1971 IN SPANISH
- 187 72 034 CHAMBERS RD SPRING DJ
POLYFLUOROARYL ORGANOMETALLIC COMPOUNDS. 12. NUCLEOPHILIC SUBSTITUTION IN OCTAFLUORODIBENZOTHIOPHEN, AND RELATED COMPOUNDS
TETRAHEDRON, 27. 669. 1971
- 187 72 035 CHAN SC CHAN SF
DEUTERIUM ISOTOPE EFFECT IN OCTAHEDRAL SUBSTITUTIONS. 6. BASE HYDROLYSIS OF HALOGENOPENTAMINE RHODIUM(III) PERCHLORATES
J. INORG. NUCL. CHEM., 34. 793. 1972
- 187 72 036 CHAN TH WONG E
MASS SPECTROMETRIC STUDIES ON PLATINUM(II) COMPLEXES
ORG. MASS SPECTRY, 5. 1307. 1971
- 187 72 037 CHARALAMBOUS J FRAZER MJ LEE RK
MASS SPECTRA OF COMPLEXES OF 8-QUINOLINOL WITH TRIVALENT METALS (AL, GA, IN, SC, CR, AND FE)
ORG. MASS SPECTRY, 5. 1169. 1971
- 187 72 038 CHARALAMBOUS J
REACTIONS OF QUINOLIN-8-OL WITH COVALENT HALIDES. 6. BIS-PI-CYCLOPENTADIENYLDIHALIDES OF TITANIUM, ZIRCONIUM AND HAFNIUM
J. CHEM. SOC. A, P2187. 1971
- 187 72 039 CHERWINS WJ CLARK HC MANZER LE

CATIONIC ORGANOMETALLIC COMPLEXES WITH UNSATURATED SYSTEMS. 3. NICKEL(II) AND PALLADIUM(II) ISOCYANIDE AND RELATED COMPLEXES
INORG. CHEM., 11. 1511. 1972
- 187 72 040 CHISHOLM MH CLARK HC
NOVEL CYCLOBUTADIENE-PLATINUM(II) AND ALKOXY-CARBENE PLATINUM(IV) CATIONS
J. CHEM. SOC. D, CHEM. COMMUN., NO. 22. XXX. 1971
- 187 72 041 CHISHOLM MH CLARK HC MANZER LE
CATIONIC ACETYLENIC PLATINUM(II) COMPOUNDS AND THEIR DERIVATIVES. 1. ALKOXYCARBENE COMPLEXES. 2. ACETYLENE AND VINYL ETHER COMPLEXES. 4. DISPLACEMENT REACTIONS
INORG. CHEM., 10. 1711 AND 2557. 1971 AND 11. 1269. 1972
- 187 72 042 CHISHOLM MH CLARK HC MANZER LE
COMPARISON OF BONDING IN ZERO AND DIVALENT PLATINUM-OLEFIN AND ACETYLENE COMPLEXES FROM CARBON-13 NUCLEAR MAGNETIC RESONANCE PARAMETERS
JACS, 94. 5087. 1972
- 187 72 043 CLARK HC ITOH K MANZER LE
1. PREPARATION AND PROTON MAGNETIC RESONANCE SPECTRA OF SOME TETRAKIS(ARYLMETHYLPHOSPHINE) PLATINUM(0) AND PALLADIUM(0) COMPOUNDS. 2. H(1) NUCLEAR MAGNETIC RESONANCE SPECTRA OF SOME CATIONIC PLATINUM(II) CARBENE COMPLEXES
INORG. CHEM., 10. 1707. 1971 AND J. ORGANOMET. CHEM., 30. NO. 2. C89. 1971
- 187 72 044 CLARK HC CHERWINS WJ KUROSAWA H
CHEMISTRY OF METAL HYDRIDES. 9. REACTIONS OF TRANS-PTHCL(ET3P)2 WITH PERFLUOROCYCLOBUTENE AND PERFLUOROPROPENE AND CONVERSION OF A CYCLOBUTENYL TO A FURYL GROUP. 11. PREPARATION AND SPECTROSCOPIC ASPECTS OF SOME HYDRIDODIPHENYLMETHYL AND DIMETHYLPHENYL-PHOSPHINE COMPLEXES OF PLATINUM(III). 12. ROLE OF CATIONIC INTERMEDIATES IN OLEFIN INSERTIONS INTO PLATINUM-HYDROGEN BOND
J. ORGANOMET. CHEM., 29. 451. 1971. AND 36. 399. 1972. AND INORG. CHEM., 11. 1275. 1972
- 187 72 045 CLARK HC MANZER LE
CONVENIENT SYNTHESIS FOR A VARIETY OF METHYL AND TRIFLUOROMETHYL PLATINUM COMPLEXES
J. ORGANOMET. CHEM., 38. NO. 2. C41. 1972
- 187 72 046 CLARK HC HAUW TL
REACTIVITY OF METAL-METAL BONDS. 10. FURTHER REACTIONS OF SI-MN, GE-MN, AND SN-MN BONDS WITH UNSATURATED FLUOROCARBONS
J. ORGANOMET. CHEM., 42. 429. 1972
- 187 72 047 CLOBES AL
MASS SPECTROMETRIC STUDY OF BETA-DIKETONATO METAL COMPLEXES
THESIS. NORTH DAKOTA STATE UNIV., FARGO, UNIV. MICROFILMS ORDER NO. 71-17.148. DISS. ABS., 328. 1. 199. 1971

- 187 72 048 COHEN SC
MASS SPECTROMETRY OF ORGANOMERCURIALS. 2. FRAGMENTATION OF GEMINAL BIS(CHLOROMERCURIO) DERIVATIVES
J. CHEM. SOC. A, P1571, 1971
- 187 72 049 COLEMAN WM TAYLOR LT
COBALT-CARBON SIGMA BOND FORMATION EMPLOYING A HIGH-SPIN COBALT(II) COMPLEX AS A PRECURSOR
JACS. 93, 5446, 1971
- 187 72 050 COLLIER MR LAPPERT MF MCNEEKIN J
AZOMETHINE DERIVATIVES OF EARLY TRANSITION METALS
INORG. NUCL. CHEM. LTRS. 7, 689, 1971
- 187 72 051 CONNOR JA
ISONITRILE COMPLEXES OF CHROMIUM(0) AND MOLYBDENUM(0): CHARACTERISATION AND REACTIVITY
J. CHEM. SOC. D, P1246, 1972
- 187 72 052 COTINKAY B COLLIER MR JENKINS AD KEPPIE SA LAPPERT MF
ORGANOMETALLIC AMIDES AND IMIDES
AD-736 527. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 187 72 053 CULLEN MR HOU FL
REACTIONS OF SOME FLUORINATED ACETYLENES WITH TETRAKIS(TRIPHENYLPHOSPHINE) PLATINUM(0)
CAN. J. CHEM., 49, 3404, 1971
- 187 72 054 CUMMINGS SC SIEVERS RE
PSEUDOOCTAHEDRAL COBALT(III), NICKEL(II), AND CADMIUM(II) COMPLEXES OF LINEAR, SEXADENTATE,
FLUORINATED SCHIFF BASE LIGANDS
INORG. CHEM., 11, 1483, 1972
- 187 72 055 DAUBEN WG KIELBANI AJ
1. TRANSITION METAL CATALYZED VALENCE ISOMERIZATIONS. ROLE OF LIGAND. 2. TRANSITION METAL CATALYZED
VALENCE ISOMERIZATIONS OF TRICYCLO(4.1.0.0(2,7))HEPTANE. EVIDENCE FOR AN ORGANOMETALLIC
INTERMEDIATE
JACS. 93, 7345, 1971 AND 94, 3669, 1972
- 187 72 056 DE VRIES JLKF HERBER RH
MOESSBAUER SPECTROSCOPY OF ORGANOMETALLICS: STRUCTURE AND BONDING IN ORGANOTIN(IV) DITHIOCARBAMATES
COO-3513-82. RUTGERS-THE STATE UNIV., NEW BRUNSWICK, NEW JERSEY. SCHOOL OF CHEMISTRY, FEB. 1972. 35P
- 187 72 057 DICKSON RS FRASER PJ
TRANSITION METAL COMPLEXES OF SUBSTITUTED ALKYNES. 8. COMPLEXES OF COBALT DERIVED FROM 1,1,1-
TRIFLUOROBUT-2-YNE
AUSTRALIAN J. CHEM., 23, 2403, 1970
- 187 72 058 DOUGLAS PG FELTHAM RD
REACTIONS OF COORDINATED LIGANDS. 2. AZIDE AND DINITROGEN COMPLEXES OF RUTHENIUM
JACS. 94, 5254, 1972
- 187 72 059 EABORN C
ORGANOSILICON COMPOUNDS. 49. SOME REACTIONS OF BIS(TRIPHENYLSILYL) MERCURY
J. CHEM. SOC., PERKIN TRANS. 11, P55, 1972
- 187 72 060 EINSTEIN FWB
CRYSTAL STRUCTURE OF AN IRIIDIUM-TETRAZENE COMPLEX FORMED IN REACTION OF DIAZONIUM SALTS WITH
TRANS-CHLOROCARBONYLBIS(TRIPHENYLPHOSPHINE) IRIIDIUM(II)

JACS. 93, 1826, 1971
- 187 72 061 EINSTEIN FWB ENWALL E FLITCROF N
ADDITION REACTIONS OF CARBON DISULPHIDE WITH TERTIARY PHOSPHINE SUBSTITUTED CARBONYL HYDRIDES OF
MANGANESE AND RHENIUM
J. INORG. NUCL. CHEM., 34, 885, 1972
- 187 72 062 ELLGEN PC GREGORY CD
KINETICS AND MECHANISM OF THE REACTION OF NICKELCENE WITH MERCAPTANS
INORG. CHEM., 10, 980, 1971
- 187 72 063 FACHINET G FLORIANI C
THERMAL DECOMPOSITION AND CARBONYLATION OF BIS(CYCLOPENTADIENYL) TITANIUM(IV) AND ZIRCONIUM(IV)
J. CHEM. SOC., CHEM. COMMUN., P654, 1972
- 187 72 064 FALK H LEHNER H
STEREOCHEMIE VON METALLOCENEN. 35. UBER DIE CHIROPTISCHEN EIGENSCHAFTEN VON FERROCENDERIVATEN IM
BEREICH DER 'FERROCENBANDE'
TETRAHEDRON, 27, 2279, 1971
- 187 72 065 FIELDS R HASZELDINE RN HUBBARD AF
ORGANOSILICON CHEMISTRY. 7. REACTIONS OF BIS(TRIMETHYLSILYL) MERCURY WITH PERFLUOROLEFINS AND
ACETYLENES. 9. REACTION OF BIS(TRIMETHYLSILYL) MERCURY WITH SOME POLYFLUOROLEFINS
J. CHEM. SOC., CHEM. COMMUN., P3838, 1971 AND J. CHEM. SOC., DALTON TRANS. 1, P847, 1972
- 187 72 066 FISCHER EO FISCHER H WERNER H
NACHWEIS VON ISOMEREN UND INTRAMOLEKULARE ISOMERISIERUNG BEI CARBEN KOMPLEXEN DES CHROMS. I
DEMONSTRATION OF ISOMERS AND INTRAMOLECULAR ISOMERIZATION OF CARBENE COMPLEXES OF CHROMIUM
ANGEW. CHEM., 84, 682, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 644, 1972
- 187 72 067 FISCHER EO
UBER DI-PI-CYCLOPENTADIENYL-MU-PI-CYCLOPENTADIEN-DIMETALL KOMPLEXE DES PALLADIUMS, NICKELS, UND
PLATINS. 'TETRACYCLOPENTADIENYLOIPALLADIUM' UND
PI-CYCLOPENTADIENYL-PI-(2-METHYL-1-ACETYL-ALLYL)PALLADIUM
CHEM. BER., 105, 3014, 1972
- 187 72 068 FISCHER EO KREISSL FR WINKLER E OOTZ KH
UBERGANGSMETALL-CARBEN KOMPLEXE. 39. VIERFACH KOORDINIERT CARBEN KOMPLEXE VON NICKEL, KOBALT, UND
EISEN. 44. EINSCHIEBUNG DES METHOXYPHENYL-CARBEN LIGANDEN IN DIE SILICIUM-WASSERSTOFF BINDUNG
CHEM. BER., 105, 588, 1972 AND J. ORGANOMET. CHEM., 36, NO. 1, C4, 1972
- 187 72 069 FOREMAN MI
CYCLOHEPTATRIENE AND TROPYLIUM METAL COMPLEXES. 9. (1,5)HYDROGEN MIGRATIONS IN CYCLOHEPTATRIENES
COMPLEXED TO CHROMIUM
J. CHEM. SOC., PERKIN TRANS. 11, P1141, 1972

- 187 72 070 FRAENKEL G COOPER JW
STUDIES OF HOMOCONJUGATION IN PYRIDYLALKYL ORGANOMETALLIC COMPOUNDS
JACS, 93, 7228, 1971
- 187 72 071 GIELEN M
ORGANOMETALLIC COMPOUNDS. 27. NMR AND MASS SPECTRA OF HEXASUBSTITUTED DIMETALS OF GROUP-IVB. 28. NMR
AND MASS SPECTRA OF BENZYL TIN DERIVATIVES
BULL. SOC. CHIM. BELGES, 80, 175 AND 189, 1971
- 187 72 072 GINSBERG AP LINDSELL WE
RHODIUM COMPLEXES WITH THE MOLECULAR UNIT P4 AS A LIGAND
JACS, 93, 2082, 1971
- 187 72 073 GOLDBERG SI BRELAND JG
FERROCENE STUDIES. 18. IDENTIFICATION AND STEREOCHEMISTRY OF NINE BIMOLECULAR CLEMMESEN REDUCTION
PRODUCTS OF BENZYLFERROCENE. 19. SYNTHESIS OF 1,2-TERFERROCENE
J. ORG. CHEM., 36, 761 AND 1499, 1971
- 187 72 074 GRECO A GREEN M STONE FG
REACTIONS OF LOW VALENT METAL COMPLEXES WITH FLUOROCARBONS. 20. TRICARBONYL(PI-ALLYL AND
PI-2-METHYLLALLYL) COBALT
J. CHEM. SOC. A, NO. 22, XXX, 1971
- 187 72 075 GREEN MLH KNOWLES PJ
SOME HYDRIDO(ARYL) BIS(PI-CYCLOPENTADIENYL) TUNGSTEN AND RELATED COMPOUNDS
J. CHEM. SOC. A, P1508, 1971
- 187 72 076 GREEN MLH
ARENE MOLYBDENUM CHEMISTRY: TERTIARYPHOSPHINE AND PHOSPHITE DERIVATIVES AND RELATED PHOSPHINE
HYDRIDES
J. CHEM. SOC. A, P2929, 1971
- 187 72 077 GRIGG R JACKSON JL
RHODIUM COMPLEXES OF CYCLOOLEFINS
TETRAHEDRON LETRS, P3493, 1970
- 187 72 078 HAAKE P MASTIN SH
MASS SPECTROMETRY OF PLATINUM(II) COMPLEXES. COMPARISON OF CIS AND TRANS ISOMERS. FRAGMENTATION AND
REARRANGEMENT PATHWAYS
JACS, 93, 6823, 1971
- 187 72 079 HAIGH JM THORNTON DA
LIGAND SUBSTITUTION EFFECTS IN URANYL BETA-KETOENOLATES
J. MOL. STRUCT., 8, 351, 1971
- 187 72 080 HAMILTON A JOHNSON AW
REACTIONS OF NICKEL 1,19-DIMETHYLTETRADEHYDROCORRIN SALTS
J. CHEM. SOC. C, P3880, 1971
- 187 72 081 HERBERICH GE GREISS G
DERIVATE DES BORABENZOLS. 1. KOBALT KOMPLEXE DES 1-PHENYL UND 1-METHYLDORINAT IONS
CHEM. BER., 105, 3413, 1972
- 187 72 082 HIGSON BM MCKENZIE ED
STRUCTURE, REDOX PROPERTIES, AND REACTIONS OF SOME PLANAR M(II)N4 CHELATE COMPOUNDS OF COBALT,
NICKEL, AND COPPER, AND THEIR OXIDISED PRODUCTS, INCLUDING PARAMAGNETIC COBALT(III) SPECIES

J. CHEM. SOC., DALTON TRANS. TRANS., P269, 1972
- 187 72 083 HOFFMAN WA
RHODIUM SPECIES IN RADIOACTIVE WASTE SOLUTIONS. INFRARED AND MASS SPECTROSCOPY
ARH-732, ATLANTIC RICHFIELD HANFORD CO., RICHLAND, WASH. 42P
- 187 72 084 HOLLANDER FJ
CRYSTAL STRUCTURES OF DIKETONE COMPLEXES OF ALKALINE EARTH METALS AND OTHER COMPOUNDS
LBL-670, THESIS, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., MAY 1972, 166P
- 187 72 085 HORN RR EVERETT GW
PROTON AND DEUTERON NUCLEAR MAGNETIC RESONANCE ISOTOPE SHIFTS IN PARTIALLY DEUTERATED TRIS(2,4-
PENTANEDIONATO) VANADIUM(III)
JACS, 93, 7173, 1971
- 187 72 086 HOSOKAWA T MATLIS PM
MODEL SYSTEM FOR ACID AND BASE REACTIONS, CARBONYLATION, AND BETA-HYDRIDE ELIMINATION IN
ORGANOPALLADIUM CHEMISTRY
JACS, 94, 3238, 1972
- 187 72 087 HSIEH ATT LEE AG SEARS PL
DECARBOXYLATION OF SOME THALLIUM(III) CARBOXYLATES. MASS SPECTRAL STUDY
J. ORG. CHEM., 37, 2637, 1972
- 187 72 088 HUBBARD CR
CRYSTAL STRUCTURE DETERMINATIONS OF RUBIDIUM HEXABROMOANTIMONATE(III,V) AND TETRAMETHYLAMMONIUM
NONABROMOANTIMONATE(III) DIBROMIDE AND A HIGHLY EFFICIENT WHITE RADIATION NEUTRON DIFFRACTION
TECHNIQUE
IS-T-476, THESIS, IOWA STATE UNIV., AMES LAB. USAEC, AMES, SEPT. 1971, 110P
- 187 72 089 MUTTNER G LANGE S FISCHER ED
MOLECULAR STRUCTURE OF BIS(HEXAMETHYLBENZENE) RUTHENIUM(0)
ANGEW. CHEM. INT. ED. ENGL., 10, 556, 1971
- 187 72 090 HYDES P
OXIDATION OF COMPOUNDS CONTAINING THE PI-CYCLOPENTADIENYLNITROSYL MANGANESE GROUP
J. CHEM. SOC. A, P3660, 1971
- 187 72 091 IMAI H
MASS SPECTRA OF SEVERAL FERROCENYL COMPOUNDS
BULL. CHEM. SOC. JAPAN, 45, 1264, 1972
- 187 72 092 IWAMOTO H NINAGAWA A MATSUURA M
REACTION OF 1,2-EPOXYOCTANE WITH ORGANOTIN HALIDES
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., (KOGYO KAGAKU ZASSHI), 74, 1400, 1971

- 187 72 093 JAMES TA MCCLEVERTY JA
CHEMISTRY OF PI-CYCLOPENTADIENYL NITROSYL MOLYBDENUM COMPLEXES. COMPOUNDS CONTAINING BRIDGING IODINE
AND SULPHUR LIGANDS
J. CHEM. SOC. A, P1068, 1971
- 187 72 094 JETZ W ANGELICI RJ
1. ALKYLISOCYANATE INSERTION INTO AN IRON-HYDROGEN BOND. 2. CARBOXAMID COMPLEXES OF MOLYBDENUM AND
TUNGSTEN. ALKYLISOCYANATE INSERTION INTO A TUNGSTEN-HYDROGEN BOND
J. ORGANOMET. CHEM., 35, NO. 1, C37, 1972 AND JACS, 94, 3799, 1972
- 187 72 095 JOHNSON BFG BHADURI S CONNELLY NG
CATIONIC NITROSYLS OF NI, CO, AND GROUP-VI METALS
J. ORGANOMET. CHEM., 40, NO. 1, C36, 1972
- 187 72 096 JOHNSON BFG LEWIS J YARROW D
PROTONATION OF CYCLOHEXADIENE(CYCLOPENTADIENYL) RHODIUM(II). EVIDENCE FOR ENDO-PROTON ADDITION
J. CHEM. SOC., CHEM. COMMUN., P235, 1972
- 187 72 097 JOHNSON BFG
REACTIVITY OF COORDINATED LIGANDS. 7. ELECTROPHILIC SUBSTITUTION AND ADDITION REACTIONS OF
COORDINATED CYCLOHEPTATRIENE. 8. PREPARATION AND REACTIVITY OF SOME RHODIUM(II) DERIVATIVES OF
TRICYCLO(S₂1,0(2,6))DECA-4,8-DIEN-3-ONE AND TRICYCLO(6,2,1,0(2,7))UNDECA-4,9-DIENE 3,6-DIONE
J. CHEM. SOC., DALTON TRANS., P456 AND 463, 1972
- 187 72 098 KAESZ HD SAILLANT KR
HYDRIDE COMPLEXES OF TRANSITION METALS
CHEM. REV., 72, 231, 1972
- 187 72 099 KALOUSTIAN MK
NOVEL ISOMERS OF PI-CYCLOPENTADIENYL-PI-(3)-1,2-DICARBOLLYL COBALT(III)
JACS, 93, 4912, 1971
- 187 72 100 KANELAKOPOULOS B
CYCLOPENTADIENYL: COMPLEXES OF THE ACTINIDE ELEMENTS
CONF-690426-, PP 246-55. KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY. INSTITUT FUER HEISSE
CHEMIE, 1969. FROM SYMPOSIUM ON TRANSURANIUM ELEMENT CHEMISTRY, LIEGE, BELGIUM, APRIL 21, 1969
- 187 72 101 KATZ TJ ACTON N
1. BIS(PENTALENYL NICKEL). 2. SANDWICHES OF IRON AND COBALT WITH PENTALENE
JACS, 94, 3281 AND 6205, 1972
- 187 72 102 KATZENELLENBOGE JA COREY EJ
A NOVEL CYCLIZATION MEDIATED BY ORGANOCOPPER REAGENTS
J. ORG. CHEM., 37, 1441, 1972
- 187 72 103 KEMLO JA SHEPHERD TM
TWO UNUSUAL IONS. CU(C₇H₇)(+) AND CU(C₇H₇)(+), IN MASS SPECTRUM OF A COPPER(II) BETA-DIKETOENOLATE
INORG. NUCL. CHEM. LTRS, 8, 119, 1972
- 187 72 104 KEPPIE SA LAPPERT MF
BINUCLEAR ORGANOMETALLIC COMPOUNDS. 5. INSERTION INTO M-C AND H-C BONDS OF COORDINATIVELY
UNSATURATED TRANSITION METAL FRAGMENTS: SYNTHESIS OF GROUP-VIA METAL CYCLOPENTADIENYL
J. CHEM. SOC. A, P3216, 1971
- 187 72 105 KHOSROPO R HAMBRIGH P
GENERAL MECHANISM FOR METAL ION INCORPORATION INTO PROPPHYRIN MOLECULES

J. CHEM. SOC., CHEM. COMMUN., P1372, 1972
- 187 72 106 KING RB EFRATY A
1. MASS SPECTRA OF ORGANOMETALLIC COMPOUNDS. XII. TETRAPHENYLCYCLOBUTADIENE DERIVATIVES. 2.
INTRAMOLECULAR TRANSANNULAR CYCLIZATIONS OF MACROCYCLIC DIACETYLENES TO FORM CYCLOBUTADIENE
DERIVATIVES
AD-736 078 AND AD-741 994. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE,
SPRINGFIELD, VA, 22151, 1970
- 187 72 107 KING RB KAPOOR N
POLYTERTIARY PHOSPHINES AND ARSINES. 7. ZERO VALENT PLATINUM COMPLEXES OF ARYLATED POLYTERTIARY
PHOSPHINES AND ARSINES
INORG. CHEM., 11, 1524, 1972
- 187 72 108 KING RB EFRATY A
METAL COMPLEXES OF FLUOROPHOSPHINES. 2. USE OF TETRAKIS(TRIFLUOROPHOSPHINE) NICKEL AS A SOURCE OF
TRIFLUOROPHOSPHINE IN SYNTHESIS OF METAL-TRIFLUOROPHOSPHINE COMPLEXES. 3. SOME OXIDATIVE ADDITION
REACTIONS OF A RHODIUM-TRIFLUOROPHOSPHINE COMPLEX
JACS, 94, 3768, 1972 AND J. ORGANOMET. CHEM., 36, 371, 1972
- 187 72 109 KONDO T YAMAMOTO K KUNADA M
REACTION OF FERROCENYLMETHYL DERIVATIVES OF SILICON AND GERMANIUM WITH METHANOL: ANOMALOUS
SOLVOLYSIS OF METAL-CARBON BOND
J. ORGANOMET. CHEM., 35, NO. 1, C30, 1972
- 187 72 110 KOPYLOVA VD SALDADZE KM ASAMBADZ GD
STUDYING POLYMERIC CHELATES OF POLYETHYLENEPOLYAMINE WITH CATIONS OF TRANSITION METALS
Zh. PRIKL. KHIM., 44, 2512, 1971 IN RUSSIAN
- 187 72 111 KURSANDOV ON SETKINA VN GRISOV BG
ISOTOPIC HYDROGEN EXCHANGE IN BISARENE CHROMIUM COMPLEXES
J. ORGANOMET. CHEM., 37, NO. 2, C35, 1972
- 187 72 112 LAPPERT MF OLIVER AJ
THREE FRAGMENT OXIDATIVE ADDITION REACTION AS A ROUTE TO TRANSITION METAL CARBENE COMPLEXES: IMIDOYL
HALIDES AND RHODIUM(II)
J. CHEM. SOC., CHEM. COMMUN., P274, 1972
- 187 72 113 LARIN NV DEVYATYK GG GAIVORON PE
MASS SPECTROMETRY OF CHROMIUM BISARENE PI-COMPLEXES
Zh. NEORG. KHIM., 17, 1626, 1972 IN RUSSIAN
- 187 72 114 LARKIN GA SCOTT RP WALLBRID NG
SUBSTITUENT EFFECTS ON CARBENE FORMATION IN ISOCYANIDE COMPLEXES OF PALLADIUM(II)
J. ORGANOMET. CHEM., 37, NO. 1, C21, 1972

- 187 72 115 LAUBEREAU PG GANGULY L BURNS JH
PREPARATION AND PROPERTIES OF TRIINDENYL THORIUM CHLORIDE AND TRIINDENYL URANIUM CHLORIDE
INORG. CHEM., 10, 2274, 1971
- 187 72 116 LEE AG
1. THALLIUM DERIVATIVES OF IMIDAZOLE, TRIAZOLE, AND RELATED HETEROCYCLES. 2. THALLIUM(I) DERIVATIVES
OF BETA-DIKETONES, PHENOLS, AND CARBOXYLIC ACIDS
J. CHEM. SOC. A, P880 AND P2007, 1971
- 187 72 117 LEWIS J JOHNSON BF TAYLOR KA
REACTIONS OF HALOOLEFINS WITH TETRAKIS(DIPHENYLMETHYLPHOSPHINE) PLATINUM(0)
J. ORGANOMET. CHEM., 32, NO. 3, C62, 1971
- 187 72 118 LICHT K GEISSLER H KOEHLER P
UNTERSUCHUNGEN AN ZINNVERBINDUNGEN. 17. INFRAROT-RAMAN, MOSSBAUER, UND MASSENSPEKTROSKOPISCHE
UNTERSUCHUNGEN AN TRIORGANODINNFLUORIDEN
Z. ANORG. ALLG. CHEM., 385, 271, 1971
- 187 72 119 LIVINGSTONE SE NOLAN JD
COMPLEXES OF MANGANESE(III), IRON(II), COBALT(III), AND NICKEL(II) WITH THE NEW ALPHA, ALPHA', ALPHA''-
TRIMINE, 2,6-(DIBENZOTHAZOL-2-YL)PYRIDINE
J. CHEM. SOC., CHEM. COMMUN., P218, 1972
- 187 72 120 LODZINSKI A ROZPŁOCH A
PREPARATION AND PROPERTIES OF SOME BETA-DIKETONE CHELATES OF HEAVY METALS. 3. DIBENZOYL METHANE
COMPLEXES OF EU(III) AND SM(III) WITH ETHANOLAMINE
ROZC. CHEM., 46, 565, 1972
- 187 72 121 MAL'TSEV AK
IR AND MASS SPECTROSCOPIC INVESTIGATION OF PHENYL(Trichloromethyl) MERCURY
IZV. AKAD. NAUK SSSR, SER. KHIM., P1179, 1971 IN RUSSIAN
- 187 72 122 MANNAR BR NAIDU PR
ISOTOPIC EXCHANGE STUDIES OF BENZENE COMPLEXES OF COBALT(II)
J. INORG. NUCL. CHEM., 34, 379, 1972
- 187 72 123 MARUYAMA K MASHIMA M
SEPARATION AND CONCENTRATION OF ACETYLACETONATO CHELATES USING A BENZENE COLUMN
BULL. CHEM. SOC. JAPAN, 44, 2147, 1971
- 187 72 124 MATSUDA H MORI F KASHIWA A
STUDIES OF ORGANOMETALLIC COMPOUNDS. 43. REACTIONS OF ORGANOTIN CHLORIDES WITH SODIUM AZIDE
J. ORGANOMET. CHEM., 34, 341, 1972
- 187 72 125 MATSUDA I
REACTIONS OF GROUP-IV ORGANOMETALLIC COMPOUNDS. 22. AN EXTENSIVE STUDY ON PREPARATION OF SOME
OXADIAZINONES BY REACTION OF N-TRIMETHYLMETAL(IV)DIALKYLAMINES WITH BENZOYL ISOCYANATE
J. CHEM. SOC. C, P1870, 1971
- 187 72 126 McDONALD C RHODES T
CHELATION OF TRANSITION METALS BY DERIVATIVES OF 3-NITROSO-2-PYRIDINOL AND 5-NITROSO-4-PYRIMIDOL
ORG-4152-1, PROGRESS REPORT, SOUTHERN UNIV., BATON ROUGE, LA. DEPT. OF CHEMISTRY, OCT. 1971, 13P
- 187 72 127 MERCER EE GRAY LW
BLUE CHLOROAMINE COMPLEXES OF RUTHENIUM
JACS, 94, 6426, 1972
- 187 72 128 MIKULAJ V
MASSENSPEKTRUM VON DICYCLOPENTADIENYL BLEI
Z. NATURFORSCH., 26A, 1104, 1971
- 187 72 129 MITCHELL JW BANKS CV
VOLATILE COMPLEXES OF SOME LANTHANIDES AND RELATED ELEMENTS WITH FLUORINATED BETA-DIKETONES AND
ORGANOPHOSPHORUS ADDUCTS
ANAL. CHIM. ACTA, 57, 415, 1971
- 187 72 130 MIZUKAMI F ITO H FUJITA J
METAL COMPLEXES CONTAINING SIX MEMBERED CHELATE RINGS. 1. PREPARATION AND STRUCTURE OF 2,4-
PENTANEDIAMINETETRAACETATO COMPLEXES OF COBALT(III)
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971
- 187 72 131 MUELLEN J
MASS SPECTROSCOPIC INVESTIGATIONS ON TRI AND TETRACYCLOPENTADIENYL METAL COMPLEXES (TI, PR, HO, TM,
YB, LU, AS, SB, TH, U)
RFP-TRANS-137, TRANSLATED FROM CHEM. BER., 102, 152-160, 1969, 8P, NTIS
- 187 72 132 MULLER J
ZERFALL VON ORGANOMETALLKOMPLEXEN IM MASSENSPEKTROMETER. (DECOMPOSITION OF ORGANOMETALLIC COMPLEXES
IN MASS SPECTROMETER)
ANGEW. CHEM., 84, 725, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 653, 1972
- 187 72 133 NAKAMURA A TATSUND Y YAMAMOTO M OTSUKA S
O(18) ISOTOPIC INFRARED STUDY OF DIOXYGEN-TRANSITION METAL COMPLEXES
JACS, 93, 6052, 1971
- 187 72 134 NAKAMURA A OTSUKA S
REACTION OF TRANSITION METAL DIHYDRIDES. 1. INSERTION AND SUBSTITUTION AT THE METAL-HYDRIDE BONDS IN
DIHYDROUBIS(P1-CYCLOPENTADIENYL) MULTIBOENUM
JACS, 94, 1886, 1972
- 187 72 135 NAKAMURA Y ISOBE K MORITA H
SEVERAL METAL COMPLEXES CONTAINING ACETYLACETONE AS A NEUTRAL LIGAND
INORG. CHEM., 11, 1573, 1972
- 187 72 136 NAPPJER TE MEER DW
FIVE COORDINATE RHODIUM(I) COMPLEXES CONTAINING SMALL MOLECULES AND A CHELATING TRIPHOSPHINE LIGAND
JACS, 94, 306, 1972
- 187 72 137 NESMEYANOV AN BORISOV AE NOVIKOVA NV
REACTION OF SOME ORGANOMETALLIC MONOHYDRIDES WITH ETHYNYL FERROCENE
IZV. AKAD. NAUK SSSR, SER. KHIM., P1372, 1972

- 187 72 138 NESMEYANOV AN SEMIN GK KHOTSIAI TL
SPECTRA OF NUCLEAR QUADRUPOLE RESONANCE OF CHLORINE SUBSTITUTED ARENE-CYCLOPENTADIENYL CATIONS OF IRON
DOKL. AKAD. NAUK SSSR, 202, 854, 1972
- 187 72 139 NESMEYANOV AN JAVORSKI BM KOCHETKO NS
ELECTRON ABSORPTION SPECTRA OF COBALTCINUM SALTS
DOKL. AKAD. NAUK SSSR, 203, 120, 1972
- 187 72 140 NESMEYANOV AN SEDOVA NN SAZONOVA VA
DERIVATIVES OF CYMANTRENYL FERROCENE
DOKL. AKAD. NAUK SSSR, 207, 617, 1972 IN RUSSIAN
- 187 72 141 NESMEYANOV AN KRAVTSOV DN KVASOV BA
F(19) NMR STUDY OF ELECTRONIC EFFECTS IN ORGANOMERCURY, TIN, AND LEAD DERIVATIVES OF SOME FLUOROPHENOLS AND FLUOROTHIOPHENOLS
J. ORGANOMET. CHEM., 38, 307, 1972
- 187 72 142 NESMEYANOV AN KOCHETKO NS LEONOVA EV
ELECTRONIC EFFECTS IN METALLOCENES
J. ORGANOMET. CHEM., 39, 173, 1972
- 187 72 143 NILSSON M
MEISENHEIMER COMPOUNDS AND ARYL-2,4,6-TRINITROBENZENES FROM 2-FURYL COPPER OR 2-THIENYL COPPER AND 1,3,5-TRINITROBENZENE
TETRAHEDRON LETS, P2713, 1971
- 187 72 144 NISHIMUR K KURIBAYA K YAMAMOTO A
PREPARATION AND PROPERTIES OF ALKYL CHROMIUM DICHLORIDE COMPLEXES
J. ORGANOMET. CHEM., 37, 317, 1972
- 187 72 145 OLANDER WK BROWN TL
TRIALKYL CYCLOPROPENIUM METAL COMPOUNDS
JACS, 94, 2139, 1972
- 187 72 146 ORLOVA TI SETKINA VN MAKAROVA LG
ISOTOPIC HYDROGEN EXCHANGE IN CYCLOPENTADIENYL IRON COMPLEXES
DOKL. AKAD. NAUK SSSR, 201, 622, 1971 IN RUSSIAN
- 187 72 147 OTSUKA S
SELECTIVE CYCLOOLIGOMERIZATION OF ALLENE AND BISALLYL NICKEL(0) INTERMEDIATES
JACS, 94, 1037, 1972
- 187 72 148 OWEN DA HAWTHORNE MF
CHELATED BISCARBORANE TRANSITION METAL DERIVATIVES FORMED THROUGH CARBON-METAL SIGMA BONDS
JACS, 93, 873, 1971
- 187 72 149 OZBIRN WP
CRYSTAL STRUCTURE DETERMINATIONS OF THE PERCHLORATE AND CHLORIDE OF PENTAAMINECYANO COBALT(III)(+2)-1,2,5-TRIPHENYLPHOSPHOLE, AND 1,2,5-TRIPHENYLPYRROLE, AND A METHOD FOR PHASE DETERMINATION
IS-T-477, THESIS, IOWA STATE UNIV., AMES LAB, USAEC, AMES, AUG. 1971, 70P
- 187 72 150 PANT BC NOLTES JG DAVIDSON WE
CLEAVAGE REACTIONS OF LEAD-CARBON BOND. 2. REACTION OF TETRAORGANOLEAD COMPOUNDS WITH 1-CHLORO-1,2,3-BENZOTRIAZOLE. 3. REACTION OF TETRAORGANOLEAD AND HEXAORGANOLEAD COMPOUNDS WITH AMMONIUM HEXACHLOROPLUMBATE
J. ORGANOMET. CHEM., 36, 293 AND 39, 295, 1972
- 187 72 151 PAUSON PL TOMA S
3-AMINO-2,4-DIFERROCENYL CROTONITRILE, THE SUPPOSED FERROCENYLKETENIMINE
TETRAHEDRON LETS, P3367, 1971
- 187 72 152 PEDERSON E
MAGNETIC PROPERTIES AND MOLECULAR STRUCTURE OF MU-OXO-BIS (PENTAAMINE CHROMIUM(III)) ION
ACTA CHEM. SCAND., 26, 333, 1972
- 187 72 153 PEETERS J
INTERPRETATION OF SPECTRA OF SOME NICKEL(II) COMPLEXES
BULL. SOC. CHIM. BELGES, 81, 333, 1972
- 187 72 154 PETUKHOV GG GALIULLI RF KRASNOV VN
PREPARATION AND REACTIONS OF ORGANOZINC SILOXANES
ZH. OBSHCH. KHIM., 42, 1046, 1972
- 187 72 155 PLADZIEWICZ JR
ELECTRON TRANSFER REACTIONS OF FERROCENE
IS-T-469, THESIS, IOWA STATE UNIV., AMES LAB, USAEC, AMES, SEPT. 1971, 90P
- 187 72 156 POSNER GH WHITTEN CE MCFARLAND PE
ORGANOCOPPER CHEMISTRY, HALOCYANO, AND CARBONYL SUBSTITUTED KETONES FROM CORRESPONDING ACYL CHLORIDES AND ORGANOCOPPER REAGENTS
JACS, 94, 5106, 1972
- 187 72 157 RICHARDS MF SIEVERS RE
CRYSTAL AND MOLECULAR STRUCTURE OF MACROCYCLIC COMPLEX, 11,13-DIMETHYL-1,4,7,10-TETRAAZACYCLOTRIDECA-10,12-DIENATO NICKEL(II) PERCHLORATE
JACS, 94, 4134, 1972
- 187 72 158 ROLING PV RAUSCH HD
FORMATION OF 1,1'-OLIGOMERIC FERROCENES FROM MIXED ULLMANN REACTIONS OF HALOFERROCENES
J. ORG. CHEM., 37, 729, 1972
- 187 72 159 ROSENBLUM M
SYNTHESIS AND CHEMISTRY OF H(4)-CYCLOBUTADIENE(H(5)-CYCLOPENTADIENYL) COBALT
JACS, 94, 1239, 1972
- 187 72 160 ROTMAN A MAZUR Y
TRIS(TRIPHENYLPHOSPHINE)METHYL IRIIDIUM(II). SYNTHESIS, CHARACTERIZATION, AND THERMAL DECOMPOSITION
JACS, 94, 6226, 1972

- 187 72 161 SACCONI L ORIOLI PL
DATA ON THE STRUCTURE OF NI, CU, CO, PD, AND ZN COMPLEXES WITH ALPHA-BRANCHED SALICYLALDIMINE
ORNL-TR-2542. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM RIC. SCI., 32, 645, 1962, 3P
- 187 72 162 SAHINI VE TUFOI V IVANOV A
SOME CONSIDERATIONS ABOUT STABILITY OF COMPLEX COMBINATIONS OF COBALT
REV. ROUM. CHIM., 17, 617, 1972
- 187 72 163 SALAH OM BRUCE MI CHURCHIL MR
PREPARATION, IDENTIFICATION, AND CRYSTAL STRUCTURE OF A NOVEL HEXANUCLEAR IRIIDIUM-COPPER CLUSTER
COMPLEX
J. CHEM. SOC., CHEM. COMMUN., P858, 1972
- 187 72 164 SATO K INOUE S OTA S
REACTIONS OF PI-ALLYLIC NICKEL(II) BROMIDE WITH ORGANIC HALIDES. NOVEL SYNTHESIS OF MONOTERPENOID
COMPOUNDS
J. ORG. CHEM., 37, 462, 1972
- 187 72 165 SAUER DT SHREEVE JM
BIS(PERFLUOROALKYL)SULFUR OXYIMINES AND SILVER BIS(TRIFLUOROMETHYL)SULFUR OXYIMINE
INORG. CHEM., 11, 238, 1972, 19 REFERENCES
- 187 72 166 SCHMIDBAUR H
HETEROSILOXANE DES KUPFERS, SILBERS, UND GOLDS
CHEM. BER., 105, 3389, 1972
- 187 72 167 SCHWARTZ MA DUNN TJ
PLATINUM HYDRIDE ADDITION TO GERANYL AND FARNESYL METHYL ETHER
JACS, 94, 4205, 1972
- 187 72 168 SEYFERTH D MUELLER DC
HALOMETHYL-METAL COMPOUNDS. 45. ORGANOMERCURY CF₃CCl TRANSFER REAGENTS: PHHGCL₂CF₃ AND PHHGCL₂BrCF₃
JACS, 93, 3714, 1971
- 187 72 169 SHELLEY CF FISHEL DL
MASS SPECTROMETRY OF 1,1'-DIACETYLFERROCENE AND 1,1'-DIPROPIONYLFERROCENE: EVIDENCE FOR INTRAANNUAL
INTERACTION BETWEEN ALKANOYL SUBSTITUENTS
ORG. MASS SPECTRY, 6, 1131, 1972
- 187 72 170 SIMMONS EL WENDLAND WM
SOLID STATE PHOTOCHEMICAL REACTIONS OF TRANSITION METAL COORDINATION COMPOUNDS
COORD. CHEM. REV., 7, 11, 1971
- 187 72 171 SIMMONS EL WENDLAND WM
PREPARATION AND PROPERTIES OF CO(NH₂OH)₂Cl₂ AND MN(NH₂OH)₂Cl₂
J. INORG. NUCL. CHEM., 33, 3955, 1971
- 187 72 172 SLOCUM DW KOONSVIT BP ERNST CR
DIRECTED METALATION REACTIONS. 2. DEMONSTRATION OF DIRECTED LITHIATION AT 2-POSITION OF METHOXY AND
CHLORO FERROCENE
J. ORGANOMET. CHEM., 38, 125, 1972
- 187 72 173 SLOCUM DW ERNST CR
FUNDAMENTAL STUDIES IN SUBSTITUTED FERROCENE SYSTEM. 5. ORIENTATION IN ELECTROPHILIC SUBSTITUTION OF
METHOXYFERROCENE
TETRAHEDRON LETS, P5217, 1972
- 187 72 174 SLOCUM DW JONES WE ERNST CR
FUNDAMENTAL STUDIES OF SUBSTITUTED FERROCENE SYSTEMS. 6. ELECTRONIC EFFECTS IN ALKYLFERROCENES
J. ORG. CHEM., 37, 4278, 1972
- 187 72 175 SMIRNOV SK STRUKOV OG DUBOV SS
1,1-DICYANO-2,2-DIMETHYLETHYLENE COMPLEXES WITH CUCl₂ AND CUBr₂
ZH. NEORG. KHIM., 16, 2173, 1971
- 187 72 176 SMITH VH
METAL-DTPA CHELATES IN BIOLOGICAL SYSTEMS: A BIBLIOGRAPHY
BNWL-1657. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., APRIL 1972, 52P
- 187 72 177 SIRDAMANTAN MS MANCHANDA VK
COMPLEXES OF URANYL BETA-DIKETONES WITH AROMATIC AMINE N-OXIDES
J. INORG. NUCL. CHEM., 33, 3001, 1971
- 187 72 178 SUNDARARAJAN S WEHRY EL
PHOTOREDOX CHEMISTRY OF BIS(2,9-DIMETHYL-1,10-PHENANTHROLINE) COPPER(II) COMPLEX IN AQUEOUS AND
METHANOLIC MEDIA
J. PHYS. CHEM., 76, 1528, 1972
- 187 72 179 SUNDERMAN FW
TOXICOLOGY AND METABOLISM OF NICKEL COMPOUNDS
COO-3140-1. PROGRESS REPORT, DEC. 1971 - DEC. 1972. CONNECTICUT UNIV., FARMINGTON, SCHOOL OF
MEDICINE, 1972, 266P
- 187 72 180 TERRE FN PAREHALL CW
HYDRIDE DERIVATIVES OF NIOBOCENE AND TANTALOCENE
JACS, 93, 3793, 1971
- 187 72 181 TERLRIW JK HFFOMA W
MASS SPECTROMETRIC DETERMINATION OF METAL CHELATES. 4. 2-THENOYLTRIFLUOROACETONE AS A LIGAND FOR THE
DETERMINATION OF SOME TRANSITION METALS (ZN, NI, CR) AT THE NANOGRAM LEVEL
Z. ANAL. CHEM., 257, 177, 1971 IN GERMAN
- 187 72 182 THOMAS JL BRINTZINGER HH
MOLYBDENOCENE AS AN INTERMEDIATE IN REACTIONS WITH HYDROGEN, NITROGEN, AND CARBON MONOXIDE
JACS, 94, 1386, 1972
- 187 72 183 TIFFT EC
ELECTRON IMPACT STUDIES OF SOME GROUP-IVB ORGANOMETALLIC COMPOUNDS
THESIS, SYRACUSE UNIV., SYRACUSE, NEW YORK, UNIV. MICROFILMS ORDER NO. 72-11,870, DISS. ABS., 328,
10, 8726, 1972

- 187 72 184 TROST BM KINSON PL
ORGANOCOPPER CHEMISTRY. DECARBOXYLATION OF A BENZHYDRYL CARBOXYLIC ACID
J. ORG. CHEM., 37, 1273, 1972
- 187 72 185 TUCK DG YANG MK
COORDINATION COMPOUNDS OF INDIUM. 11. THE STEPWISE ONE ELECTRON REDUCTION OF SOME NEUTRAL
INDIUM(III) COMPLEXES
J. CHEM. SOC. A, P3100, 1971
- 187 72 186 UMILIN VA FEDOROV IE VANCHAGO VK
1. PRESSURE OF SATURATED VAPOUR OF BIS(ISOPROPYLBENZENE) CHROMIUM. BENZENEISOPROPYLBENZENE AND
ISOPROPYLBENZENE DIISOPROPYLBENZENE CHROMIUM. 2. VAPOUR PRESSURE AND RELATIVE VOLATILITY OF
VANADIUM BIS-ARENYL PI-COMPLEXES
IZV. AKAD. NAUK SSSR, SER. KHIM., P2805, 1971 AND P651, 1972
- 187 72 187 URRY G
COVALENTLY BONDED COMPOUNDS OF THE LIGHT ELEMENTS
COO-3544-1. FINAL REPORT, NOV. 1968 - NOV. 1970. TUFTS UNIV., MEDFORD, MASS. DEPT. OF CHEMISTRY, 25P
- 187 72 188 VAN DEN BERGEN A
SOME ORGANOMETALLIC AND 'SIMPLE' SCHIFF BASE CHELATES OF TIN(IV)
J. CHEM. SOC. A, P3060, 1970
- 187 72 189 VITULLI G PORRI L SEGRE AL
PREPARATION AND PROPERTIES OF A BUT-2-ENYLBUTADIENE COMPLEX OF COBALT AND OF AN ANALOGOUS COMPLEX
FROM ISOPRENE
J. CHEM. SOC. A, NO. 21, XXX, 1971
- 187 72 190 VON AMMON R
H(1) NMR UNTERSUCHUNGEN ZUR MOLEKULSTRUKTUR UND ZUR KONFORMATIVEN BEWEGLICHKEIT PARAMAGNETISCHER
METALLOORGANISCHER ALKOXY KOMPLEXE DES URANS(IV): TRIS(CYCLOPENTADIENYL)-N-HEXYLOXY, CYCLOHEXYLOXY
UND CHOLESTERYLOXY URAN(IV)
CHEM. BER., 105, 45, 1972
- 187 72 191 WATTS WE HABIB MJA
STABLE CARBONIUM IONS. 1. 2-FERROCENYLNORBORNAN-2-YL CATION. 2. THE PROPERTIES OF
1-FERROCENYL-3-ARYLALEYL CATIONS
J. CHEM. SOC. C, P2552 AND P2556, 1970
- 187 72 192 WAYNE G
METALLOPORPHYRIN PHOTOCHEMISTRY. A RUTHENIUM(II) PORPHYRIN PHOTODIMER WITH A METAL-METAL BOND
JACS, 94, 4350, 1972
- 187 72 193 WHITE JB
PREPARATION AND SPECTRAL STUDIES OF VANADIUM(III,-IV,-V) TROPOLONATES AND SEVERAL NEW VANADIUM(III)
COMPLEXES
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, UNIV. MICROFILMS ORDER NO. 70-18,573, DISS. ABS., 318,
4, 1809, 1970
- 187 72 194 WHITESIDES GM
1. RADICAL INTERMEDIATES IN THE THERMAL DECOMPOSITION OF NEOPHYL(TRI-N-BUTYLPHOSPHINE) COPPER(II) AND
SILVER(II). 2. MECHANISM OF THERMAL DECOMPOSITION OF DI-N-BUTYLBIS(TRIPHENYLPHOSPHINE) PLATINUM(II)
JACS, 94, 232 AND 5258, 1972
- 187 72 195 WIDMER HM
UBER DIE SOLVATATION VON IONEN UND METALL KOMPLEXEN IN ORGANISCHEN LOSUNGSMITTELN

CHIMIA (AARAU), 26, 229, 1972
- 187 72 196 WILLIAMS-SMITH DL
REACTIONS OF IRON ATOMS WITH UNSATURATED HYDROCARBONS
JACS, 94, 4042, 1972
- 187 72 197 YONEDA H TAKAGI I MORIMOTO Y
HYDROGEN-DEUTERIUM EXCHANGE IN THE METHYL GROUP OF FOUR BISDIMETHYLGLYOXIMATE COBALT(III) COMPLEXES
BULL. CHEM. SOC. JAPAN, 44, 3493, 1971
- 187 72 198 ZAITSEVA NG ISLAMOVA KM
CHELATES OF SOME BETA-DIKETONES AND THEIR APPLICATION (REVIEW)
JINR-P12-6355. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR. LAB. OF NUCLEAR PROBLEMS, 1972, 32P IN
RUSSIAN
- 188 72 001 ADLOFF JP
CHEMICAL EFFECTS OF NUCLEAR TRANSFORMATIONS. BIBLIOGRAPHY 1970
NP-19125. STRASBOURG UNIV., FRANCE. LABORATOIRE DE CHIMIE NUCLEAIRE, 36P IN SEVERAL LANGUAGES
- 188 72 002 ALBERANI V
SOME ABSTRACTING AND INDEXING PERIODICALS IN THE FIELD OF PHYSICAL SCIENCES
ISS-70/21. ISTITUTO SUPERIORE DI SANITA, ROME, ITALY. LABORATORI DI FISICA, JULY 1970, 46P IN
ITALIAN
- 188 72 003 ALBERT RE ALTSCHULER B
CONSIDERATIONS RELATING TO THE FORMULATION OF LIMITS FOR UNAVOIDABLE POPULATION EXPOSURES TO
ENVIRONMENTAL CARCINOGENS
COO-3380-9. NEW YORK UNIV., N.Y., INST. OF ENVIRONMENTAL MEDICINE, JULY 1972, 41P. CONF-720505-5.
NTIS
- 188 72 004 AUTIAN J
TOXICITY AND HEALTH THREATS OF PHTHALATE ESTERS: REVIEW OF LITERATURE
ORNL-TIRC-72-2. OAK RIDGE NATIONAL LAB., TENN., AUG. 1972, 36P. NTIS
- 188 72 005 BARTLETT N
NOBLE GAS CHEMISTRY AND ITS SIGNIFICANCE
LBL-416. CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB., NOV. 1971, 18P
- 188 72 006 BATES DR ESTERMAN I
ADVANCES IN ATOMIC AND MOLECULAR PHYSICS, VOLUME 7
BOOK, ACADEMIC PRESS, INC., NEW YORK, 1971, 417P, 8 PAPERS
- 188 72 007 BAXTER P
POLLUTION IN OUR ENVIRONMENT
AUSTRALIAN CHEM. PROCESS. ENG., 24, NO. 4, 18, 1971

- 188 72 008 BERG GG
DDT AND THE ENVIRONMENT
UR-3490-33. ROCHESTER UNIV., NEW YORK, DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS, 1970. 3P. NTIS
- 188 72 009 BERKE ML
METABOLISM OF THE RARE EARTHS FOLLOWING INHALATION: PATHOLOGIC AND BIOCHEMICAL RESPONSE IN THE LUNG
AND OTHER ORGANS
COO-1630-29. FINAL REPORT, TO SEPT. 15, 1972. WAYNE STATE UNIV., DETROIT, MICH., 1972. 21P
- 188 72 010 BIENVENJ P NOFRE C CIER A
COMPARATIVE GENERAL TOXICITY OF METALLIC IONS. RELATION TO THE PERIODIC SYSTEM
ORNL-TR-2551. TRANSLATED FROM OAK RIDGE NATIONAL LAB., TENN., FROM COMPT. REND., 256, 1043, 1963, 4P
- 188 72 011 BINGHAM R DEWAR M
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
AD-760 068. TEXAS UNIV., AUSTIN, DEPT. OF CHEMISTRY, MAY 1972. 9P
- 188 72 012 BODOR N DEWAR M LD D
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
AD-760 099. TEXAS UNIV., AUSTIN, DEPT. OF CHEMISTRY, NOV. 1971. 10P
- 188 72 013 BONILLA CF
PROCEEDINGS OF 5TH SYMPOSIUM ON THERMOPHYSICAL PROPERTIES. BOSTON, MASSACHUSETTS, SEPT. 30 - OCT. 2,
1970
BOOK. AMERICAN SOCIETY OF MECHANICAL ENGINEERS, NEW YORK, 1970. 513P. CONF-700901
- 188 72 014 BRAME EG
APPLIED SPECTROSCOPY REVIEWS. VOLUME 4
BOOK. MARCEL DEKKER, INC., APRIL 1971. 279P
- 188 72 015 BRANSCOM LM
WHY PEOPLE FEAR TECHNOLOGY
CON-27-5049. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 188 72 016 BRANSON BH
ATOMIC COLLISION THEORY. LECTURE NOTES AND SUPPLEMENTS IN PHYSICS
BOOK. W. A. BENJAMIN, INC., NEW YORK, 1970. 467P
- 188 72 017 BRAUNSTEIN J MAMANTOV G SMITH GP
ADVANCES IN MOLTEN SALT CHEMISTRY. VOLUME 1
BOOK. PLENUM PUBLISHING CORP., NEW YORK, 1971. 294P
- 188 72 018 BREKHOVSKIKH SM VIKTOROVA YN GRINShteIN YL LANDA LM
OSNOVY RADIATIONNOGO MATERIALOVEDENIYA STEKLA I KERAMIKI. (RADIATION EFFECTS ON GLASS AND CERAMICS)
BOOK, IZDATEL'STVO LITERATURY PO STROITEL'STVU, MOSCOW, 1971. 256P. 516 REFERENCES
- 188 72 019 BUVET R PONNAMPE C
CHEMICAL EVOLUTION AND ORIGIN OF LIFE
JACS. 94. 1795. 1972
- 188 72 020 CARLSON TA
GENERAL SURVEY OF ELECTRON SPECTROSCOPY
CONF-710909-3. OAK RIDGE NATIONAL LAB., TENN., 1971. 45P. FROM INTERNATIONAL CONFERENCE ON ELECTRON
SPECTROSCOPY, PACIFIC GROVE, CALIF., SEPT. 7, 1971
- 188 72 021 CARLSON TA
PRESENT AND FUTURE APPLICATIONS OF AUGER SPECTROSCOPY
CONF-720404-5. OAK RIDGE NATIONAL LAB., TENN., 1972. 33P. FROM INTERNATIONAL CONFERENCE ON INNER
SHELL IONIZATION PHENOMENA, ATLANTA, GA., APRIL 17, 1972
- 188 72 022 CASTLEMAN AW
AEROSOL CHEMISTRY
BNL-17174. BROOKHAVEN NATIONAL LAB., UPTON, NEW YORK. 26P. CONF-720721-1. FROM CHEMISTRY AND PHYSICS
OF UPPER ATMOSPHERES MEETING, ORLEANS, FRANCE, JULY 31, 1972
- 188 72 023 CHAIKHORSKII AA
SOME PRINCIPLES OF D.I. MENDELEEV'S PERIODIC SYSTEM AND PREDICTION OF CHEMICAL PROPERTIES OF
ULTRAHEAVY ELEMENTS
SOV. RADIOCHEM. (ENGL. TRANS.), 12. 771. 1970. TRANSLATED FROM RADIOKHIMIYA, 12. 801, 1970
- 188 72 024 CHRISTOPHOROU LG
ATOMIC AND MOLECULAR RADIATION PHYSICS
BOOK. JOHN WILEY AND SONS, INC., NEW YORK, 1971. 680P. WILEY MONOGRAPHS IN CHEMICAL PHYSICS
- 188 72 025 CHURCH HW LUNA RE
PROCEEDINGS OF THE SYMPOSIUM ON AIR POLLUTION, TURBULENCE, AND DIFFUSION, DECEMBER 7-10, 1971
SC-M-710913. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, MARCH 1972. 398P. CONF-711219
- 188 72 026 CLARKSON TW
1. MERCURY AS AN OBJECT LESSON IN TOXICOLOGY. 2. MODE OF ACTION OF HEAVY METALS
1. UR-3490-55, 1971. 99P. 2. UR-3490-78. 1971. 30P. ROCHESTER UNIV., NEW YORK, SCHOOL OF MEDICINE
AND DENTISTRY
- 188 72 027 CLARKSON TW MAGOS L GREENWOOD MR
TRANSPORT OF ELEMENTAL MERCURY INTO FETAL TISSUES
UR-3490-77. ROCHESTER UNIV., NEW YORK, 1971. DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS. 8P
- 188 72 028 CLARKSON TW SHAPIRO RE
ABSORPTION OF MERCURY FROM FOOD, ITS SIGNIFICANCE AND NEW METHODS OF REMOVING MERCURY FROM THE BODY
UR-49-1412. ROCHESTER UNIV., NEW YORK AND FOOD AND DRUG ADMINISTRATION, WASHINGTON, D.C., 1971. 9P.
CONF-710227-1. FROM SYMPOSIUM ON MERCURY IN MAN'S ENVIRONMENT, OTTAWA, CANADA, FEB. 15, 1971
- 188 72 029 CORIO PL SMITH SL WASSON JR
NUCLEAR MAGNETIC RESONANCE SPECTROMETRY (REVIEW)
ANAL. CHEM., 44. NO. 5. 407R-38R, 1972. 1978 REFERENCES
- 188 72 030 CROWIN A DELANEY J MCHURRAY J SARRIS G
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
AD-760 148. ANALYSIS AND COMPUTER SYSTEMS INC., BURLINGTON, MASS., NOV. 1972. 102P

- 188 72 031 CUNNINGHAM BB
CHEMISTRY OF ACTINIDE AND TRANSACTINIDE ELEMENTS
PP 307-49 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII.
MILLIGAN, W.O. (ED.). ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970. CONF-691124
- 188 72 032 CUNNINGHAM BB
COORDINATION CHEMISTRY AND PHYSICAL PROPERTIES OF TRANSPLUTONIUM ACTINIDE COMPOUNDS
PURE APPL. CHEM., 27, 43-60, 1971. 80 REFERENCES
- 188 72 033 DE SAINT SIMON M
SPECTROMETRIC INVESTIGATIONS OF VERY SMALL QUANTITIES OF RARE EARTHS FORMED IN NUCLEAR REACTIONS. A
METHOD FOR SIMULTANEOUSLY IDENTIFYING THE A AND Z VALUES OF THESE ELEMENTS FROM THE DECOMPOSITION
OF THEIR OXIDES
FRNC-TH-145, THESIS, PARIS UNIV., FRANCE, 1971. 44P IN FRENCH
- 188 72 034 DZHELEPOV VP
PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS AND NUCLEAR STRUCTURE, DUBNA,
USSR, SEPT. 7-11, 1971
JINR-01-6349, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, 1972. 670P IN RUSSIAN AND ENGLISH.
CONF-710911
- 188 72 035 ENSSLEN B
BIBLIOGRAPHIES IN NUCLEAR SCIENCE AND TECHNOLOGY, SECTION 12. NUCLEAR SCIENCE LITERATURE OF EASTERN
COUNTRIES, NUMBER 23, PLASMAPHYSICS
AEO-C-12-23, ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN, WEST GERMANY,
SEPT. 1971. 109P IN GERMAN AND ENGLISH. 1919 REFERENCES
- 188 72 036 EYRING H
ANNUAL REVIEW OF PHYSICAL CHEMISTRY, VOLUME 22
BOOK, ANNUAL REVIEWS INC., PALO ALTO, CALIF., 1971. 648P. 17 PAPERS
- 188 72 037 EYRING L
ADVANCES IN HIGH TEMPERATURE CHEMISTRY, VOLUME 3
BOOK, ACADEMIC PRESS INC., NEW YORK, 1971. 300P
- 188 72 038 FEDORENKO NV
5TH YUGOSLAV SYMPOSIUM AND SUMMER SCHOOL ON PHYSICS OF IONIZED GASES
SOV. AT. ENERGY (ENGL. TRANS.), 30, 94, 1971
- 188 72 039 FIELD PE
PROCEEDINGS OF THE 9TH RARE EARTH RESEARCH CONFERENCE, BLACKSBURG, VIRGINIA, OCTOBER 10-14, 1971.
VOLUMES 1 AND 2
CONF-711001(VOL.1), 442P. 39 PAPERS, 9 ABSTRACTS. CONF-711001(VOL.2), 407P. 34 PAPERS, 5 ABSTRACTS.
VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG
- 188 72 040 FRANK-KAMENETSKI DA
PLASMA: THE FOURTH STATE OF MATTER
BOOK, PLENUM PUBLISHING CORP., NEW YORK, 1972. 165P. TRANSLATION OF, PLAZMA: CHETVERTOE SOSTOYANIE
VESHCHESTVA
- 188 72 041 GERRARD M
1. BACILLUS THURINGIENSIS: HUMAN AND ANIMAL TOXICITY. 2. TOXICOLOGICAL EFFECTS OF HEROIN AND
METHADONE ON FETUSES, NEWBORN BABIES, AND REPRODUCTIVE SYSTEMS. 3. ETHOGLUCID TOXICITY IN MAN AND
ANIMALS. 4. EFFECTS OF NARCOTICS, NARCOTIC ANTAGONISTS, AND NARCOTIC SUBSTITUTES ON THE MAMMALIAN
SYSTEM. X. HEROIN
1. ORNL-TIP/TIRC-72-14, 2P. 2. ORNL-TIP/TIRC-72-21, 7P. 3. ORNL-TIP/TIRC-72-27, 2P. 4. ORNL-TIP/
TIRC-72-40, 19P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE NATIONAL LAB., TENN., AUGUST
1972
- 188 72 042 GERRARD M
1. TOXICITY AND BIOLOGICAL EFFECTS OF VANADIUM IN ANIMALS. 2. EFFECTS OF BROMIDE ION IN ANIMALS (SELECTED, RECENT). 3. MAXIMUM SAFE LEVELS OF FLUORINE FOR MAN AND ANIMALS
1. ORNL-TIP/TIRC-72-44, 20P. 2. ORNL-TIP/TIRC-72-47, 6P. 3. ORNL-TIP/TIRC-72-53, 3P. TOXICOLOGY
INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972
- 188 72 043 GERRARD M
1. TOXICOLOGY OF DIETHYLAMINETHANOL. 2. BIOLOGICAL EFFECTS OF TITANIUM. 3. MERCURY TOXICITY TO
HUMANS
1. ORNL-TIP/TIRC-72-48, 3P. SEPT. 1972. 2. ORNL-TIP/TIRC-72-65, 11P. OCT. 1972. 3. ORNL-TIP/
TIRC-72-68, 7P. OCT. 1972. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN.
- 188 72 044 GERRARD M
MAMMALIAN TOXICITY OF PIPERONYL BUXOXIDE
ORNL-TIP/TIRC-72-69, TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., OCT. 1972. 9P. NTIS
- 188 72 045 GERRARD M
1. TOXICITY OF TIN IN ANIMALS. 2. TOXICITY AND BIOLOGICAL EFFECTS OF PLATINUM. 3. TOXICITY AND
BIOLOGICAL EFFECTS OF ALUMINUM IN ANIMALS
1. ORNL-TIP/TIRC-72-74, 17P. 2. ORNL-TIP/TIRC-72-75, 8P. 3. ORNL-TIP/TIRC-72-76, 18P. TOXICOLOGY
INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., NOVEMBER 1972
- 188 72 046 GERSTNER H
1. TOXICITY OF CHROMIUM. 2. TOXICITY OF HCL TO PLANTS AND MAMMALS. 3. TOXICITY OF STROBANE. 4.
MAXIMUM ALLOWABLE CONCENTRATIONS OF CHROMIUM IN POTABLE WATER FOR HUMANS
1. ORNL-TIP/TIRC-72-3, 8P. 2. ORNL-TIP/TIRC-72-9, 4P. 3. ORNL-TIP/TIRC-72-12, 6P. 4. ORNL-TIP/
TIRC-72-15, 3P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972
- 188 72 047 GERSTNER H
1. BIOCHEMISTRY OF SO2: INTERACTION WITH BODY FLUIDS AND TISSUES. 2. BIOCHEMISTRY OF NO AND NO2:
INTERACTION WITH BODY FLUIDS AND TISSUES. 3. TOXICITY OF ORGANOSILICON COMPOUNDS TO AQUATIC LIFE.
4. TOXICITY OF STANNOUS CHLORIDE TO HUMANS AND ANIMALS
1. ORNL-TIP/TIRC-72-19, 7P. 2. ORNL-TIP/TIRC-72-20, 7P. 3. ORNL-TIP/TIRC-72-26, 4P. 4. ORNL-TIP/
TIRC-72-29, 2P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE TENN., AUG. 1972
- 188 72 048 GERSTNER H
1. YTTRIUM TOXICITY TO HUMANS. 2. TOXICITY ASPECTS OF SILICA OR QUARTZ PARTICLES. 3. TOXICITY OF
ELEMENTAL PHOSPHORUS. 4. TOXICITY OF IRON
1. ORNL-TIP/TIRC-72-51, 2P. AUG. 1972. 2. ORNL-TIP/TIRC-72-62, 9P. SEPT. 1972. 3. ORNL-TIP/
TIRC-72-63, 13P. SEPT. 1972. 4. ORNL-TIP/TIRC-72-73, 12P. NOV. 1972. TOXICOLOGY INFORMATION
RESPONSE CENTER, OAK RIDGE, TENN.

- 188 72 049 GERSTNER H OLIVEIRA D (3)
1. TOXICITY AND USES OF MIREX. 2. TOXICOLOGY OF THE ALCOHOL, 2-ETHYLHEXANOL. 3. TOXICITY OF
PHTHALATE ESTERS
1. ORNL-TIP/TIRC-72-66, 7P. 2. ORNL-TIP/TIRC-72-67, 5P. 3. ORNL-TIP/TIRC-72-70, 13P. TOXICOLOGY
INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., OCT. 1972. NTIS
- 188 72 050 GIROUD AM
CHEMISTRY AND BIOCHEMISTRY OF PROSTAGLANDINS
CEA-BIB-197. THESIS, GRENOBLE UNIV., FRANCE, AUG. 1971, 41P IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, GRENOBLE, FRANCE. CENTRE D'ETUDES NUCLEAIRES
- 188 72 051 GOL'DANSKII VI
MODERN TRENDS IN NUCLEAR CHEMISTRY
JPRS-55491. TRANSLATED FROM FIZ. SZEMLE, 21, NO. 11, 329, 1971, 17P
- 188 72 052 GOLDSTEIN G
BIOCHEMICAL INDICATORS OF ENVIRONMENTAL POLLUTION
CONF-711203-1. OAK RIDGE NATIONAL LAB., TENN., 1971, 39P. NTIS. FROM AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE ANNUAL MEETING, PHILADELPHIA, PA., DEC. 26, 1971
- 188 72 053 GORDON AJ FORD RA
THE CHEMIST'S COMPANION
BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS INC., NEW YORK, 1972, 560P
- 188 72 054 GREEN BJ
TOKAMAK BIBLIOGRAPHY
IPP-6/93. INSTITUT FUER PLASMAPHYSIK, G.M.B.H., GARCHING, WEST GERMANY, MARCH 1971, 124P. 604
REFERENCES
- 188 72 055 GSCHNEIDNER KA
PRODUCTION, QUALITY CONTROL, AND APPLICATIONS OF PURE RARE EARTH METALS AND ALLOYS
IS-2966. IOWA STATE UNIV., AMES LAB, USAEC, AMES, 1972, 10P. CONF-720839-4. FROM ANALYSIS AND
APPLICATION OF RARE EARTH MATERIALS CONFERENCE, KJELLER, NORWAY, AUG. 23, 1972
- 188 72 056 HANNAY NB
BELL SYSTEM AND POLLUTION CONTROL
BELL LAB. REC., 50, NO. 6, 199, 1972
- 188 72 057 HARTE J SOCOLOW RH
PATIENT EARTH
BOOK, HOLT, RINEHART, AND WINSTON INC., NEW YORK, 1971, 377P
- 188 72 058 HASTED JB
PHYSICS OF ATOMIC COLLISIONS, 2ND EDITION
BOOK, BUTTERWORTHS, LONDON, 1972, 773P, 12 CHAPTERS
- 188 72 059 HEMPHILL DD
TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH, IV. PROCEEDINGS OF 4TH ANNUAL CONFERENCE HELD AT COLUMBIA,
MISSOURI, JUNE 23-25, 1970. V. PROCEEDINGS OF UNIVERSITY OF MISSOURI'S 5TH ANNUAL CONFERENCE,
COLUMBIA, MISSOURI, JUNE 29 - JULY 1, 1971.
BOOKS, IV. 1971, 468P, 46 PAPERS, CONF-700664. V. 1972, 575P, 46 PAPERS, CONF-710645. UNIVERSITY OF
MISSOURI PRESS, COLUMBIA
- 188 72 060 HERZBERG G
THE ENDLESS QUEST
NEW SCIENTIST, 54, NO. 797, 442, 1972
- 188 72 061 HEWLETT RG ANDERSON DE DUNCAN F
HISTORY OF THE UNITED STATES ATOMIC ENERGY COMMISSION. VOLUME I. 1939/1946, THE NEW WORLD. VOLUME
II. 1947/1952, ATOMIC SHIELD
WASH-1214 AND WASH-1215. ATOMIC ENERGY COMMISSION, WASHINGTON, D.C., 1972, 766P AND 718P. NTIS
- 188 72 062 HILL FB
ATMOSPHERIC SULFUR AND ITS LINKS WITH THE BIOSPHERE
BNL-16906. BROOKHAVEN NATIONAL LAB., UPTON, NEW YORK, 1972, 49P. CONF-720510-1. FROM CARBON AND THE
BIOSPHERE CONFERENCE, UPTON, NEW YORK, MAY 16, 1972
- 188 72 063 HOEHLEIN B
PHYSICAL PROPERTIES OF GAS MIXTURES WITH H₂, CH₄, H₂O, N₂, CO, AND CO₂
JUL-847-RB. KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY. INSTITUT FUER REAKTORBAUELEMENTE, APRIL
1972, 71P IN GERMAN
- 188 72 064 HOLLAND F
1. MESITYL OXIDE: TOXICITY AND MANUFACTURING CONTAMINANTS. 2. TOXICITY OF DILUTE PHENOL AS IN
MOUTHWASHES. 3. DIETHYLPYROCARBONATE TOXICOLOGY AND PHARMACOLOGY
1. ORNL-TIP/TIRC-72-5, 6P. 2. ORNL-TIP/TIRC-72-8, 11P. 3. ORNL-TIP/TIRC-72-52, 4P. TOXICOLOGY
INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972
- 188 72 065 HOLLAND F
TOXICITY OF BUTYLATED HYDROXYTOLUENE
ORNL-TIP/TIRC-72-71. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., OCT. 1972, 12P. NTIS
- 188 72 066 HOTOP H LINEBERG W
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
AD-760 234. JOINT INST. FOR LAB. ASTROPHYSICS, BOULDER, COLO., NOV. 1972, 9P
- 188 72 067 HOUGEN J
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
COM-73-50362. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., 1972, 11P
- 188 72 068 HOUTMAN JPM TJIOE PS
FUNCTION OF TRACE ELEMENTS IN BIOMEDICAL SCIENCE
IRI-133-72-6. INTERUNIVERSITAIR REACTOR INSTITUUT, DELFT, NETHERLANDS, 15P IN DUTCH. CONF-720425-2.
FROM SYMPOSIUM ON NUCLEAR ACTIVATION TECHNIQUES IN LIFE SCIENCES, BLEO, YUGOSLAVIA, APRIL 10, 1972
- 188 72 069 HUGGINS RA
ANNUAL REVIEW OF MATERIALS SCIENCE, VOLUME 1
BOOK, ANNUAL REVIEWS, INC., PALO ALTO, CALIF., 1971, 427P, 12 CHAPTERS

- 188 72 070 JIGGINS AH DEMETSOPOLLOS IC
USE OF LOW ENERGY ACCELERATORS. PROCEEDINGS OF THE SYMPOSIUM, LONDON, MAY 27-29, 1970
NUCL. INSTRUM. METHODS, 92, 445-636, 1971. CONF-700563, 26 PAPERS
- 188 72 071 JINKS SM EISENBUD M
CONCENTRATION FACTORS IN THE AQUATIC ENVIRONMENT
RADIAT. DATA REP., 13, NO. 4, 243, 1972
- 188 72 072 KALAGHAN P DALGARNO A
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
AD-759 883. AIR FORCE CAMBRIDGE RESEARCH LABS., L.G. HANSCOM FIELD, MASSACHUSETTS, FEB. 1972, 3P
- 188 72 073 KARASEK FW
VIKING MARS BIOLOGY EXPERIMENTS
RES./DEVELOP., 23, NO. 5, 28, 1972
- 188 72 074 KELLER C
KERNCHEMIE IN EINZELDARSTELLUNGEN (CHEMISTRY OF THE TRANSURANIUM ELEMENTS) VOLUME 3
BOOK, VERLAG CHEMIE GMBH, WEINHEIM, GERMANY, 1971, 689P
- 188 72 075 KELLER OL
ACTINIDE AND TRANSACTINIDE ELEMENTS PRODUCTION AND RESEARCH AT OAK RIDGE
PP 245-87 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII.
THE TRANSURANIUM ELEMENTS. MILLIGAN, W.O. (ED.). ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970.
CONF-691124
- 188 72 076 KELLER OL
SOME SELECTED TOPICS IN ACTINIDE, TRANS ACTINIDE, AND SUPERHEAVY ELEMENTS RESEARCH AT OAK RIDGE
CONF-720931-1. OAK RIDGE NATIONAL LAB., TENN., 1972, 28P. FROM SYMPOSIUM ON THE CHEMISTRY OF THE
TRANSURANIUM ELEMENTS, MOSCOW, USSR, SEPT. 4, 1972
- 188 72 077 KELLOGG MW CADLE RD ALLEN ER LAZRUS AL MARTELL EA
THE SULFUR CYCLE
SCIENCE, 175, 587, 1972, 60 REFERENCES
- 188 72 078 KERR AK
PUBLICATIONS OF LASL RESEARCH, 1970
LA-4900. LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, APRIL 1972, 232P
- 188 72 079 KING RB
CHEMICAL APPLICATIONS OF TOPOLOGY AND GROUP THEORY, 6. POLYHEDRAL WATER NETWORKS IN CLATHRATES AND
SEMICLATHRATES
THEOR. CHIM. ACTA, 25, 309, 1972
- 188 72 080 KONDRAT'EV KY RYCROFT MJ SAGAN C
SPACE RESEARCH XI, VOLUMES 1 AND 2, PROCEEDINGS OF OPEN MEETINGS OF WORKING GROUPS OF THE 13TH
PLENARY MEETING OF COSPAR, LENINGRAD, USSR, MAY 20-29, 1970 AND OF THE SYMPOSIUM ON REMOTE
SOUNDING OF THE ATMOSPHERE, LENINGRAD, USSR, MAY 25-26, 1970
BOOKS, AKADEMIE-VERLAG, BERLIN, GERMANY, 1971. IN ENGLISH AND FRENCH. CONF-700568(VOL.1), 774P.
CONF-700568(VOL.2), 667P
- 188 72 081 KUBOYAMA A
SPECTROSCOPY LECTURE, (4) MOLECULAR SPECTRA: ELECTRONIC SPECTRA, FLUORESCENCE, AND PHOSPHORESCENCE
J. SPECTROSC., SOC. JAPAN, 20, NO. 4, 220, 1971
- 188 72 082 KURODA PK

1. ATMOSPHERIC RADIOCHEMISTRY, 2. NUCLEAR CHEMISTRY
1. ORN-2522-10, 68911, 1972, 1970; ORN-2000-0, JULY 1970, 87P. ANNUAL PROGRESS REPORTS ARKANSAS
UNIV., FAYETTEVILLE, DEPT. OF CHEMISTRY
- 188 72 083 LAPOSTOLLE PM SEPTIER AL
LINEAR ACCELERATORS
BOOK, NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, 1970, 1225P, 46 CHAPTERS
- 188 72 084 LEE YT
DYNAMICS OF CHEMICAL REACTIONS
COD-2092-2. TECHNICAL PROGRESS REPORT, JAN. 1971 - JAN. 1972, CHICAGO UNIV., ILL. JAMES FRANCK INST.
8P
- 188 72 085 LESTER W KRAUSS M
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
COM-73-50409. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., 1970, 7P
- 188 72 086 LIPPARO SJ
PROGRESS IN INORGANIC CHEMISTRY, VOLUME 14
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1971, 446P
- 188 72 087 MCDOWELL CA
MTP INTERNATIONAL REVIEW OF SCIENCE, CHEMISTRY (SERIES ONE), VOLUME 4, MAGNETIC RESONANCE
BOOK, BUTTERWORTHS, LONDON, 1972, 360P
- 188 72 088 MCDOWELL MRC COLEMAN JP
INTRODUCTION TO THE THEORY OF ION-ATOM COLLISIONS
BOOK, NORTH-HOLLAND PUBLISHING CO., AMSTERDAM AND LONDON, 1970, 442P, 8 CHAPTERS
- 188 72 089 MCGLYNN SP HOCHMANN P MARIA HJ
GENEALOGY IN MOLECULAR SPECTROSCOPY
TID-26072. LOUISIANA STATE UNIV., BATON ROUGE, COATES CHEMICAL LABS., 1971, 89P
- 188 72 090 MCGLYNN SP
PHYSICO-CHEMICAL STUDY OF SOME AREAS OF FUNDAMENTAL SIGNIFICANCE TO BIOPHYSICS
ORO-3018-82. ANNUAL REPORT, 1970 - 1971. LOUISIANA STATE UNIV., BATON ROUGE, DEPT. OF CHEMISTRY, MAY
1971, 54P
- 188 72 091 MCKAY HAC
PRINCIPLES OF RADIOCHEMISTRY
BOOK, BUTTERWORTHS, LONDON, 1971, 550P, 8 CHAPTERS
- 188 72 092 MEMRA J
ALBERT EINSTEIN'S 'FIRST' PAPER
ORO-3992-31. TEXAS UNIV., AUSTIN, CENTER FOR PARTICLE THEORY, JAN. 1971, 41P

- 188 72 093 MILLER KC
1. MAMMALIAN TOXICITY OF PURPURIN, QUINIZARIN, QUINALIZARIN, DIPHENYLTHIOCARBAZONE, AND 1,5-DIPHENYL-3-THIOCARBONYLDRAZIDE. 2. POSSIBLE HUMAN SCREENING METHODS FOR THE FUNGICIDE, HEXACHLOROBENZENE
1. ORNL-TIP/TIRC-72-4. 9P. 2. ORNL-TIP/TIRC-72-46. 5P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUG. 1972
- 188 72 094 MILLIGAN WD
PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH. XIII. THE TRANSURANIUM ELEMENTS: THE MENDELEEV CENTENNIAL CONFERENCE HELD IN HOUSTON, TEXAS, NOV. 17-19, 1969
BOOK, ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970. 507P. CONF-691124. 15 CHAPTERS
- 188 72 095 MIZUSHIMA M
QUANTUM MECHANICS OF ATOMIC SPECTRA AND ATOMIC STRUCTURE
BOOK, W. A. BENJAMIN INC., NEW YORK, 1970. 430P
- 188 72 096 MOORE GE
CHEMISTRY DIVISION
ORNL-4706. ANNUAL PROGRESS REPORT, PERIOD ENDING MAY, 1971. OAK RIDGE NATIONAL LAB., TENN., SEPT. 1971. 277P
- 188 72 097 NEMETHY G
STRUCTURE OF WATER AND THERMODYNAMICS OF AQUEOUS SOLUTIONS
ISS-70/26. ISTITUTO SUPERIORE DI SANITA, ROME, ITALY. LABORATORI DI FISICA. OCT. 1970. 67P
- 188 72 098 NO AUTHOR
A LAND ENVELOPED BY ALARM. "ENVIRONMENTAL POLLUTION UNITED STATES"
AD-760 139. PANAMETRICS INC., WALTHAM, MASS., NOV. 1972. 69P
- 188 72 099 NO AUTHOR
CHEMISTRY AND MATERIALS DIVISION
AECL-3851, PROGRESS REPORT, OCT. 1970 - JAN. 1971, 143P, PR-CMA-15. AECL-3997, PROGRESS REPORT, APRIL - JULY 1971, 105P, PR-CMA-17. ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO. CHALK RIVER NUCLEAR LABS.
- 188 72 100 NO AUTHOR
ANNUAL REPORT, 1970
BMW-FBK-71-12. MAINZ UNIV., WEST GERMANY. INSTITUT FUR ANORGANISCHE CHEMIE UND KERNCHEMIE, OCT. 1971. 131P IN GERMAN
- 188 72 101 NO AUTHOR
SYMPOSIUM ON THE TRANSURANIUM ELEMENTS, LIEGE, BELGIUM, APRIL 21-22, 1969
CONF-690426. INSTITUT INTERUNIVERSITAIRE DES SCIENCES NUCLEAIRES, BRUSSELS, BELGIUM, AND LIEGE UNIV., BELGIUM, AND EUROPEAN ATOMIC ENERGY COMMUNITY EUROPEAN TRANSURANIUM INST., KARLSRUHE, WEST GERMANY, 255P
- 188 72 102 NO AUTHOR
PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS, WARSAW, AUG. 31 - SEPT. 4, 1969
BOOK, POLISH SCIENTIFIC PUBLISHERS, WARSAW, 1969. 1138P. CONF-690834. 145 PAPERS
- 188 72 103 NO AUTHOR
PROCEEDINGS OF THE SEMINAR ON POLLUTION AND HUMAN ENVIRONMENT, AUGUST 26-27, 1970
CONF-700848. BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA. 589P. 36 PAPERS
- 188 72 104 NO AUTHOR
PROCEEDINGS OF THE CHEMISTRY SYMPOSIUM, IIT, MADRAS, NOV. 25-28, 1970. VOLUME 1. PHYSICO-CHEMICAL METHODS IN STRUCTURAL INORGANIC CHEMISTRY. VOLUME 2. RADIATION TECHNOLOGY AND APPLIED NUCLEAR CHEMISTRY
CONF-701148(VOL.1). 336P. CONF-701148(VOL.2). 425P. DEPARTMENT OF ATOMIC ENERGY, BOMBAY, INDIA. CHEMISTRY AND METALLURGY COMMITTEE
- 188 72 105 NO AUTHOR
10TH BIENNIAL CONFERENCE ON CARBON, BETHLEHEM, PENN., JUNE 27 - JULY 2, 1971
CONF-710612. BATTELLE COLUMBUS LABS., OHIO. DEFENSE CERAMIC INFORMATION CENTER. 362P
- 188 72 106 NO AUTHOR
ABSTRACTS OF PAPERS. 1. 162ND NATIONAL MEETING, AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C., SEPT. 12-17, 1971. 2. 163RD NATIONAL MEETING, AMERICAN CHEMICAL SOCIETY, BOSTON, MASS., APRIL 9-14, 1972
BOOKS, AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C. 1. CONF-710913(ABSTS.), 1971. 983P. 2. CONF-720402(ABSTS.), 1972. 403P
- 188 72 107 NO AUTHOR
CERAMIC ENGINEERING, CHEMICAL ENGINEERING, CHEMISTRY, MATHEMATICS AND COMPUTER SCIENCE, METALLURGY, PHYSICS, AND REACTOR DIVISIONS
IS-2600. AMES LAB. USAEC, AMES, IOWA, DEC. 1971. 312P. ANNUAL SUMMARY RESEARCH REPORT, JULY 1970 - JULY 1971
- 188 72 108 NO AUTHOR
LIST OF REPORTS OF THE JUELICH NUCLEAR RESEARCH FACILITY PUBLISHED FROM DEC. 1969 - JAN. 1971
JUL-BIBL-5(SUPPL.1). KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, JULY 1971. 36P IN GERMAN
- 188 72 109 NO AUTHOR
LIST OF SCIENTIFIC PUBLICATIONS OF THE KARLSRUHE NUCLEAR RESEARCH CENTER FOR THE YEAR 1970
KFK-1425. KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, 1971. 43P IN GERMAN
- 188 72 110 NO AUTHOR
ANNUAL REPORT, 1970
MATT-0-28. PRINCETON UNIV., NEW JERSEY. PLASMA PHYSICS LAB., JULY 1971. 139P
- 188 72 111 NO AUTHOR
MOUND LABORATORY CHEMISTRY AND PHYSICS
MLM-1815. PROGRESS REPORT, JAN. - MARCH 1971. NOV. 1971. 28P. MLM-1829. PROGRESS REPORT, APRIL - JUNE 1971. JAN. 1972. 42P. MOUND LAB., MIAMISBURG, OHIO
- 188 72 112 NO AUTHOR
PROGRESS REPORT
NBL-262. PERIOD, JULY 1970 - JUNE 1971. NEW BRUNSWICK LAB. (AEC), NEW JERSEY. JAN. 1972. 85P

- 188 72 113 NO AUTHOR
ANNUAL REPORT, 1969 - 1970
NP-18657. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, MELBOURNE, AUSTRALIA. DIV.
OF CHEMICAL PHYSICS. 52P
- 188 72 114 NO AUTHOR
ANNUAL REPORT, 1968 - 1969
NP-18837. CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, ORSAY, FRANCE. CENTRE DE SPECTROMETRIE
NUCLEAIRES ET DE SPECTROMETRIE DE MASSE. 64P IN FRENCH
- 188 72 115 NO AUTHOR
ANNUAL REPORT, 1970
NP-19053. KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY. 276P IN GERMAN
- 188 72 116 NO AUTHOR
20TH ANNUAL REPORT FOR YEAR ENDING JUNE 30, 1972
NP-19482. AUSTRALIAN ATOMIC ENERGY COMMISSION, AUG. 1972. 155P
- 188 72 117 NO AUTHOR
REPORTS AVAILABLE IN THE ALASKAN INFORMATION PROGRAM
NWO-103. NEVADA OPERATIONS OFFICE, AEC, LAS VEGAS, JUNE 1971. 9P
- 188 72 118 NO AUTHOR
PROGRESS REPORT, ON CHEMISTRY, NOV. 1970 - NOV. 1971
ORO-2835-15. WAKE FOREST UNIV., WINSTON-SALEM, NORTH CAROLINA. 10P
- 188 72 119 NO AUTHOR
ANNUAL REPORT, 1970
OU-LNS-71-2. OSAKA UNIV., JAPAN. LAB. OF NUCLEAR STUDIES. 49P
- 188 72 120 NO AUTHOR
LIST OF UNCLASSIFIED PEL REPORTS, MARCH 1957 - JAN. 1972
PEL-220. ATOMIC ENERGY BOARD, PELINDABA, PRETORIA, SOUTH AFRICA, FEB. 1972. 13P
- 188 72 121 NO AUTHOR
LIST OF BIBLIOGRAPHIES ON NUCLEAR ENERGY
STI/DOC-11(VOL.9)(NO.2). INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA, SEPT. 1971. 22P
- 188 72 122 NO AUTHOR
USAEC TRANSLATION LIST INDEX, 1970 - 1971
TID-4028(SUPPL.1). TECHNICAL INFORMATION CENTER, AEC, OAK RIDGE, TENN., APRIL 1972. 124P
- 188 72 123 NO AUTHOR
ENVIRONMENTAL AND ECOLOGICAL FORUM, 1970 - 1971
TID-25857. ENVIRONMENTAL AND ECOLOGICAL FORUM, ROCKVILLE, MD., 1972. 194P
- 188 72 124 NO AUTHOR
PLASMA PHYSICS INDEX, BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT INDEX
VOL. 6, NO. 4, 149P, 565 REFERENCES. VOL. 6, NO. 5, 120P, 381 REFERENCES. VOL. 6, NO. 6, 155P, 573
REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN, 1971
- 188 72 125 NO AUTHOR
PLASMA PHYSICS INDEX, BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT INDEX
VOL. 6, NO. 7, 148P, 482 REFERENCES. VOL. 6, NO. 8, 152P, 450 REFERENCES. VOL. 6, NO. 9, 137P, 421
REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN, 1971
- 188 72 126 NO AUTHOR
PLASMA PHYSICS INDEX, BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT INDEX
VOL. 6, NO. 10, 166P, 522 REFERENCES. VOL. 6, NO. 11, 180P, 544 REFERENCES. VOL. 6, NO. 12, 172P, 553
REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN, 1971
- 188 72 127 NO AUTHOR
PLASMA PHYSICS INDEX, BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT INDEX
VOL. 7, NO. 1, 144P, 457 REFERENCES. VOL. 7, NO. 2, 150P, 478 REFERENCES. ZENTRALSTELLE FUER
ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN, 1972
- 188 72 128 NO AUTHOR
TECHNOLOGY INDEX FOR PLASMA PHYSICS RESEARCH AND FUSION REACTORS, BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT
INDEX, APPENDIX
VOL. 5, NO. 4, 47P, 247 REFERENCES. VOL. 5, NO. 5, 50P, 256 REFERENCES. VOL. 5, NO. 6, 53P, 278
REFERENCES. VOL. 5, NO. 10, 50P, 280 REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION,
FRANKFURT AM MAIN, 1971
- 188 72 129 NO AUTHOR
ATOMIC ABSORPTION SPECTROSCOPY 1971. PLENARY LECTURES OF 2ND INTERNATIONAL ATOMIC ABSORPTION
SPECTROSCOPY CONFERENCE, SHEFFIELD, ENGLAND, JULY 14-18, 1969
BOOK, BUTTERWORTHS, LONDON, 1970. 152P
- 188 72 130 NO AUTHOR
ENVIRONMENTAL POLLUTION. A GUIDE TO CURRENT RESEARCH
BOOK, CCM INFORMATION CORPORATION, NEW YORK, 1971. 855P
- 188 72 131 OLIVEIRA D
TOXICITY OF HEXACHLOROCYCLOPENTADIENE
ORNL-TIP/IRC-72-58. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., SEPT. 1972. 3P
- 188 72 132 ORDWAY FI
ADVANCES IN SPACE SCIENCE AND TECHNOLOGY, VOLUME 9
BOOK, ACADEMIC PRESS INC., NEW YORK, 1967. 481P
- 188 72 133 PACANSKY J
MATRIX ISOLATION STUDIES OF SMALL MOLECULES
IS-T-484. THESIS, IOWA STATE UNIV., AMES LAB. USAEC, AMES, JAN. 1972. 119P
- 188 72 134 PATAI S
THE CHEMISTRY OF FUNCTIONAL GROUPS
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1970. 927P
- 188 72 135 PERRY M BERKSON M
MUST FOSSIL FUELS POLLUTE
TECHNOL. REV., 74, NO. 2, 34, 1971

- 188 72 136 PFLUGER CE
X-RAY DIFFRACTION. REVIEW
ANAL. CHEM., 44, NO. 5, 563R-72R, 1972. 351 REFERENCES
- 188 72 137 POLAK LS
ELECTROCHEMISTRY IN DISCHARGE PLASMAS
PP 113-91 OF PHENOMENA IN IONIZED GASES, 1971. DAVENPORT, P.A. (ED.), DONALD PARSONS AND CO. LTD.,
OXFORD, 1971. 241 REFERENCES. FROM 10TH INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, SEPT. 13, 1971
- 188 72 138 POLAK LS TEMCHIN AN KHACHOYA AV
RELAXATION IN A REACTING GAS
HIGH TEMP. USSR (ENGL. TRANS.), 9, NO. 2, XXX, 1971
- 188 72 139 POLAK LS
PLASMOCHEMICAL PROCESSES IN OIL CHEMISTRY
VESTN. AKADE. NAUK SSSR, NO. 3, 26, 1972
- 188 72 140 PURDOM PW
ENVIRONMENTAL HEALTH
BOOK, ACADEMIC PRESS, INC., NEW YORK, 1971. 595P. 12 CHAPTERS
- 188 72 141 QUINBY GE
POLYCHLOROBIPHENYLS (PCB'S) AND RELATED CHLOROPHENYLS: EFFECTS ON HEALTH AND ENVIRONMENT. I.
BIBLIOGRAPHY: 1881 - 1971
ORNL-EIS-72-20, OAK RIDGE NATIONAL LAB., TENN., APRIL 1972. 142P
- 188 72 142 ROUCHE N
POSTGRADUATE TRAINING OF SCIENTISTS IN THE EUROPEAN COMMUNITY
EUR-4832, FONDATION INDUSTRIE-UNIVERSITE, BRUSSELS, BELGIUM, 1972. 172P IN FRENCH
- 188 72 143 RUDOLPH AW CARROLL TE DAVIDSON RS
PLUTONIUM AND ITS EFFECTS IN THE ENVIRONMENT. A SELECTIVE LITERATURE SURVEY
TID-26130, BATTTELLE COLUMBUS LABS., OHIO, JUNE 1971. 203P
- 188 72 144 SAALFELD FE
NRL INVESTIGATES SHIPBOARD HAZARDS
NAVAL RES. REV., 24, NO. 12, 16, 1971
- 188 72 145 SAINT PIERRE LE
INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY, TORONTO, SEPT. 3-6, 1968
J. POLYM. SCI., PART C, NO. 30, 1-718, 1970 IN ENGLISH AND FRENCH. CONF-680966. 71 PAPERS
- 188 72 146 SANDARS PGH
ATOMIC PHYSICS 2. PROCEEDINGS OF 2ND INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, JULY 21-24, 1970
BOOK, PLENUM PRESS, LONDON, 1971. 386P. CONF-700724. 24 PAPERS
- 188 72 147 SEABORG GT
1. FROM MENDELEEV TO MENDELEVIVM: AND BEYOND. 2. TWENTYFIFTH ANNIVERSARY OF THE DISCOVERY OF
AMERICIUM AND CURIVM ELEMENTS 95 AND 96: 25 YEARS AGO
1. PP 5-40. 2. PP 223-41. OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL
RESEARCH. XII. THE TRANSURANIUM ELEMENTS. MILLIGAN, W.O. (ED.), ROBERT A. WELCH FOUNDATION,
HOUSTON, TEXAS, 1970. CONF-691124
- 188 72 148 SEABORG GT
RECENT DEVELOPMENTS IN TRANSURANIUM RESEARCH
PP 9-39 OF EUR-4612. FROM SEMINAR ON RADIATION PROTECTION PROBLEMS RELATING TO TRANSURANIUM
ELEMENTS, KARLSRUHE, GERMANY, SEPT. 21, 1970
- 188 72 149 SEABORG GT
NUCLEAR ENERGY AND THE ENVIRONMENT
INT. AT. ENERGY AGENCY BULL., 14, NO. 2, 2-11, 1972
- 188 72 150 SIMON A THOMPSON WB
ADVANCES IN PLASMA PHYSICS. VOLUME 4
BOOK, AN INTERSCIENCE SERIES, JOHN WILEY AND SONS INC., NEW YORK, 1971. 355P. 7 CHAPTERS
- 188 72 151 SMALC A
ANNUAL REPORT, 1970
IJS-P-264, INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, APRIL 1971. 118P IN SLOVENIAN
- 188 72 152 STAFFORD PE
PHYSICAL CHEMISTRY OF HIGHLY ENERGETIC SYSTEMS
COO-1147-42, 3P, NOV. 1971. COO-1147-44, FINAL TECHNICAL REPORT, FEB. 1952 - MAY 1972, 12P, JULY
1972. NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF CHEMISTRY
- 188 72 153 STENGER VA
HEPURT FOR ANALYTICAL CHEMISTS
ANAL. CHEM., 43, NO. 3, 36A, 1971
- 188 72 154 STERN BE LEWIS D
X-RAYS
BOOK, PITMAN PUBLISHING, LONDON, 1971. 313P. 14 CHAPTERS
- 188 72 155 STOCK A CUCUEL F
DISTRIBUTION OF MERCURY
ORNL-TR-2582, TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM NATURWISSENSCHAFTEN, 22, 390-3,
1934, 4P
- 188 72 156 STRANGE W SANDSON M MURPHY J
A LAND ENVELOPED BY ALARM. 'ENVIRONMENTAL POLLUTION UNITED STATES'
N73-20854, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GODDARD SPACE CENTER, MAY 1972. 33P
- 188 72 157 STUBER CE
TRANSPLUTONIUM ELEMENTS. A BIBLIOGRAPHY
TID-3317(SUPPL.3), TECHNICAL INFORMATION CENTER, AEC, OAK RIDGE, TENN., OCT. 1972. 126P
- 188 72 158 SUZUKI H KIMURA S
CARBON MATERIALS
LB-G-3060, TRANSLATED FOR ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, FROM ZAIRYO
KAGAKU, 6, NO. 1, 23, 1969, 27P

- 188 72 159 THOMSON JB
DICTIONARY OF ORGANIC COMPOUNDS
JACS, 94, 690, 1972
- 188 72 160 TOSE M
VAPOR-LIQUID EQUILIBRIUM STILL FOR USE AT 1 MM PRESSURE
A.I.C.H.E. (AMER. INST. CHEM. ENG.) J., 17, 854, 1971
- 188 72 161 VENUGOPALAN M
REACTIONS UNDER PLASMA CONDITIONS, VOLUMES 1 AND 2
BOOKS, JOHN WILEY AND SONS INC., NEW YORK, 1971. VOLUME 1, 607P, 10 CHAPTERS. VOLUME 2, 616P, 10 CHAPTERS
- 188 72 162 VENUGOPALAN M
1. PLASMA STATE, 2. PLASMAS OTHER THAN ELECTRICAL DISCHARGES
1. PP 1-28, 48 REFERENCES. 2. PP 329-65, 112 REFERENCES. OF REACTIONS UNDER PLASMA CONDITIONS.
VOLUME 1. VENUGOPALAN, M. (ED.). JOHN WILEY AND SONS INC., NEW YORK, 1971
- 188 72 163 VENUGOPALAN M
PLASMA CHEMISTRY: AN INTRODUCTION
PP 1-34 OF REACTIONS UNDER PLASMA CONDITIONS. VOLUME 2. VENUGOPALAN, M. (ED.). JOHN WILEY AND SONS INC., NEW YORK, 1971
- 188 72 164 WARREN HS
1. TOXICITY OF POTASSIUM IODATE, 2. DELAYED EFFECTS ON LIFE-SPAN STUDIES, ESPECIALLY CARCINOGENESIS OF CYCLOPHOSPHAMIDE, 3. EFFECT OF TRICHLOROACETONITRILE ON AQUATIC ORGANISMS, 4. EFFECT OF NARCOTICS, NARCOTIC ANTAGONISTS, AND NARCOTIC SUBSTITUTES ON THE MAMMALIAN SYSTEM. 1. GENERAL
1. ORNL-TIP/TIRC-72-10, 2P. 2. ORNL-TIP/TIRC-72-25, 2P. 3. ORNL-TIP/TIRC-72-30, 2P. 4. ORNL-TIP/TIRC-72-31, 13P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972
- 188 72 165 WARREN HS
EFFECTS OF NARCOTICS, NARCOTIC ANTAGONISTS, AND NARCOTIC SUBSTITUTES ON THE MAMMALIAN SYSTEM. 2. CYCLAZOCINE, 4. LEVALLORPHAN, 7. PENTAZOCINE, 8. NALBUPHINE, 9. ALPHA ACETYLMETHADOL
2. ORNL-TIP/TIRC-72-32, 9P. 4. ORNL-TIP/TIRC-72-34, 11P. 7. ORNL-TIP/TIRC-72-37, 15P. 8. ORNL-TIP/TIRC-72-38, 1P. 9. ORNL-TIP/TIRC-72-39, 2P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972
- 188 72 166 WARREN HS
1. AFLATOXINS: THEIR EFFECTS ON MAN AND ANIMALS, 2. TOXICOLOGY OF ISOAMYLAMINE AND RELATED AMINES
1. ORNL-TIP/TIRC-72-18, AUG. 1972, 14P. 2. ORNL-TIP/TIRC-72-61, SEPT. 1972, 6P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN.
- 188 72 167 WARREN HS
1. CARCINOGENICITY OF METHYL-NITRO-NITROSO-GUANIDINE, 2. PHYSIOLOGICAL EFFECTS ON MAN AND/OR ANIMALS OF SULFUR HEXAFLUORIDE IN BREATHING MIXTURE
1. ORNL-TIP/TIRC-72-60, 3P, SEPT. 1972, 2. ORNL-TIP/TIRC-72-72, 4P, OCT. 1972. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN.
- 188 72 168 WESTRUM EF
A GUIDE TO PROCEDURES FOR PUBLICATION OF THERMODYNAMIC DATA
ATOMIC ENERGY REV., 9, 869, 1971
- 188 72 169 ZALEWSKI E KELLER R
A LAND ENVELOPED BY ALARM, 'ENVIRONMENTAL POLLUTION UNITED STATES'
COM-73-50420, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., 1970, 11P
- 188 72 170 ZINGARO RA
CHEMISTRY OF THE METALLOIDS
ORO-2733-25, FINAL REPORT, TEXAS AGRICULTURAL AND MECHANICAL UNIV., COLLEGE STATION, DEPT. OF CHEMISTRY, 11P
- 188 72 171 ZVARA I
CHEMICAL SEPARATION OF KURCHATOVIIUM
INORG. NUCL. CHEM. LTRS, 7, 1109, 1971
- 200 72 001 AHRENS LH
CHEMICAL LINKS BETWEEN STONY METEORITES AND THE LUNAR SURFACE
COMMENTS EARTH SCI., GEOPHYS., 2, 22, 1971
- 200 72 002 AIZU K HAYAKAWA S SATO H
ASTROPHYSICAL COSMOLOGY
SUPPL. PROG. THEOR. PHYS., NO. 49, 1, 1971
- 200 72 003 ALEXANDER EC LEWIS RS REYNOLDS JH MICHEL MC
PU(244): CONFIRMATION AS AN EXTINGUISHED RADIOACTIVITY
SCIENCE, 172, 837, 1971
- 200 72 004 ALLER LH
CHEMICAL COMPOSITION OF COSMIC RAYS, 2.
SKY TELESC., 43, 362, 1972
- 200 72 005 AMUNDSEN R
COMPENDIUM OF COSMIC PHYSICS, NO. 5
NP-19229, BERGEN UNIV., NORWAY, DEPT. OF PHYSICS, NOV. 1970, 145P IN NORWEGIAN
- 200 72 006 ANDERS E LAUL JC KEAYS RR GANAPATHY R MORGAN JW
ELEMENTS DEPLETED ON LUNAR SURFACE: IMPLICATIONS FOR ORIGIN OF MOON AND METEORITE INFLUX RATE
COO-382-109, CHICAGO UNIV., ILL. ENRICO FERMI INST. DEPT. OF PHYSICS, 1970, 10P. CONF-710102-3, FROM 2ND ANNUAL LUNAR SCIENCE CONFERENCE, HOUSTON, TEXAS, JAN. 1971
- 200 72 007 ANDERS E
1. METEORITES AND THE EARLY SOLAR SYSTEM, 2. CONDITIONS IN THE EARLY SOLAR SYSTEM, AS INFERRED FROM METEORITES
1. ANNU. REV. ASTRON. ASTROPHYS., 9, 1-34, 1971, 2. N71-38570, UNIV. OF CHICAGO, ILL., 1971
- 200 72 008 ANDERS E
HOW WELL DO WE KNOW COSMIC ABUNDANCES
GEOCHIM. COSMOCHEM. ACTA, 35, 516, 1971

- 200 72 009 ANDERS E LARIMER JW
EXTINCT SUPERHEAVY ELEMENT IN METEORITES: ATTEMPTED CHARACTERIZATION
SCIENCE, 175, 981, 1972
- 200 72 010 ASHTON F COATS RB KING J TSUJI K WOLFENDALE AW
SEARCH FOR QUARKS USING A FLASH TUBE CHAMBER
J. PHYS. A, 4, 895, 1971
- 200 72 011 BARASHENKOV VS SOBOLEVSKII NM TONEEV VD
ACCUMULATION OF COSMOGENIC ISOTOPES IN IRON METEORITES
JINR-P2-6225, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, 1972, 14P IN RUSSIAN, ORNL-TR-2620,
TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., 9P
- 200 72 012 BARRETT AH
NEW COMPLEXITIES FOR THE COSMIC CHEMIST
COMMENTS AT. MQL. PHYS., 11, NO. 6, 165, 1971, 12 REFERENCES
- 200 72 013 BAXTER M FUNKHOUSER J
RARE GASES IN THE LOST CITY AND SUCHY DUL METEORITES
J. GEOPHYS. RES., 76, 4056, 1971
- 200 72 014 BEAUCHAMP WT
SEARCH FOR 4E/3 CHARGED QUARKS IN THE COSMIC RADIATION AT 2750 METERS
THIS IS, UNIV. OF ARIZONA, TUCSON, 1971, 65P, UNIV. MICROFILMS ORDER NO. 71-18,116
- 200 72 015 BEGEMANN F
AR(37)/AR(39) ACTIVITY RATIOS IN METEORITES AND THE SPATIAL CONSTANCY OF THE COSMIC RADIATION
J. GEOPHYS. RES., 77, 3650, 1972
- 200 72 016 BHANDARI N
ORBITAL VELOCITIES OF SOME STONE METEORITES
PP 327-31 OF PROCEEDINGS OF THE 11TH SYMPOSIUM ON COSMIC RAYS, ASTROPHYSICS, GEOPHYSICS, AND
ELEMENTARY PARTICLE PHYSICS, 1969, VOLUME 2, DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1969,
CONF-691055(VOL.2)
- 200 72 017 BHANDARI N
DID SUPERHEAVY NUCLEI EXIST IN OUR SOLAR SYSTEM
PP 23-5 OF INDC-7-U, FROM 4TH MEETING ON NEUTRON INDUCED FISSION, BOMBAY, INDIA, JULY 14, 1971
- 200 72 018 BHANDARI N
FOSSIL TRACKS IN THE METEORITE ANGRA DQS REIS: A PREDOMINANTLY FISSION ORIGIN
NATURE, 234, 540, 1971
- 200 72 019 BILBOT R GAUVIN H
SPALLATION REACTIONS PRODUCED BY 50, 100, AND 153 MEV PROTONS WITH LIGHT NUCLEI
COMPT. REND., SER. B, 273, 1054, 1971 IN FRENCH
- 200 72 020 BLACK DC
ORIGINS OF TRAPPED HELIUM, NEON, AND ARGON ISOTOPIC VARIATIONS IN METEORITES. 1. GAS-RICH
METEORITES, LUNAR SOIL, AND BRECCIA. 2. CARBONACEOUS METEORITES
GEOCHIM. COSMOCHIM. ACTA, 36, 347 AND 377, 1972
- 200 72 021 BOECKL R
TERRESTRIAL AGE OF NINETEEN STONY METEORITES DERIVED FROM THEIR RADIOCARBON CONTENT
NATURE, 236, 25, 1972
- 200 72 022 BOEHM A DIEMONT W FAISSNER H FASOLO HG KRISOR K
MAULL K SAWAF Z UMBACH H
1. SEARCH FOR PARTICLES WITH PARTIAL CHARGE IN SHOWERS. 2. SEARCH FOR QUARKS IN HIGH ENERGY AIR
SHOWERS
1. PITHA-48, 15P, MARCH 1971, IN GERMAN. 2. PITHA-54, 17P, NOV. 1971, TECHNISCHE HOCHSCHULE, AACHEN,
WEST GERMANY, PHYSIKALISCHES INSTITUT (ITI)
- 200 72 023 EDGARD DD CLARK RS KEITH JE REYNOLDS MA
NOBLE GASES AND RADIONUCLIDES IN LOST CITY AND OTHER RECENTLY FALLEN METEORITES
J. GEOPHYS. RES., 76, 4076, 1971
- 200 72 024 BOGARD DD HUNEKE JC BURNETT DS WASSERBURG GJ
XF AND KB ANALYSES OF SILICATE INCLUSIONS FROM IRON METEORITES
GEOCHIM. COSMOCHIM. ACTA, 35, 1231, 1971
- 200 72 025 BRANDT SB VOLKOVA NV
DIFFUSION LOSSES OF RADIOGENIC ARGON FROM METEORITES
GEOKHIMIYA, P1012, 1971 IN RUSSIAN
- 200 72 026 BRIGGS MH
CHEMICAL COMPOSITION OF THE SOLAR SYSTEM
ADVAN. SPACE SCI. TECHNOL., 9, 197-274, 1967
- 200 72 027 BRODZINSKI RL RANCITELLI LA COOPER JA WOGMAN NA
HIGH ENERGY PROTON SPALLATION OF 1. TITANIUM, 2. IRON
PHYS. REV., 4C, 1250 AND 1257, 1971
- 200 72 028 BUEHLER F EBERHARDT P GEISS J SCHWARZMUELLER J
TRAPPED SOLAR WIND HELIUM AND NEON IN SURVEYOR 3 MATERIAL
EARTH PLANET. SCI. LTRS, 10, 297, 1971
- 200 72 029 CARTWRIGHT BG
ORIGIN OF FLUORINE, SODIUM, AND ALUMINUM IN THE GALACTIC COSMIC RADIATION
ASTROPHYS. J., 169, 299, 1971
- 200 72 030 CATALA DE ALEMANY J
PRIMARY COSMIC RADIATION
ENERG. NUCL. (MADRID), 15, NO. 71, 209, 1971 IN SPANISH
- 200 72 031 CHAPKUND SK
ON OPTIMIZATION OF AMPLIFYING PATH OF ION TRAPPERS IN NONORIENTED COSMIC APPARATUS
DOKL. BULG. AKAU. NAUK., 24, 1533, 1971

- 200 72 032 CHECHETKIN VM
NUCLEOSYNTHESIS OF REMOTE TRANSURANIUM ELEMENTS
SOV. ASTRON. AJ (ENGL. TRANS.), 15, 45, 1971. TRANSLATED FROM ASTRON. Zh., 48, 59, 1971
- 200 72 033 CHENG ASC
GAS PROPORTIONAL COUNTING OF CL(36) IN IRON TARGETS AND IRON METEORITES
NP-19446. THESIS. STATE UNIV. OF NEW YORK, STONY BROOK, JULY 1972. 105P
- 200 72 034 CLARKE RS JAROSEWICH E NELEN J
LOST CITY, OKLAHOMA METEORITE: AN INTRODUCTION TO ITS LABORATORY INVESTIGATION AND COMPARISONS WITH
PRIBRAM AND UCERA
J. GEOPHYS. RES., 76, 4135, 1971
- 200 72 035 COMSTOCK GM HSIEN KC SIMPSON JA
COSMIC RAY SOURCE AND LOCAL INTERSTELLAR SPECTRA DEDUCED FROM ISOTOPES OF HYDROGEN AND HELIUM
ASTROPHYS. J., 173, 691, 1972
- 200 72 036 COMSIK R PRICE PB
ORIGINS OF COSMIC RAYS
PHYS. TODAY, 24, NO. 10, 30, 1971
- 200 72 037 CRESSY PJ
COSMOGENIC RADIONUCLIDES IN THE LOST CITY AND UCERA-METEORITES
J. GEOPHYS. RES., 76, 4072, 1971
- 200 72 038 CRESSY PJ
PRODUCTION RATE OF AL(26) FROM TARGET ELEMENTS IN THE BRUDERHEIM CHONDRITE
GEOCHIM. COSMOCHIM. ACTA, 35, 1283, 1971
- 200 72 039 CROCKET JH
SOME ASPECTS OF THE GEOCHEMISTRY OF RU, OS, IR, AND PT IN IRON METEORITES
GEOCHIM. COSMOCHIM. ACTA, 36, 517, 1972
- 200 72 040 CROZAZ G HAIR M MAURETTE M WALKER R
NUCLEAR INTERACTION TRACKS IN MINERALS AND THEIR IMPLICATIONS FOR EXTRATERRESTRIAL MATERIALS
PP VII, 41-54 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN
INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969. VOL. 2.
ISABELLE, D. (ED.), UNIVERSITE DE CLERMONT-FERRAND, 1969. CONF-690522(VOL.2), AND N71-26344.
WASHINGTON UNIV., ST. LOUIS, MO. LAB. FOR SPACE PHYSICS, MAY 1969. 19P
- 200 72 041 DAKOWSKI M
IMPLICATIONS OF THE HYPOTHESIS OF EXTINGUISHED FISSIONING ISOTOPE IN THE PRIMITIVE METEORITES
PHYS. LETT., 35B, 557, 1971. JINR-E15-5800 JOINT INST. FOR NUCLEAR RESEARCH, MOSCOW
- 200 72 042 DE BOER KS OLTHOF M POTTASCH SR
ABUNDANCES IN THE SOLAR CORONA
ASTRON. ASTROPHYS., 16, 417, 1972
- 200 72 043 EHMANN WD GILLUM DE
PLATINUM AND GOLD IN CHONDRITIC METEORITES
CHEM. GEOL., 9, 1, 1972
- 200 72 044 EVANS JC
STUDY OF SOLAR FLARE HISTORY BY MEASUREMENT OF NA(22) AND AL(26) PRODUCTION PROFILES IN LUNAR ROCKS
THESIS. UNIV. OF CALIFORNIA, SAN DIEGO, 1971. 147P. UNIV. MICROFILMS ORDER NO. 71-17,679
- 200 72 045 FICHEL CE
SOLAR COSMIC RAYS
PHIL. TRANS. ROY. SOC. LONDON, SER. A, 270, NO. 1202, 167, 1971
- 200 72 046 FIREMAN EL SPANNAGEL G
RADIAL GRADIENT OF COSMIC RAYS FROM THE LOST CITY METEORITE
J. GEOPHYS. RES., 76, 4127, 1971
- 200 72 047 FOLSONE CE
HETEROCYCLIC COMPOUNDS INDIGENOUS TO THE MURCHISON METEORITE
NATURE, 232, 108, 1971
- 200 72 048 FORMAN MA STOENNER RW DAVIS R
COSMIC RAY GRADIENT MEASURED BY THE AR(37)/AR(39) RATIO IN THE LOST CITY METEORITE
J. GEOPHYS. RES., 76, 4109, 1971
- 200 72 049 FORMISANO V MORENO G
HELIUM AND HEAVY IONS IN THE SOLAR WIND
RIV. NUOVO CIM., 1, NO. 3, 365-422, 1971
- 200 72 050 FRAUTSCHI S STEIGMAN G BANCALL J
QUARKS AS A THERMOMETER FOR COSMOLOGIES
ASTROPHYS. J., 175, 307, 1972
- 200 72 051 FRUCHTER JS
MEASUREMENT OF MN(53,54) PROFILES IN LUNAR ROCKS AND METEORITES
THESIS. UNIV. OF CALIFORNIA, SAN DIEGO, 1971. 177P. UNIV. MICROFILMS ORDER NO. 72-6523
- 200 72 052 GIBSON EK MOORE CB
DISTRIBUTION OF TOTAL NITROGEN IN IRON METEORITES
GEOCHIM. COSMOCHIM. ACTA, 35, 877, 1971
- 200 72 053 GILLUM DE EHMANN WD
NOBLE METAL DETERMINATION IN METEORITES
RADIOCHIM. ACTA, 16, 123, 1971
- 200 72 054 GOLDBERG L
ANNUAL REVIEW OF ASTRONOMY AND ASTROPHYSICS, VOLUME 9
BOOK. ANNUAL REVIEWS INC., PALO ALTO, CALIF., 1971. 401P. 13 CHAPTERS
- 200 72 055 GOLDSTEI JI DOAN AS
EFFECT OF PHOSPHORUS ON FORMATION OF WIDMANSTATTEN PATTERN IN IRON METEORITES
GEOCHIM. COSMOCHIM. ACTA, 36, 51, 1972

- 200 72 056 GOPALAN K WETHERILL GW
RUBIDIUM-STRONTIUM STUDIES ON BLACK HYPERSTHENE CHONDRITES: EFFECTS OF SHOCK AND REHEATING
J. GEOPHYS. RES., 76, 8484, 1971
- 200 72 057 GRASS F KITTL R
QUANTITATIVE DETERMINATION OF RARE EARTHS IN METEORITES BY MEANS OF HIGH VOLTAGE ELECTROPHORESIS
MIKROCHIM. ACTA, P371, 1971 IN GERMAN
- 200 72 058 GREVESSE N
STUDIES OF THE ABUNDANCE OF ELEMENTS IN THE ATMOSPHERE OF A MAIN SEQUENCE G2-V STAR: THE SUN
ACAD. ROY. BELG., CL. SCI., MEM., COLLECT. 8, 39, NO. 3, 1-106, 1969 IN FRENCH
- 200 72 059 HAUGE O ENGVOLD O
CHEMICAL COMPOSITION OF THE SOLAR ATMOSPHERE
NP-18857, REPORT NO. 31, OSLO UNIV., NORWAY, INSTITUTT FOR TEORETISK ASTROFYSIKK, 1970, 29P
- 200 72 060 HAYAKAWA S MATSUMOTO T
ORIGIN OF ELEMENTS IN THE SOLAR SYSTEM
PP 591-3 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970, FROM CONFERENCE HELD IN KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 061 HAYASHI C
EARLY STAGE OF THE SUN
PP 588-90 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970, FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 062 HAYATSU R STUDIER MH ANDERS E MATSUOKA S
ORIGIN OF ORGANIC MATTER IN EARLY SOLAR SYSTEM. 4. AMINO ACIDS: CONFIRMATION OF CATALYTIC SYNTHESIS
BY MASS SPECTROMETRY, 6. CATALYTIC SYNTHESIS OF NITRILES, NITROGEN BASES AND PROPPHYRIN LIKE
PIGMENTS
GEOCHIM. COSMOCHIM. ACTA, 35, 939, 1971 AND 36, 555, 1972
- 200 72 063 HEBARD AF
SEARCH FOR FRACTIONAL CHARGE USING LOW TEMPERATURE TECHNIQUES
THESIS, STANFORD UNIV., CALIFORNIA, 1971, 150P, UNIV. MICROFILMS ORDER NO. 71-19,698
- 200 72 064 HINTENBERGER H
MASS SPECTROSCOPIC RESEARCHES IN NUCLEAR PHYSICS AND ISOTOPE COSMOLOGY
PP 3-25 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970, FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 065 HOWARD WM ARNETT WD CLAYTON DD WOODSLEY SE
THERMONUCLEAR ORIGIN OF RARE NEUTRON RICH ISOTOPES
PHYS. REV. LETT., 27, 1607, 1971
- 200 72 066 HOWARD WM ARNETT WD CLAYTON DD WOODSLEY SE
NUCLEOSYNTHESIS OF RARE NUCLEI FROM SEED NUCLEI IN EXPLOSIVE CARBON BURNING
ASTROPHYS. J., 175, 201, 1972
- 200 72 067 IMAMURA M SHIMA M HONDA M
DISTRIBUTION OF SOME STABLE AND LONG LIVED NUCLIDES PRODUCED BY COSMIC RAYS IN THE IRON METEORITE
GRANT
PP 647-51 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970, FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 068 KASHKAROV LL GENAEVA LI MALISHEV VV SATAROVA LM LAVRUKHINA AK

INVESTIGATION OF COSMIC RAY INDUCED TRACKS IN METEORITIC MINERALS
ACTA PHYS. ACAD. SCI. HUNG., 29, SUPPL. 1, 449, 1970, FROM 11TH INTERNATIONAL CONFERENCE ON COSMIC
RAYS, BUDAPEST, HUNGARY, AUG. 25, 1969
- 200 72 069 KIESL W GRASS F BOECKL R PCNTA U
COSMOCHEMICAL ABUNDANCES OF TRACE ELEMENTS IN METEORITES. 1. DETERMINATION OF SE, TE, TL, SR, BA,
AND TA IN CHONDRITES
J. RADIOANAL. CHEM., 6, 447, 1970
- 200 72 070 KING EA CARMAN MF GUTLER JC
CHONDRULES IN APOLLO 14 SAMPLES: IMPLICATIONS FOR THE ORIGIN OF CHONDRITIC METEORITES
SCIENCE, 175, 59, 1972
- 200 72 071 KIRSTEN TA SCHAEFFER OA
HIGH ENERGY INTERACTIONS IN SPACE
PP 75-157 OF ELEMENTARY PARTICLES, SCIENCE, TECHNOLOGY, AND SOCIETY, YUAN, LUKE C.L. (ED.), ACADEMIC
PRESS INC., NEW YORK, 1971
- 200 72 072 KOLESNIKOV EM LAVRUKHINA AK FISENKO AV
RADIATION AGES OF DIFFERENT FRAGMENTS OF THE SIKHOTE-LIN METEORITE FALL
GEOCHIM. COSMOCHIM. ACTA, 36, 573, 1972
- 200 72 073 KOPAL Z
ADVANCES IN ASTRONOMY AND ASTROPHYSICS, VOLUME 7
BOOK, ACADEMIC PRESS INC., NEW YORK, 1970, 303P, 5 CHAPTERS
- 200 72 074 KOROBEINIKOV VP CHUSHKIN PI SHURSHALOV LV
GAS DYNAMICS OF THE FLIGHT AND EXPLOSION OF METEORITE BODIES IN THE EARTH'S ATMOSPHERE
ICRL-TRANS-10572, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM 3RD
INTERNATIONAL COLLOQUIUM OF THE GAS DYNAMICS OF EXPLOSIONS, MARSEILLE, FRANCE, SEPT. 12, 1971,
30P, CONF-710918-2
- 200 72 075 KUCHARCZ B
NUCLEAR AND RELATIVISTIC ASTROPHYSICS AND NUCLIDIC COSMOCHEMISTRY: 1963 - 1967, VOLUME 4
NEIC-RR-45, NUCLEAR ENERGY INFORMATION CENTER, WARSAW, POLAND, 1971, 209P, AUTHOR INDEX FOR
NEIC-RR-34, -37, AND -38
- 200 72 076 KUCHARCZ B
BEGINNINGS OF ORGANIC COSMOCHEMISTRY
POSTĘPY ASTRON., 19, 299, 1971 IN POLISH
- 200 72 077 KUCHARCZ B
PROBLEMS AND ACHIEVEMENTS OF NUCLEAR ASTROPHYSICS. 1. NUCLIDIC ABUNDANCES AND COSMIC SYNTHESIS
POSTĘPY FIZ., 22, 495, 1971 IN POLISH

- 200 72 078 KUMAR SS
FORMATION OF THE SOLAR SYSTEM
NATURE, 233, 473, 1971
- 200 72 079 KURODA PK
NUCLEAR AND COSMOCHEMISTRY
ORD-3235-75, FINAL REPORT, MAY 1964 - NOV. 1971, ARKANSAS UNIV., FAYETTEVILLE, 5P
- 200 72 080 LAMAY L MASEK GE MAUNG T
DESIGN AND PERFORMANCE OF A TEV ENERGY COSMIC RAY SPECTROMETER
NUCL. INSTRUM. METHODS, 99, 547, 1972, 11 FIGURES, 5 TABLES
- 200 72 081 LAUL JC KEAYS RR GANAPATHY R ANDERS E MORGAN JW
CHEMICAL FRACTIONATIONS IN METEORITES. 5. VOLATILE AND SIDEROPHILE ELEMENTS IN ACHONDRITES AND OCEAN
RIDGE BASALTS
GEOCHIM. COSMOCHEM. ACTA, 36, 329, 1972
- 200 72 082 LAUMER HW
PROTON INDUCED REACTIONS ON N(14) AND O(16) AND THE CREATION OF ELEMENTS LITHIUM, BERYLLIUM, AND
BORON
THESIS, MICHIGAN STATE UNIV., EAST LANSING, 1971, 220P. UNIV. MICROFILMS ORDER NO. 72-16,463
- 200 72 083 LAVRUKHINA AK
NUCLEAR REACTION IN THE NUCLEOGENESIS OF XENON ISOTOPES IN SOLAR SYSTEM MATTER
METEORITIKA, NO. 29, 9-29, 1969 IN RUSSIAN
- 200 72 084 LAVRUKHINA AK USTINOVA GK
SOLAR PROTON MEDIUM FLUX CONSTANCY OVER A MILLION YEARS
NATURE, 232, 462, 1971
- 200 72 085 LAVRUKHINA AK
REGION OF EFFECTIVE 11-YEAR MODULATION OF GALACTIC COSMIC RAYS (ACCORDING TO METEORITE DATA)
IZV. AKADE. NAUK SSSR, SER. FIZ., 35, 2498, 1971 IN RUSSIAN
- 200 72 086 LAVRUKHINA AK SAZHINA NK CHAIKA M
1. NI, CO, AL AND MN DISTRIBUTION IN METAL AND SULFIDE PHASES OF METEORITES. 2. NI AND CO CONTENT IN
METAL INCLUSIONS OF CHONDRITES
GEOKHIMIYA, NO. 12, XXX, 1971 AND NO. 3, 344, 1972
- 200 72 087 LAVRUKHINA AK
METEORITES ARE INTERPLANETARY PROBES
N72-21862, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151,
1972
- 200 72 088 LAVRUKHINA AK USTINOVA GK
ISOTROPIC CRITERION OF EXTENT OF METEORITE ORBITS
DOKL. AKADE. NAUK SSSR, 204, 316, 1972
- 200 72 089 LEVSKII LK
COSMOGENIC ISOTOPES IN 42 FRAGMENTS OF THE SIKHOTE-LIN METEORITE
GEOKHIMIYA, P932, 1971 IN RUSSIAN
- 200 72 090 LOWREY BE
ORBITAL EVOLUTION OF LOST CITY METEORITE
J. GEOPHYS. RES., 76, 4084, 1971
- 200 72 091 MALISSA H HERMANN F KLUGER F KIESL W
CHEMICAL AND MICROPROBE INVESTIGATIONS OF THE ALLENDE METEORITE
MIKROCHIM. ACTA, P434, 1972
- 200 72 092 MARTI K LIGHTNER BD
RARE GAS RECORD IN THE LARGEST APOLLO 15 ROCK
SCIENCE, 175, 421, 1972, 6 REFERENCES
- 200 72 093 MARTI K WILKENING LL SUESS HE
SOLAR RARE GASES AND THE ABUNDANCES OF THE ELEMENTS
ASTROPHYS. J., 173, 445, 1972
- 200 72 094 MARTIN JR NANCE WB JOHNSON PH
CHEMICAL AND MINERAL COMPOSITION OF THE LOST CITY METEORITE
J. GEOPHYS. RES., 76, 4121, 1971
- 200 72 095 MCCROSKY RE POSEN A SCHWARTZ G SHAO CY
LOST CITY METEORITE: ITS RECOVERY AND A COMPARISON WITH OTHER FIREBALLS
J. GEOPHYS. RES., 76, 4090, 1971
- 200 72 096 MENEGUZZI M AUDOUZE J REEVES H
PRODUCTION OF THE ELEMENTS LI, BE, AND B BY GALACTIC COSMIC RAYS IN SPACE AND ITS RELATION WITH
STELLAR OBSERVATIONS
ASTRON. ASTROPHYS., 15, 337, 1971
- 200 72 097 MORPURGO G
PRESENT STATUS OF THE SEARCH FOR QUARKS
PP 640-52 OF SUBNUCLEAR PHENOMENA. PART B. ZICHICHI A. (ED.), ACADEMIC PRESS INC., NEW YORK, 1970
- 200 72 098 MUENOW DW STECK SJ MARGRAVE JL
MASS SPECTROMETRIC EVIDENCE FOR ORGANIC CONSTITUENTS IN TEKTITES (METEORITES)
GEOCHIM. COSMOCHEM. ACTA, 35, 1047, 1971
- 200 72 099 MURCRAE DG
NONSTELLAR CELESTIAL BACKGROUNDS. (MASS SPECTROSCOPY, EMISSION SPECTRUM)
AD-733 708, DENVER UNIV., COLORADO, DEPT. OF PHYSICS, 100P
- 200 72 100 NAVA DF WALTER LS DOAN AS
CHEMISTRY AND MINERALOGY OF THE LOST CITY METEORITE
J. GEOPHYS. RES., 76, 4067, 1971
- 200 72 101 NESS NF
INTERACTION OF THE SOLAR WIND WITH THE MOON
ASTROPHYS. SPACE SCI. LIBR., 29, PT. II, 159-205, 1972, FROM INTERNATIONAL SYMPOSIUM ON
SOLAR-TERRESTRIAL PHYSICS, LENINGRAD, USSR, MAY 12, 1970, 65 REFERENCES

- 200 72 102 NO AUTHOR
PROCEEDINGS OF THE 6TH INTERAMERICAN SEMINAR ON COSMIC RAYS, LA PAZ, BOLIVIA, JULY 19-24, 1970. VOL. 1. CUADERNO NO. 38. VOL. 2. CUADERNO 39. VOL. 3. CUADERNO 40. AND VOL. 4. CUADERNO 41 BOOKS. UNIVERSIDAD MAYOR DE SAN ANDRES, LA PAZ, 1970. IN SPANISH AND ENGLISH. CONF-700708(VOL.1). 303P. 23 PAPERS. (VOL.2). 268P. 17 PAPERS. (VOL.3). 309P. 19 PAPERS. (VOL.4). 223P. 12 PAPERS
- 200 72 103 NO AUTHOR
12TH INTERNATIONAL CONFERENCE ON COSMIC RAYS, HOBART, AUSTRALIA, AUGUST 16-25, 1971. VOLUMES 1, 3, 4, 5, AND 6
BOOKS, INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS, HOBART, AUSTRALIA, 1971. CONF-710807(VOL.1). 436P. 120 PAPERS. (VOL.3). 424P. 139 PAPERS. (VOL.4). 392P. 115 PAPERS. (VOL.5). 394P. 51 PAPERS. (VOL.6). 467P. 47 PAPERS
- 200 72 104 NO AUTHOR
NUCLEAR AND COSMOCHEMISTRY
ORD-3235-72. ANNUAL PROGRESS REPORT. ARKANSAS UNIV., FAYETTEVILLE, DEPT. OF CHEMISTRY, JULY 1971. 25P
- 200 72 105 NYQUIST LE HUNEKE JC. FUNK H
THERMAL RELEASE CHARACTERISTICS OF SPALLOGENIC HE, NE AND AR FROM CARBO IRON METEORITE
EARTH PLANET. SCI. LTRS. 14. 207. 1972
- 200 72 106 O'BRIEN K
COMPOSITION OF ATMOSPHERIC COSMIC RAYS NEAR SOLAR MAXIMUM
TRANS. AMER. NUCL. SOC., 14. 68. 1971. FROM 17TH ANNUAL MEETING, BOSTON, MASS., JUNE 13, 1971.
CONF-710606
- 200 72 107 OGILVIE KW ZWALLY HJ
HYDROGEN AND HELIUM VELOCITIES IN THE SOLAR WIND
N71-38548. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 200 72 108 OHNISHI T
NUCLEOSYNTHESIS OF SUPERHEAVY ELEMENTS IN THE UNIVERSE
PROGR. THEOR. PHYS. (KYOTO), 47. 845. 1972. 37 REFERENCES
- 200 72 109 OSBORN TW
ELEMENTAL ABUNDANCES IN METEORITIC CHONDRULES
THESIS. OREGON STATE UNIV., CORVALLIS, 1972. 368P. UNIV. MICROFILMS ORDER NO. 72-9820
- 200 72 110 PEEBLES PJE
PHYSICAL COSMOLOGY
BOOK, PRINCETON SERIES IN PHYSICS, PRINCETON UNIVERSITY PRESS, PRINCETON, NEW JERSEY, 1971. 295P
- 200 72 111 PODOSEK FA HUNEKE JC
ISOTOPIC COMPOSITION OF PU(244) FISSION XENON IN METEORITES: REEVALUATION USING LUNAR SPALLATION
XENON SYSTEMATICS
EARTH PLANET. SCI. LTRS. 12. 73. 1971
- 200 72 112 PODOSEK FA
GAS RETENTION CHRONOLOGY OF PETERSBURG AND OTHER METEORITES
GEOCHIM. COSMOCHIM. ACTA. 36. 755. 1972
- 200 72 113 PONNAMPE C
ORGANIC COMPOUNDS IN MURCHISON METEORITE
ANN. N.Y. ACAD. SCI., 194. 56. 1972
- 200 72 114 POUPEAU G PELLAS P LORIN JC
DISCOVERY OF AN EARLY IRRADIATION OF METEORITE CRYSTALS USING SCANNING ELECTRON MICROSCOPY
PP VII.26-40 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN
INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969. VOL. 2.
ISABELLE, D. (ED.). UNIVERSITE DE CLERMONT-FERRAND, 1969. IN FRENCH. CONF-690522(VOL.2)
- 200 72 115 POUPEAU G BERGOT JL
OLD AND RECENT IRRADIATIONS OF AUDRITES
EARTH PLANET. SCI. LTRS. 14. 381. 1972 IN FRENCH
- 200 72 116 PREDMORE CR GOLDWIRE HC WALTERS GK
LIMITING HE(3) ABUNDANCES IN FOUR H-II REGIONS
ASTROPHYS. J., 168. NO. 3. L125. 1971
- 200 72 117 RAJAN RS
ULTRAHEAVY NUCLEI IN COSMIC RAYS FROM METEORITE STUDIES
PP 304-5 OF PROCEEDINGS OF THE 11TH SYMPOSIUM ON COSMIC RAYS, ASTROPHYSICS, GEOPHYSICS, AND
ELEMENTARY PARTICLE PHYSICS, 1969. VOL. II. DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1969.
CONF-691055(VOL.2). FROM MEETING HELD AT DELHI, INDIA, OCT. 7, 1969
- 200 72 118 REEDY RC ARNOLD JR
INTERACTION OF SOLAR AND GALACTIC COSMIC RAY PARTICLES WITH THE MOON
J. GEOPHYS. RES., 77. 537. 1972. 38 REFERENCES
- 200 72 119 REEVES H
RECENT DEVELOPMENTS IN THE HISTORY OF THE NUCLEOSYNTHESIS OF THE SOLAR SYSTEM
PP 237-40 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY, BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. CONF-700968. FROM MEETING HELD AT KJELLER, NORWAY, SEPT. 7, 1970
- 200 72 120 REYNOLDS JH
XENON PROBLEMS IN METEORITES. A REVIEW
PP 594-507 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, 1970. FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 121 RIZZI AW
SOLAR WIND FLOW PAST THE PLANETS EARTH, MARS, AND VENUS
THESIS. STANFORD UNIV., STANFORD, CALIF., 1971. 211P. UNIVERSITY MICROFILMS ORDER NO. 72-5982.
- 200 72 122 ROSEN S
SELECTED PAPERS ON COSMIC RAY ORIGIN THEORIES
BOOK, DOVER PUBLICATIONS INC., NEW YORK, 1969. 446P

- 200 72 123 ROWE MV CLARK RS
ESTIMATION OF ERROR IN THE DETERMINATION OF AL(26) IN STONE METEORITES BY INDIRECT GAMMA RAY
SPECTROMETRY
GEOCHIM. COSMOCHIM. ACTA, 35, 727, 1971
- 200 72 124 SANTOLUQUIDO PM EHMANN WD
BISMUTH IN STONY METEORITES AND STANDARD ROCKS
GEOCHIM. COSMOCHIM. ACTA, 36, 897, 1972
- 200 72 125 SCHNETZLER CC BOTTINO ML
SOME ALKALI, ALKALINE EARTH, AND RARE EARTH ELEMENT CONCENTRATIONS AND THE Rb-Sr AGE OF THE LOST
CITY METEORITE AND SEPARATED PHASES
J. GEOPHYS. RES., 76, 4061, 1971
- 200 72 126 SCHRAMM DN FOWLER WA
1. SYNTHESIS OF SUPERHEAVY ELEMENTS IN THE R-PROCESS. 2. IMPLIED SUPERHEAVY ELEMENT DECAY LIFE-TIME
FROM METEORITES
NATURE, 231, 103, 1971 AND 233, 258, 1971
- 200 72 127 SCHRAMM DN
NUCLEOSYNTHESIS OF AL(26) IN THE EARLY SOLAR SYSTEM AND IN COSMIC RAYS
ASTROPHYS. SPACE SCI., 13, 249, 1971
- 200 72 128 SCHULTZ L SIGNER P PELLAS P POUPEAU G
ASSAM: A GAS RICH HYPERSTHENE CHONDRITE
EARTH PLANET. SCI. LTRS, 12, 119, 1971
- 200 72 129 SEITZ M WITTELS MC MAURETTE M WALKER RM HECKMAN M
ACCELERATOR IRRADIATIONS OF MINERALS: IMPLICATIONS FOR TRACK FORMATION MECHANISMS AND FOR STUDIES OF
LUNAR AND METEORITIC MATERIALS
PP VII-55-67 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN
INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969, VOL. 2,
ISABELLE D. (ED.), UNIVERSITE DE CLERMONT-FERRAND, 1969, CONF-690522(VOL.2)
- 200 72 130 SEITZ MG
HEAVY ION RADIATION STUDIES IN TERRESTRIAL AND EXTRATERRESTRIAL MATERIALS
THESIS, WASHINGTON UNIV., ST. LOUIS, MISSOURI, 1972, 132P, UNIV. MICROFILMS ORDER NO. 72-17,959
- 200 72 131 SHIMA M
INDUCED NONVOLATILE NUCLIDES IN METEORITES
PP 508-20 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 200 72 132 STAFFORD EG
A COSMIC RAY STUDY OF PROPERTIES OF NUCLEAR INTERACTION IN THE 10-600 GEV ENERGY RANGE USING
EMULSIONS, SPARK CHAMBERS, AND AN IONIZATION SPECTROMETER
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, 1971, UNIV. MICROFILMS ORDER NO. 71-29,393, DISS. ABS.,
328, 5, 2925, 1971
- 200 72 133 STUDDIER NM HAYATSU R ANDERS E
ORIGIN OF ORGANIC MATTER IN EARLY SOLAR SYSTEM. 5. FURTHER STUDIES OF METEORITIC HYDROCARBONS AND A
DISCUSSION OF THEIR ORIGIN
GEOCHIM. COSMOCHIM. ACTA, 36, 189, 1972
- 200 72 134 TAFF LG SAVEDOFF MP
THE MASS SPECTRUM OF INTERSTELLAR CLOUDS AND THE ASSUMPTION OF TOTAL COALESCENCE

MON. NOTIC. ROY. ASTRON. SOC., 160, 89, 1972
- 200 72 135 TAMAI E NARITA M SAKAI T
ISOTOPIC COMPOSITION OF LOW ENERGY HELIUM NUCLEI IN PRIMARY COSMIC RAYS
NIMON DAIGAKU SEISAN KOGAKUBU HOKOKU, 4, NO. 1, 105, 1971, IN JAPANESE
- 200 72 136 TRIVEDI BNP GOEL PS
PRODUCTION RATES OF NA(22) AND H(3) IN STONE METEORITES BY COSMIC RAYS
PP 315-19 OF PROCEEDINGS OF THE 11TH SYMPOSIUM ON COSMIC RAYS, ASTROPHYSICS, GEOPHYSICS, AND
ELEMENTARY PARTICLE PHYSICS, 1969, VOL. 2, DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1969,
CONF-690555(VOL.2) FROM SYMPOSIUM HELD AT DELHI, INDIA, OCT. 7, 1969
- 200 72 137 TRURAN JW CAMERON AGW
1. EVOLUTIONARY MODELS OF NUCLEOSYNTHESIS IN THE GALAXY. 2. P-PROCESS IN EXPLOSIVE NUCLEOSYNTHESIS
ASTROPHYS. SPACE SCI., 14, 179, 1971, 100 REFERENCES, AND ASTROPHYS. J., 171, 89, 1972
- 200 72 138 UNSOELD A
ABUNDANCE OF IRON IN THE PHOTOSPHERE
PHIL. TRANS. ROY. SOC. LONDON, SER. A, 270, NO. 1202, 23, 1971
- 200 72 139 UTSUMI K
ABUNDANCE ANALYSIS OF COOL CARBON STARS
PUBL. ASTRON. SOC. JAPAN, 22, 93, 1970
- 200 72 140 VAN ZELST L
NONDESTRUCTIVE ACTIVATION ANALYSIS OF SOME ELEMENTS IN STONY METEORITES BY PROTON AND BREMSSTRAHLUNG
IRRADIATION
PP 99-104 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY, BRUNFELT, A.O. (ED.),
UNIVERSITETSFORLAGET, OSLO, 1971, CONF-700968, FROM CONFERENCE HELD AT KJELLER, NORWAY, SEPT. 7,
1970
- 200 72 141 VAN ZELST L ATEN AHM
TITANIUM AND CALCIUM CONTENT OF METEORITES
RADIOCHIM. ACTA, 17, 115, 1972
- 200 72 142 VIDAL NV SHAVIV G KOZLOVSKY BZ
NUCLEOSYNTHESIS DURING HE(4) BURNING
ASTRON. ASTROPHYS., 13, 147, 1971
- 200 72 143 VOLODICHEV NN GRIGOROV NL NECHAEV OY
STUDY OF THE CHEMICAL COMPOSITION OF PRIMARY COSMIC RAYS ON COSMOS 228
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 114, 1971, TRANSLATED FROM GEOMAGN. AERON., 11, 144, 1971

- 200 72 144 WADDINGTON CJ
CHEMICAL COMPOSITION AND ENERGY CONTENT OF THE ENERGETIC COSMIC RADIATION
AD-720410. MINNESOTA UNIV., MINNEAPOLIS. COSMIC RAY GROUP, MARCH 1971. 26P. CR-155
- 200 72 145 WASSON JT SCHAUDY R
CHEMICAL CLASSIFICATION OF IRON METEORITES. 5. GROUPS IIIC AND IIID AND OTHER IRONS WITH GERMANIUM
CONCENTRATIONS BETWEEN 1 AND 25 PPM
ICARUS, 14. NO. 1. 59. 1971
- 200 72 146 WASSON JT
FORMATION OF ORDINARY CHONDRITES
REV. GEOPHYS. SPACE PHYS., 10. 711-59. 1972. 112 REFERENCES
- 200 72 147 WEBBER WR OAMLE SV KISH JM
1. MEASUREMENTS OF THE CHARGE AND ISOTOPE COMPOSITION OF COSMIC RAY LI, BE, AND B NUCLEI. 2. COSMIC
RAY ISOTOPE AND CHARGE RESOLUTION USING LARGE AREA SCINTILLATION-CHERENKOV TOTAL ENERGY TELESCOPES
ASTROPHYS. LTRS. 9. NO. 3. 125. 1971 AND NUCL. INSTRUM. METHODS. 99. 237. 1972. 18 FIGURES
- 200 72 148 WEBER HW HINTENBERGER M BEGEMANN F
NOBLE GASES IN HAVERO UREBLITE
EARTH PLANET. SCI. LTRS. 13. 205. 1971
- 200 72 149 WEFEL JP
MEASUREMENTS OF THE RELATIVE ABUNDANCES OF EXTREMELY HEAVY COSMIC RAYS
THESIS. WASHINGTON UNIV., ST. LOUIS, MISSOURI. 1971. 286P. UNIV. MICROFILMS ORDER NO. 72-9371
- 200 72 150 WILKENING L LAL D REID AM
EVOLUTION OF THE KAPOETA HOWARDITE BASED ON FOSSIL TRACK STUDIES
EARTH PLANET. SCI. LTRS. 10. 334. 1971
- 200 72 151 WOOSLEY SE
NUCLEOSYNTHESIS DURING ADVANCED BURNING STAGES OF STARS (VOLUMES I AND II)
THESIS. RICE UNIV., HOUSTON, TEXAS. 1971. 363P. UNIV. MICROFILMS ORDER NO. 71-26.378
- 200 72 152 WRIGLEY RC
SOME COSMOGENIC RADIONUCLIDES IN THE LOST CITY METEORITE
J. GEOPHYS. RES., 76. 4124. 1971
- 202 72 001 AFROSIMOV VV BOBASHEV SV GORDEEV YS LAVROV VM
INVESTIGATION OF INELASTIC PROCESSES OCCURRING DURING COLLISIONS BETWEEN K(+) IONS AND AR ATOMS
ZH. EKSP. TEOR. FIZ., 62. 61. 1972 IN RUSSIAN
- 202 72 002 ALDRIDGE JP SKOFRONICK JG
NONOBSERVABILITY OF RETARDATION EFFECTS IN VERY LOW ENERGY HELIUM SCATTERING
PHYS. REV. LTRS. 28. 529. 1972
- 202 72 003 ANDERSEN N CARRIVEAU CW JENSEN K VEJE E
STUDY OF ISOTOPICAL EFFECTS IN ATOMIC COLLISIONS
Z. PHYS., 245. NO. 2. 97. 1971
- 202 72 004 ANGEL GC GILES RA
VELOCITY DISTRIBUTION OF ATOMS ISSUING FROM A MULTICHANNEL GLASS CAPILLARY ARRAY AND ITS IMPLICATION
ON MEASUREMENT OF ATOMIC BEAM SCATTERING CROSS SECTIONS
J. PHYS. B. 5. 80. 1972
- 202 72 005 ANKUDINOV VA BOBASHEV SV PEREL VI

OSCILLATIONS OF THE TOTAL CROSS SECTIONS FOR INELASTIC PROCESSES IN ATOMIC COLLISIONS
ZH. EKSP. TEOR. FIZ., 60. 906. 1971 IN RUSSIAN
- 202 72 006 ARIKAWA T MOCHIZUKI T
DIFFERENTIAL ELASTIC SCATTERING OF HELIUM IONS BY METHANE
MASS SPECTRY. JAPAN. 20. 249. 1972 IN ENGLISH
- 202 72 007 ARIKAWA T MOCHIZUKI T MIYAMOTO G
LOW ENERGY ION-MOLECULE SCATTERING APPARATUS
JAP. J. APPL. PHYS., 11. 1212. 1972
- 202 72 008 BAEDER APM JUNGMANN WF LOS J
PRODUCTION OF NEUTRAL ALKALI DIMERS BY SPUTTERING; TOTAL ELASTIC CROSS SECTIONS OF POTASSIUM DIMERS
ON THE NOBLE GASES
PHYSICA. 54. 459. 1971
- 202 72 009 BAILEY AB BUSBY MR DAWBARN R
EFFECT OF SKINNER INTERACTION ON THE PROPERTIES OF PARTIALLY CONDENSED MOLECULAR BEAMS
AD-746 292. NATIONAL TECHNICAL INFORMATION SERVICE. U. S. DEPT. OF COMMERCE. SPRINGFIELD, VA. 22151.
1972
- 202 72 010 EATES DR
SEMICLASSICAL TREATMENT OF INELASTIC ATOMIC COLLISIONS
COMMENTS AT. MOL. PHYS., 3. 23. 1971. 23 REFERENCES
- 202 72 011 BAUDON J
COLLISIONS OF IONS AND ATOMS OF RARE GASES AT MEDIUM ENERGIES (500 TO 3000 EV)
FRNC-TH-129. THESIS. PARIS UNIV., ORSAY, FRANCE, 1969. 172P IN FRENCH
- 202 72 012 BAYE O
EXCITATION OF THE HELIUM ATOM BY A FAST PROTON
BULL. CL. SCI., ACAD. ROY. BELG., 56. 1274. 1970 IN FRENCH
- 202 72 013 BELYAEV VA
EXPERIMENTAL POSSIBILITIES OF THE MERGING BEAM TECHNIQUE TO STUDY ION-ATOM COLLISION PROCESSES
PP 133-49 OF PHYSICS OF IONIZED GASES. NAVINSEK B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA.
YUGOSLAVIA. 1970. CONF-700706. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGNOVI, YUGOSLAVIA
- 202 72 014 BENNEWITZ HG
MOLECULAR BEAM EXPERIMENTS WITH DIATOMIC MOLECULES IN EXCITED VIBRATIONAL STATES: THE ELECTRIC
DIPOLE MOMENT AND THE QUADRUPOLE COUPLING CONSTANT OF CSF UP TO V=8
Z. PHYS., 249. 168. 1971

- 202 72 015 BERGERON G CHAPUISAT X
CLASSIC STUDY OF THE INFLUENCE OF INDUCED ROTATION AND ANISOTROPY EFFECTS ON ENERGY TRANSFER BETWEEN
AN ATOM AND A DIATOMIC MOLECULE
CHEM. PHYS. LETT. 11. 334. 1971
- 202 72 016 BERKLING K HELBING R KRAMER K PAULY H SCHLIER C
TOSCHEK P
EFFECTIVE COLLISION CROSS SECTIONS IN SCATTERING EXPERIMENTS
MLM-1841(TR). TRANSLATED FOR MOUND LAB., MIAMISBURG, OHIO, FROM Z. PHYS., 166. 406. 1962. 23P
- 202 72 017 BERNSTEIN RB CURTISS CF PATTENGILL MD
MOLECULAR COLLISIONS. 15. CLASSICAL LIMIT OF THE GENERALIZED PHASE SHIFT TREATMENT OF ROTATIONAL
EXCITATION: ATOM-RIGID ROTOR
N71-29038. NATIONAL TECHNICAL INFORMATION SERVICE, U. S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 202 72 018 BERNSTEIN RB
POTENTIAL PRACTICAL APPLICATIONS OF BASIC RESEARCH IN MOLECULAR DYNAMICS
ISRAEL J. CHEM., 9. 615. 1971
- 202 72 019 BERTHIER JP CONSTANS A DAURY G
MEASUREMENT OF MOLECULAR BEAM VELOCITY DISTRIBUTION FUNCTION
REV. PHYS. APPL., 6. 433. 1971
- 202 72 020 BETZ HD GRODZINS L WITTKOWER A RYDING G
DETERMINATION OF LIFETIMES FOR MULTIPLY CHARGED HEAVY IONS EXCITED IN COLLISIONS WITH LIGHT GASES
PHYS. REV. LETT., 26. 871. 1971
- 202 72 021 BINGHAM FW RICE JK
DELAYED-COINCIDENCE STUDY OF O(+)-XE COLLISIONS AT 50 TO 210 KEV
PHYS. REV., 4A. 996. 1971
- 202 72 022 BOBBIO SM RICH WG DOVERSPIKE LD CHAMPION RL
INTERPRETATION OF EXPERIMENTAL DIFFERENTIAL ELASTIC SCATTERING CROSS SECTION FOR H(+) + NE
PHYS. REV., 4A. 957. 1971
- 202 72 023 BOCHKOVA OP TOLMACHE YA
GENERATION OF AN EXCITED ION BY COLLISION OF TWO METASTABLE ATOMS
OPT. SPEKTROSK., 32. 827. 1972 IN RUSSIAN
- 202 72 024 BONSEN TFM BANKS D
ANGULAR DISTRIBUTION OF ELECTRONS EJECTED BY CHARGED PARTICLES. 3. CLASSICAL TREATMENT OF FORWARD
EJECTION
J. PHYS., 8. 4. 706. 1971
- 202 72 025 BROOKS RA ANDERSON CH RAMSEY NF
MOLECULAR BEAM EXPERIMENTS ON KNA AND LINA
J. CHEM. PHYS., 56. 5193. 1972
- 202 72 026 BROWN NJ MUNN RJ
MOLECULAR DYNAMICS: THE DISSOCIATION OF H2 BY HE
J. CHEM. PHYS., 56. 1983. 1972
- 202 72 027 BROWN NJB
ENERGY EXCHANGE IN H2 + HE COLLISIONS
THESIS. UNIV. OF MARYLAND, COLLEGE PARK, 1971. 101P. UNIV. MICROFILMS ORDER NO. 72-1680
- 202 72 028 BUBERT H
POPULATION AND PREDISSOCIATION OF VIBRONIC STATES OF NITRIC OXIDE
J. CHEM. PHYS., 56. 1113. 1972
- 202 72 029 BUCK U KICK M PAULY H
DETERMINATION OF INTERMOLECULAR POTENTIALS BY THE INVERSION OF MOLECULAR BEAM SCATTERING DATA. 3.
HIGH RESOLUTION MEASUREMENTS AND POTENTIALS FOR K-HG AND CS-HG
J. CHEM. PHYS., 56. 3391. 1972
- 202 72 030 BUTZ HP FELTGEN R PAULY H VEHMEYER H YEALLAND RM
1. TOTAL EFFECTIVE SCATTERING CROSS SECTIONS OF THE HD-INERT GAS SYSTEMS IN THE THERMAL ENERGY
REGION. 2. TOTAL EFFECTIVE CROSS SECTIONS FOR THE SCATTERING OF HE, HD, AND D2 BY SEVERAL
MOLECULES
Z. PHYS., 247. 60 AND 70. 1971 IN GERMAN
- 202 72 031 CANTINI P DONDI MG TORELLO F
CALIBRATION OF A SLOTTED DISK VELOCITY SELECTOR USING SUPERSONIC MOLECULAR BEAMS
Z. NATURFORSCH., 26A. NO. 10. XXX. 1971
- 202 72 032 CARLSTON CE
DIFFERENTIAL SCATTERING OF H(+) AND HE(+) FROM THE RARE GASES
THESIS. UNIV. OF VIRGINIA, CHARLOTTESVILLE, 1971. 68P. UNIV. MICROFILMS ORDER NO. 72-7281
- 202 72 033 CAVILLINI M DONDI MG SCOLES G VALBUSA U
NONSPHERICAL POTENTIALS AND MOLECULAR SCATTERING AT THERMAL ENERGIES: NITROGEN AND THE NOBLE GASES
CHEM. PHYS. LETT., 10. 22. 1971
- 202 72 034 CHANTRY PJ
DOPPLER BROADENING IN BEAM EXPERIMENTS
J. CHEM. PHYS., 55. 2746. 1971
- 202 72 035 CHATTERJEE G MCDOWELL MRC
ELECTRON CAPTURE BY FAST PROTONS IN HE AND H2
J. PHYS., 8. 4. 896. 1971
- 202 72 036 CHAUDHURI J BHATTACHARYA DM SIL NC
3S AND 3P EXCITATIONS OF ATOMIC HYDROGEN BY PROTON AND ALPHA PARTICLE IMPACT
J. PHYS., 8. 5. 525. 1972
- 202 72 037 CHIANG MH GISLASON EA MAHAN BH TSAO CW WERNER AS
LARGE ANGLE ELASTIC SCATTERING OF AR(+) BY HE
J. CHEM. PHYS., 55. 3937. 1971

- 202 72 038 CHIANG MMH
REACTIVE AND INELASTIC SCATTERING OF MOLECULAR IONS
LBL-474. THESIS. CALIFORNIA UNIV., BERKELEY, FEB. 1972. 87P. LAWRENCE BERKELEY LAB.
- 202 72 039 CHUNG S LIN CC
UTILITY OF GAUSSIAN TYPE ORBITALS IN MOLECULAR COLLISIONS: ELECTRONIC EXCITATION OF THE FIRST
POSITIVE SYSTEM OF THE NITROGEN MOLECULE
APPL. OPT., 10, 1790, 1971
- 202 72 040 CLARKE JH WEARE JH THIELE E
REACTION MATRIX METHOD FOR COMPUTING PROBABILITIES OF VIBRATION-TRANSLATION ENERGY TRANSFER: RANGE
OF APPLICABILITY FOR THE COLLINEAR COLLISION OF AN ATOM AND A DIATOMIC
J. CHEM. PHYS., 55, 3201, 1971
- 202 72 041 CLERC M
KINETIC BEHAVIOR OF NEUTRAL AND IONIC SPECIES IN THE GAS PHASE DURING THEIR FIRST COLLISIONS
CEA-M-1556. THESIS. UNIV. OF PARIS, ORSAY, FRANCE, AUG. 1972. 119P IN FRENCH. COMMISSARIAT A L'
ENERGIE ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES
- 202 72 042 COMEN JS EVANS SA LANE NF
QUANTUM-MECHANICAL CALCULATION OF CROSS SECTIONS FOR INELASTIC ATOM-ATOM COLLISIONS. 2. MODEL
CALCULATION UNDER VARIOUS COUPLING CONDITIONS
PHYS. REV., 4A, 2248, 1971
- 202 72 043 COMEN RB
FORMATION OF NO(+) BY REACTION AND VIBRATIONALLY EXCITED N2 IN CROSSED MOLECULAR BEAMS
J. CHEM. PHYS., 57, 676, 1972
- 202 72 044 COLLINS FG HURLBUT FC
MEASUREMENT OF LOW ENERGY SCATTERING CROSS SECTIONS FOR THE HE-N2 SYSTEM
J. CHEM. PHYS., 56, 2609, 1972.
- 202 72 045 CONNOR JM MARCUS RA
THEORY OF SEMICLASSICAL TRANSITION PROBABILITIES FOR INELASTIC AND REACTIVE COLLISIONS. 2.
ASYMPTOTIC EVALUATION OF S MATRIX
J. CHEM. PHYS., 55, NO. 12, XXX, 1971
- 202 72 046 CORRIGALL B KUPPERS B WALLACE R
GENERALIZED IMPACT PARAMETER METHOD FOR LOW ENERGY MOLECULAR COLLISIONS
PHYS. REV., 1A, 9FF, 1971
- 202 72 047 CRANDALL OH YORK G POL V PARK JT
COLLISIONAL EXCITATION OF N(+) AT 50 KEV
PHYS. REV. LETT., 28, 397, 1972
- 202 72 048 CUDERMAN JF
IONIZATION OF K ATOMS IN COLLISION WITH H2, N2, O2, AND CO
PHYS. REV., 5A, 1687, 1972
- 202 72 049 DAGNAC R ANGLAS JM BLANC D MOLINA D PRADAL R
PRODUCTION D'IONS H ET H2 PAR DISSOCIATION D'IONS H3 ET H2 SUR UNE CIBLE DE VAPEUR D'EAU. (PRODUCTION OF H(+) AND H2(+) IONS BY THE DISSOCIATION OF H3(+) IONS IN THE BOMBARDMENT OF A WATER TARGET).
COMPT. REND., SER. B, 273, 460, 1971
- 202 72 050 DEL BOCA R HAYDEN HC THOMSON GM
- PROMOTION OF L SHELL ELECTRONS TO HIGHER BOUND STATES IN AR(+) - AR COLLISIONS
PHYS. REV. LETT., 26, 1417, 1971
- 202 72 051 DETTMANN K
HIGH ENERGY TREATMENT OF ATOMIC COLLISIONS
SPRINGER TRACTS MOD. PHYS., 58, 119-206, 1971
- 202 72 052 DITTNER PF DATZ S
COLLISION INDUCED VIBRATIONAL EXCITATION AND DISSOCIATION OF HYDROGEN WITH ALKALI ATOMS AND IONS
FROM 2 TO 50 EV
J. CHEM. PHYS., 54, 4228, 1971
- 202 72 053 DYKE TR KLENHOFER W GINODERO AP
ELECTRIC DEFLECTION OF MOLECULAR BEAMS OF CARBON SUBOXIDE AND CARBON SUBSULFIDE
J. CHEM. PHYS., 56, 3993, 1972
- 202 72 054 ESTERMAN I
3RD INTERNATIONAL SYMPOSIUM ON MOLECULAR BEAMS, CANNES, JUNE 29 - JULY 2, 1971
AD-733 060. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971.
- 202 72 055 EVANS SA COMEN JS LANE NF
QUANTUM-MECHANICAL CALCULATIONS OF CROSS SECTIONS FOR INELASTIC ATOM-ATOM COLLISIONS. 1. INELASTIC
2(3)S TO 2(3)P COLLISIONS BETWEEN METASTABLE AND GROUND STATE HELIUM ATOMS
PHYS. REV., 4A, 2235, 1971
- 202 72 056 FAJFRUP B HERMANN S KESSEL GC
EXPERIMENTAL STUDY OF THE EFFECT OF VELOCITY AND OUTER SHELL CONFIGURATION ON THE PROBABILITY FOR
PRODUCING K VACANCIES IN VIOLENT ION-ATOM COLLISIONS AT KEV ENERGIES
PHYS. REV. LETT., 27, 771, 1971
- 202 72 057 FAYETON J PERNOT A BARAT M FOURNIER P
COLLISIONS OF N2(+) IONS ON NOBLE GAS ATOMS. 2.
J. PHYS. (PARIS), 32, 743, 1971
- 202 72 058 FERGUSON EE DUNKIN DB FEHSENFELD FC
REACTIONS OF NO2 AND NO3 WITH HCL AND HBR
J. CHEM. PHYS., 57, 1459, 1972
- 202 72 059 FLEISCHMANN HH DEHMEL RC LEE SK
DIRECT TRANSITION FEATURES IN STRIPPING COLLISIONS OF HEAVY NEUTRAL ATOMS AND IONS
PHYS. REV., 5A, 1784, 1972

- 202 72 060 FOURNIER P DURUP J PERNOT A
COLLISIONS OF $N_2(+)$ IONS ON NOBLE GAS ATOMS. 1. COLLISION INDUCED DISSOCIATION OF $N_2(+)$
J. PHYS. (PARIS), 32, 533, 1971
- 202 72 061 FOURNIER P VAN DE RUNSTRAA CA GOVERS TR SCHOPMAN J DE MEER FJ
LOS J
COLLISION INDUCED DISSOCIATION OF 10 KEV $N_2(+)$ IONS. EVIDENCE FOR PREDISSOCIATION OF THE $C(2) \Sigma^+$ STATE
CHEM. PHYS. LETT., 9, 426, 1971
- 202 72 062 FRANCO V
SCATTERING OF CHARGED PARTICLES BY ATOMS
PHYS. REV. LETT., 26, 1088, 1971
- 202 72 063 GABOVICH MD NAIDA AP
EXCHANGE OF ENERGY BETWEEN COLLECTIVELY INTERACTING BEAMS OF POSITIVE AND NEGATIVE IONS
JETP LETT. USSR (ENGL. TRANS.), 14, 1, 1971
- 202 72 064 GEDEON A EDELSTEIN SA DAVIDOVITS P
CROSS SECTIONS FOR THE COLLISION OF THALLIUM $6(2)P(1/2)$ AND $6(2)P(3/2)$ WITH I_2
J. CHEM. PHYS., 55, 5171, 1971
- 202 72 065 GEORGAKA JH RABINOVITZ BS
COLLISION TRANSFER OF VIBRATIONAL ENERGY FROM HIGHLY EXCITED POLYATOMICS. TRANSITION PROBABILITIES
AND CROSS SECTIONS FOR INEFFICIENT BATH GASES
J. CHEM. PHYS., 56, 5921, 1972
- 202 72 066 GERSH ME BERNSTEIN RB
MEASUREMENT OF ENERGY DEPENDENCE OF CROSS SECTION FOR REACTION $K + CH_3I \rightarrow KI + CH_3$ FROM 0.1-1 EV
J. CHEM. PHYS., 55, 4661, 1971. PB-202 257. WISCONSIN UNIV., MADISON, THEORETICAL CHEMISTRY INST. 5P
- 202 72 067 GILBODY HB
USE OF LOW ENERGY ACCELERATORS FOR THE STUDY OF GAS PHASE ATOMIC COLLISION PHENOMENA
NUCL. INSTRUM. METHODS, 92, 517, 1971. CONF-700563. FROM SYMPOSIUM ON THE USE OF LOW ENERGY
ACCELERATORS, LONDON, ENGLAND, MAY 27, 1970
- 202 72 068 GILBODY HB DUNN KF BROWNING R LATIMER CJ
FORMATION OF METASTABLE HELIUM ATOMS BY ELECTRON CAPTURE DURING THE PASSAGE OF FAST $He(+)$ IONS
THROUGH GASES
J. PHYS. B, 4, 800, 1971
- 202 72 069 GILLES JP COIFFET P BREBEC JM
STUDY AND MEASUREMENT OF THE CHARACTERISTICS AND POLARIZATION OF A POLARIZED ATOMIC JET
NUCL. INSTRUM. METHODS, 99, 49, 1972 IN FRENCH
- 202 72 070 GISLASON EA
1. APPROXIMATE DIFFERENTIAL CROSS SECTIONS AT LARGE SCATTERING ANGLES FOR SIMPLE REPULSIVE
POTENTIALS. 2. EXACT SERIES SOLUTION OF CLASSICAL DEFLECTION ANGLE FOR REPULSIVE INVERSE POWER
POTENTIAL
J. CHEM. PHYS., 55, 3929, 1971 AND 56, 2493, 1972
- 202 72 071 GORDEEV YS OGURTSOV GN
INTERPRETATION OF THE ENERGY SPECTRUM OF ELECTRONS PRODUCED IN ATOMIC COLLISIONS
ZH. EKSP. TEOR. FIZ., 60, 2051, 1971 IN RUSSIAN
- 202 72 072 GOULD GN

ATOMIC BEAM MEASUREMENTS OF SOME SODIUM EXCITATION FUNCTIONS
NP-19037. NEW SOUTH WALES UNIV., KENSINGTON, AUSTRALIA, SCHOOL OF PHYSICS, JAN. 1970. 223P
- 202 72 073 GRACE RS
TOTAL SCATTERING CROSS SECTION OF $He-H_2$ AT THERMAL ENERGIES
THESIS, FLORIDA STATE UNIV., TALLAHASSEE, 1971. 137P. UNIV. MICROFILMS ORDER NO. 72-268
- 202 72 074 GRACE RS SKOFRONICK JG
ABSOLUTE TOTAL SCATTERING CROSS SECTION OF $He-H_2$ OVER THE RELATIVE VELOCITY RANGE OF 2000 TO 3000 M/
SEC
J. CHEM. PHYS., 56, 3403, 1972
- 202 72 075 GUIDINI J ROUSSEL M VALCKX FPG
COLLISIONAL REACTIONS OF 40 TO 140 KEV $CH(N)(+)$ IONS ON DIFFERENT GASES
CEA-CONF-1799. COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE. CENTRE D'ETUDES
NUCLEAIRES, 1971. 2P. CONF-710702-4. FROM 7TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF
ELECTRONIC AND ATOMIC COLLISIONS, AMSTERDAM, NETHERLANDS, JULY 26, 1971
- 202 72 076 HERRERO FA DOERING JP
SUPERELASTIC COLLISIONS OF VIBRATIONALLY EXCITED $H_2(+)$ WITH ATOMS AND MOLECULES
PHYS. REV. LETT., 29, 609, 1972
- 202 72 077 HESS P
THEORY OF VIBRATIONAL-ROTATIONAL ENERGY TRANSFER PROCESSES
BER. BUNSEN. PHYS. CHEM., 75, 592, 1971 IN GERMAN
- 202 72 078 HOFACKER GL
NONADIABATIC MODEL FOR POPULATION INVERSION IN MOLECULAR COLLISIONS
CHEM. PHYS. LETT., 9, 617, 1971
- 202 72 079 HUSHFAR F ROGERS JW STAIR AT
INFRARED CHEMILUMINESCENCE OF REACTION $N + O_2 \rightarrow NO + O$
APPL. OPT., 10, 1843, 1971
- 202 72 080 INOUE H KITA S
1. ELASTIC SCATTERING OF $Li(+)$ IONS IN HELIUM. 2. EXPERIMENTAL DETERMINATION OF REPULSIVE POTENTIALS
BETWEEN $K(+)$ IONS AND RARE GAS ATOMS
CAN. J. PHYS., 57, 1301, 1972 AND J. CHEM. PHYS., 56, 4877, 1972
- 202 72 081 JOHNSON BR LEVINE RD
NEW APPROACH TO NONADIABATIC TRANSITIONS IN COLLISION THEORY
CHEM. PHYS. LETT., 13, 168, 1972

- 202 72 082 KALININ AP LEONAS VB SERMYAGIN AV
RESOLUTION IN THE TOTAL AND DIFFERENTIAL SCATTERING CROSS SECTION MEASUREMENTS WITH ATOMIC BEAMS
VESTN. MOSK. UNIV. SER. III. FIZ. ASTRON., 12, 245, 1971 IN RUSSIAN
- 202 72 083 KEEVER WC
COINCIDENCE MEASUREMENT OF CLOSE H(+) ON HE COLLISIONS
THESIS. UNIV. OF CONNECTICUT, STORRS, 1970. 56P. UNIV. MICROFILMS ORDER NO. 71-15,997
- 202 72 084 KEMPTER V MECKLENBRAUCK W MENZINGER M SCHLIER C
EXCITATION CROSS SECTIONS FOR COLLISIONS OF ALKALI ATOMS WITH MOLECULES: THRESHOLDS AND ENERGY
DEPENDENCE FROM 1 TO 10 EV
CHEM. PHYS. LETT., 11, 353, 1971
- 202 72 085 KISHINEVSKII LM
CHARACTERISTIC ENERGY LOSSES IN NE(+)-NE COLLISIONS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 2027, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 2585,
1970.
- 202 72 086 KODERA K KUSUNOKI I SAKIYAMA A KAWAI Y
PRECISE MEASUREMENTS OF TOTAL CROSS SECTIONS FOR THE SCATTERING OF POTASSIUM ATOMS BY RARE GASES,
PARTS 1 AND 2
MASS SPECTRY, JAPAN, 19, 179, 1971 AND 20, 35, 1972 IN JAPANESE
- 202 72 087 KOLB CE KAUFMAN M
MOLECULAR BEAM ANALYSIS INVESTIGATION OF THE REACTION BETWEEN ATOMIC FLUORINE AND CARBON
TETRACHLORIDE
J. PHYS. CHEM., 76, 947, 1972. AD-729 689, PRINCETON UNIV., NEW JERSEY, 37P
- 202 72 088 KONSTANTINOV SG SOROKIN AF TSEL'NIK FA
NEUTRAL ATOM STREAM ANALYZER
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 1006, 1971. TRANSLATED FROM PRIB. TEKH. EKSP., 14, NO.
4, 54, 1971
- 202 72 089 KRAUSE HF
DIFFERENTIAL CROSS SECTION FOR THE REACTIVE SCATTERING OF DEUTERIUM ATOMS BY HYDROGEN MOLECULES:
CROSS SECTIONS FOR THE EXCITATION OF NA(3(2)P) BY COLLISIONS WITH INTERNALLY EXCITED MOLECULAR
HYDROGEN, DEUTERIUM, AND NITROGEN
THESIS. UNIV. OF PITTSBURGH, PENNSYLVANIA, 1970. 258P. UNIV. MICROFILMS ORDER NO. 71-17,689
- 202 72 090 KUNZWEIG L
1. EXCITATION OF 3914-A N2(+) RADIATION IN COLLISIONS OF HEAVY IONS WITH N2. 2. OBSERVATION OF FINE
STRUCTURE EFFECTS IN HYDROGEN LYMAN-ALPHA USING THE BEAM-FOIL METHOD
THESIS. UNIV. OF PITTSBURGH, PENNSYLVANIA, 1970. 216P. UNIV. MICROFILMS ORDER NO. 71-13,220
- 202 72 091 KUSUNOKI I
MEASUREMENTS OF TOTAL CROSS SECTIONS FOR THE SCATTERING OF POTASSIUM ATOMS BY RARE GASES. 3
BULL. CHEM. SOC. JAPAN, 44, 2067, 1971
- 202 72 092 LA BUDDER RA BERNSTEIN RB
CLASSICAL STUDY OF ROTATIONAL EXCITATION OF A RIGID ROTOR: LI(+) + H2
J. CHEM. PHYS., 55, 5499, 1971
- 202 72 093 LA BUDDER RA
EVALUATION OF JACOBIAN DETERMINANTS BY MONTE CARLO METHODS: APPLICATION TO THE QUASICLASSICAL
APPROXIMATION IN MOLECULAR SCATTERING
CHEM. PHYS. LETT., 13, 154, 1972
- 202 72 094 LANG NC LILENFELD MV KINSEY JL
VELOCITY CORRECTIONS FOR TOTAL SCATTERING CROSS SECTIONS
J. CHEM. PHYS., 55, 3114, 1971
- 202 72 095 LARKINS FP
COMMENT ON FAST ELECTRON-SLOW ELECTRON COINCIDENCE STUDY OF VIOLENT AR(+)-AR COLLISIONS
PHYS. REV., 5A, 2288, 1972
- 202 72 096 LATYPOV ZZ SHAPOREN AA
MEASURING SECTIONS OF ION-ATOMIC COLLISION PROCESSES IN A COLLISION ENERGY INTERVAL OF 200-3000
ELECTRON VOLTS
ZH. TEKH. FIZ., 42, 151, 1972 IN RUSSIAN
- 202 72 097 LEFFERT CB JACKSON WM ROTHE EW
A TIME-OF-FLIGHT CHEMICAL ACCELERATOR FOR LOW CENTER-OF-MASS ENERGY SPREADS
REV. SCI. INSTRUM., 43, 917, 1972
- 202 72 098 LEVINE MM
EFFECT OF MODERATION ON REACTION CROSS SECTION MEASUREMENTS
NUCL. SCI. ENG., 44, 372, 1971
- 202 72 099 LIU CB
OPTICAL SPECTRA OBSERVED DURING ION-MOLECULE COLLISIONS WITH LOW ENERGY N2(+) AND AR(+) BEAMS
THESIS. UNIV. OF CALIFORNIA, SANTA BARBARA, 1969. 212P. UNIV. MICROFILMS ORDER NO. 70-24,237
- 202 72 100 LORENTS DC CONKLIN GM
ELASTIC AND INELASTIC SCATTERING IN THE LI(+) + HE SYSTEM
SRIA-115-P-84-2. TECHNICAL REPORT NO. 2. STANFORD RESEARCH INST., MENLO PARK, CALIF., JULY 1971. 35P
- 202 72 101 LOWE RP FERGUSON HIS
ROTATIONAL EXCITATION IN LI(+) HE COLLISIONS
CAN. J. PHYS., 49, 1680, 1971
- 202 72 102 MAHADEVAN P CARPENTER MC
TECHNIQUE OF ION AND ELECTRON BEAM SUPERPOSITION FOR THE STUDY OF COLLISION PHENOMENA
PP 8-13 OF ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY, BAKISH, R. (ED.), ELECTROCHEMICAL SOCIETY
INC., NEW YORK, 1970. FROM 4TH INTERNATIONAL CONFERENCE HELD AT LOS ANGELES, CALIFORNIA, MAY 10,
1970
- 202 72 103 MANISIA EJ SHELTON JW FISCHLER RF
A HIGH PASS, MECHANICAL VELOCITY FILTER FOR FAST NEUTRAL MOLECULAR BEAMS
N71-30745. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971

- 202 72 104 MARCUS RA
THEORY OF SEMICLASSICAL TRANSITION PROBABILITIES (S MATRIX) FOR INELASTIC AND REACTIVE COLLISIONS.
3. UNIFORMIZATION USING EXACT TRAJECTORIES. 4. UNIFORMIZATION WITH ELASTIC COLLISION TRAJECTORIES
J. CHEM. PHYS., 56, 311 AND 3548, 1972
- 202 72 105 MARTIN LR GOLDBAUM RH
CURRENT TRANSIENT LIMITER FOR AN ELECTRON BOMBARDMENT HEATED MOLECULAR BEAM OVEN
REV. SCI. INSTRUM., 42, 1077, 1971
- 202 72 106 MASNOU-SEEUWS F MCCARROLL R
EXCITATION BY PROTON IMPACT OF FINE STRUCTURE TRANSITIONS IN POSITIVE IONS OF P(2) CONFIGURATION
ASTRON. ASTROPHYS., 17, 441, 1972
- 202 72 107 MASSEY H
ATOM-ATOM AND ATOM-ION COLLISIONS. 1. COLLISIONS BETWEEN NEUTRAL ATOMS IN WHICH NO EXCITATION OCCURS
CONTEMP. PHYS., 12, 937, 1971
- 202 72 108 MATHUR KC TRIPATHI AN JOSHI SK
1. PROTON IMPACT EXCITATION FOR ALKALI ATOMS. 2. ELECTRON LOSS FROM HYDROGEN ATOMS INCIDENT ON
MOLECULAR HYDROGEN, NITROGEN, AND OXYGEN
PHYS. LTRS. 35A, 139, 1971 AND 36A, 189, 1971
- 202 72 109 MATHUR KC TRIPATHI AN JOSHI SK
1. EXCITATION OF HYDROGEN IN COLLISIONS WITH ALKALI METAL ATOMS. 2. ELECTRON LOSS IN ATOM-MOLECULE
COLLISIONS
PHYS. REV., 6A, 1248, 1972 AND J. PHYS. B, 5, 1529, 1972
- 202 72 110 MICHAUD P CVETANOVIC RJ
REACTION OF EXCITED OXYGEN ATOMS O((1)D(2)) WITH CYCLOPENTANE
J. PHYS. CHEM., 76, 1375, 1972
- 202 72 111 MILLER WB SAFRON SA HERSCHBA DR
MOLECULAR BEAM KINETICS: FOUR-ATOM COLLISION COMPLEXES IN EXCHANGE REACTIONS OF CSCL WITH KCL AND KI
J. CHEM. PHYS., 56, 3581, 1972
- 202 72 112 MILLER WH
CLASSICAL S MATRIX FOR ROTATIONAL EXCITATION: QUENCHING OF QUANTUM EFFECTS IN MOLECULAR COLLISIONS
J. CHEM. PHYS., 54, 5386, 1971
- 202 72 113 WITTMANN HU WEISE HP DING A HENGLEIN A
ION SCATTERING. 1. RAINBOW EFFECT IN ELASTIC SCATTERING OF PROTONS BY ARGON. 3. RAINBOW EFFECTS WITH
SCATTERING OF H(+) ON N2, CO, CO2, SF6, H2, AND CH4 AND H2(+) ON AR AND KR
Z. NATURFORSCH., 26A, 1112 AND 1282, 1971 IN GERMAN
- 202 72 114 MIZUNO J CHEN JCY
THEORETICAL INVESTIGATION OF COMPLEX POTENTIALS FOR ATOMIC COLLISIONS. 2. SEMICLASSICAL DESCRIPTIONS
OF ATOMIC COLLISIONS
PHYS. REV., 4A, 1500, 1971
- 202 72 115 MOORE JH
AN INVESTIGATION OF THE LOW ENERGY SINGLET-TRIPLET AND SINGLET-SINGLET TRANSITIONS IN ETHYLENE
DERIVATIVES BY ION IMPACT
J. PHYS. CHEM., 76, 1130, 1972
- 202 72 116 MORAN TF PETTY F TURNER GS
PURE ROTATIONAL EXCITATION IN CO(+)-AR INTERACTIONS BY ION BEAM COLLISION SPECTROSCOPY

CHEM. PHYS. LTRS., 9, 379, 1971
- 202 72 117 MORSE RI
SEMICLASSICAL TRANSITION PROBABILITIES FOR COLLINEAR DIATOM-DIATOM COLLISIONS
J. CHEM. PHYS., 56, 2329, 1972
- 202 72 118 MOSELEY JT PETERSON JR LORENTS DC
DEEXCITATION OF FAST HE, NE, AND AR METASTABLE ATOMS IN VARIOUS GASES
PHYS. REV., 6A, 1025, 1972
- 202 72 119 NATHAN RD ISLER RC
POLARIZATION OF THE H-ALPHA LINE PRODUCED IN HE(+) + H2 COLLISIONS
PHYS. REV. LTRS., 26, 1091, 1971
- 202 72 120 NEYNABER RH MAGNUSON GD TRUJILLO SM MYERS B
MERGING BEAMS STUDIES OF BA COLLISIONS WITH ATMOSPHERIC MOLECULAR IONS
PHYS. REV., 5A, 285, 1972. AD-736 670, 1971
- 202 72 121 NIKITIN EE RUSIN LY
ANGULAR DISTRIBUTION OF PRODUCTS OF REACTIONS PROCEEDING THROUGH FORMATION OF A LONG LIVED COMPLEX
DOKL. AKAD. NAUK SSSR, 198, 330, 1971 IN RUSSIAN
- 202 72 122 O'DORNE TJ BROOKS PR KASPER JV
MOLECULAR BEAM REACTION OF K WITH HCL: EFFECT OF VIBRATIONAL EXCITATION OF HCL
J. CHEM. PHYS., 55, 1980, 1971
- 202 72 123 OKEL JGR VAN DE REE J
INTERPRETATION OF ALKALI-INERT GAS BEAM SCATTERING WITH THE BUCKINGHAM-CORNER POTENTIAL
J. CHEM. PHYS., 54, 4259, 1971
- 202 72 124 OLSON RE SMITH FT
FUNDAMENTAL PRINCIPLES OF COLLISION SPECTROSCOPY IN DIATOMIC SYSTEMS
SRI-115-P-78-9. FINAL REPORT, DEC. 1968 - JAN. 1972. STANFORD RESEARCH INST., MENLO PARK, CALIF.,
DEC. 1971, 80P
- 202 72 125 PARR CA TRUHLAR OG
POTENTIAL ENERGY SURFACES FOR ATOM TRANSFER REACTIONS INVOLVING HYDROGENS AND HALOGENS
J. PHYS. CHEM., 75, 1844, 1971
- 202 72 126 PARSON JM SISK PE LEE YT
1. INTERMOLECULAR POTENTIALS FROM CROSSED BEAM DIFFERENTIAL ELASTIC SCATTERING MEASUREMENTS. IV. AR
+ AR. 2. CROSSED MOLECULAR BEAM STUDY OF F + C2H4 AND C2D4
J. CHEM. PHYS., 56, 1511 AND 4658, 1972

- 202 72 127 PATTENGILL MD CURTISS CF BERNSTEIN RB LA BUDDER RA
MOLECULAR COLLISIONS. 15. CLASSICAL LIMIT ON THE GENERALIZED PHASE SHIFT TREATMENT OF ROTATIONAL
EXCITATION: ATOM-ATOM ROTOR. 16. COMPARISON OF GPS WITH CLASSICAL TRAJECTORY CALCULATIONS OF
ROTATIONAL INELASTICITY FOR THE AR-N₂ SYSTEM
J. CHEM. PHYS., 55, 3682 AND 5517, 1971
- 202 72 128 PAULY H
HIGH RESOLUTION MOLECULAR BEAM SCATTERING EXPERIMENTS AT THERMAL ENERGIES AND THE DETERMINATION OF
INTERMOLECULAR POTENTIALS BY DIRECT INVERSION OF THE SCATTERING DATA
PP 155-69 OF ATOMIC PHYSICS 2. SANDARS, P.G.H. (ED.), PLENUM PRESS, LONDON, 1971. 23 REFERENCES.
FROM CONFERENCE HELD AT OXFORD, ENGLAND, JULY 21, 1970
- 202 72 129 PETTY F MORAN TF
VIBRATIONALLY INELASTIC LOW ENERGY CO(+) - AR COLLISIONS
PHYS. REV., 5A, 266, 1972
- 202 72 130 PETTY FC
ENERGY TRANSFER IN COLLISIONS OF SMALL MOLECULES
THESIS, GEORGIA INST. OF TECHNOLOGY, ATLANTA, 1971. UNIV. MICROFILMS ORDER NO. 71-28,103. DISS. ABS
.. 32B, 5, 2637, 1971
- 202 72 131 PHELPS AV PACK JL
LABORATORY STUDIES OF ATOMIC COLLISION PROCESSES IN ATMOSPHERIC GASES
AD-706 922, WESTINGHOUSE RES. LABS., PITTSBURGH, PA. 43P
- 202 72 132 POP SS ZAPESCHNYI IP
EXCITATION OF POTASSIUM IONS BY COLLISIONS WITH ARGON ATOMS
OPT. SPECTROSC. USSR (ENGL. TRANS.), 31, 3, 1971. TRANSLATED FROM OPT. SPEKTROSK., 31, 8, 1971
- 202 72 133 POWERS TR CROSS RJ
MOLECULAR BEAM DETERMINATION OF MERCURY-RARE GAS INTERMOLECULAR POTENTIALS
J. CHEM. PHYS., 56, 3181, 1972
- 202 72 134 RABINOVITZ BS CARROLL HF RYNBRAND JD THRUSH BA ATKINSON R
VIBRATIONAL DEEXCITATION OF HIGHLY EXCITED POLYATOMIC MOLECULES. THE AMOUNT OF ENERGY TRANSFERRED
PER COLLISION
AD-735 600, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151,
1971
- 202 72 135 KAHN R VADJILEV G DAUDON J BARAT M
DIFFERENTIAL MEASUREMENT OF THE HE 3(3)P EXCITATION, IN HE(+) - HE COLLISIONS BY USING AN ION-PHOTON
COINCIDENCE METHOD
PHYS. REV. LETT., 26, 1411, 1971
- 202 72 136 RICE JK BINGHAM FW
1. NATURAL WIDTHS OF KINETIC ENERGY LOSS DISTRIBUTIONS IN O(+) - AR AND O(+) - NE COLLISIONS AT 50 TO
200 KEV. 2. CLASSICAL ELASTIC DIFFERENTIAL CROSS SECTIONS FOR ION-ATOM SCATTERING AT KEV ENERGIES
PHYS. REV., 5A, 749 AND 2134, 1972
- 202 72 137 RILEY ME
SENSITIVITY OF RAINBOW STRUCTURE IN PROTON-HELIUM ELASTIC SCATTERING TO SMALL CHANGES IN THE
POTENTIAL SURFACE
PHYS. REV., 4A, 151, 1971
- 202 72 138 ROL P WENDELL K
INVESTIGATION OF THE INTERACTIONS OF IONS AND NEUTRAL ATOMS AND MOLECULES

AD-734 065, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151,
1971
- 202 72 139 ROSENTHAL H
NONADIABATIC EFFECTS IN SLOW ATOMIC COLLISIONS. 1. HE(+) - HE
PHYS. REV., 4A, 1030, 1971
- 202 72 140 ROTENBERG M
OPTICAL POTENTIAL FOR THE ROTATIONAL EXCITATION OF DIATOMIC MOLECULES BY ATOMS
PHYS. REV., 4A, 220, 1971
- 202 72 141 ROTHENBERG S SCHAEFER HF
SELF-CONSISTENT FIELD POTENTIAL ENERGY SURFACE IN THREE DIMENSIONS FOR CL + H₂ & CLH + H CHEMICAL
REACTION
CHEM. PHYS. LETT., 10, 565, 1971
- 202 72 142 SARIS FW
CHARACTERISTIC X-RAY PRODUCTION IN HEAVY ION-ATOM COLLISIONS
PP 181-99 OF PHYSICS OF ELECTRONIC AND ATOMIC COLLISIONS, VII ICPEAC, 1971. NORTH-HOLLAND PUBLISHING
CO., AMSTERDAM, 1972. 55 REFERENCES
- 202 72 143 SARIS FW VAN DER WEG WF TAWARA H LAUBERT R
RADIATIVE TRANSITIONS BETWEEN QUASIMOLECULAR LEVELS DURING ENERGETIC ATOM-ATOM COLLISIONS
PHYS. REV. LETT., 28, 717, 1972
- 202 72 144 SAVOLA WJ
SCATTERING OF HELIUM BY HELIUM AT INCIDENT BEAM ENERGIES FROM 300 TO 3000 EV
THESIS, UNIV. OF CONNECTICUT, STORRS, 1971. 102P. UNIV. MICROFILMS ORDER NO. 71-29,907
- 202 72 145 SCHOETTLE J TOENNIES JP
EXPERIMENTAL EVIDENCE FOR A SPECTATOR MECHANISM IN THE DISSOCIATION OF H₂ BY SINGLE COLLISIONS WITH
LI(+)
CHEM. PHYS. LETT., 12, 615, 1972
- 202 72 146 SCHOONOVER DR
ABSOLUTE EXCITATION CROSS SECTIONS OF HE(+) IN 20 TO 100 KEV HE(+) - HE COLLISIONS USING ENERGY LOSS
SPECTROMETRY
THESIS, UNIV. OF MISSOURI, ROLLA, MO., 1970. 68P. UNIV. MICROFILMS ORDER NO. 71-12,326
- 202 72 147 SCOTT JE
SOME ASPECTS OF ATOMIC AND MOLECULAR BEAMS PRODUCED BY AERODYNAMIC ACCELERATION
AD-712 920, VIRGINIA UNIV., CHARLOTTESVILLE, DEPT. OF AEROSPACE ENGINEERING AND ENGINEERING PHYSICS,
14P

- 202 72 148 SECREST D EASTES W
EFFECTS OF AN ATTRACTIVE WELL POTENTIAL ON THE ATOM-DIATOMIC MOLECULE COLLINEAR COLLISION
J. CHEM. PHYS., 56, 2502, 1972
- 202 72 149 SHIN HK
VIBRATIONAL ENERGY TRANSFER IN THE HYDROGEN MOLECULE-HELIUM ATOM SYSTEM
J. PHYS. CHEM., 75, 4001, 1971
- 202 72 150 SHIPSEY EJ
CALCULATION OF TRANSITION PROBABILITIES FOR COLLINEAR ATOM-DIATOM COLLISIONS WITH NONPAIRWISE INTERACTIONS
J. CHEM. PHYS., 56, 1179, 1972
- 202 72 151 SIDIS V LEFEBVRE-BRION H
A QUASIDIABATIC REPRESENTATION FOR INELASTIC COLLISIONS. APPLICATION TO THE SCATTERING OF HE(+) BY NE
J. PHYS. B, 4, 1040, 1971
- 202 72 152 SINGH R
MOLECULAR BEAM STUDIES OF RELAXATION EFFECTS IN FREE JETS USING A CRYOGENICALLY COOLED SKIMMER
PB-208 938, CALIFORNIA UNIV., BERKELEY, DIV. OF AERONAUTICAL SCIENCES, 159P
- 202 72 153 SISK A PE PARSON JM SCHAFER TP LEE YT
INTERMOLECULAR POTENTIALS FROM CROSSED BEAM DIFFERENTIAL ELASTIC SCATTERING MEASUREMENTS. 3. HE + HE AND NE + NE
J. CHEM. PHYS., 55, 5762, 1971
- 202 72 154 SMIRNOV VA MIKHAILOV AA
INELASTIC COLLISIONS OF HIGHLY EXCITED ATOMS
OPT. SPECTROSC. USSR (ENGL. TRANS.), 30, NO. 5, 525, 1971
- 202 72 155 SMITH K
CALCULATION OF ATOMIC COLLISION PROCESSES
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1971, 226P, 97 REFERENCES
- 202 72 156 STOLTERFOHT N
1. ANGULAR AND ENERGY DISTRIBUTION OF ELECTRONS PRODUCED BY 200 TO 500 KEV PROTONS IN GASES. II. NITROGEN. 2. ENERGY AND ANGULAR DISTRIBUTION OF ELECTRONS EJECTED FROM GAS MOLECULES IONIZED BY PROTONS
1. Z. PHYS., 248, 92, 1971. 2. HMI-8-104, HAHN-WEITNER INSTITUT FUER KERNFORSCHUNG, BERLIN, WEST GERMANY, FEB. 1971, 114P IN GERMAN
- 202 72 157 TANG SB GALLAGHER RJ FENN JB
SOME APPLICATIONS OF MOLECULAR BEAM VELOCITY SPECTROSCOPY TO EVAPORATION AND ENERGY EXCHANGE
AD-732 763, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 202 72 158 TAWARA H
ELECTRON STRIPPING OF GROUND AND METASTABLE STATE HELIUM ATOMS IN HELIUM, NEON, AND ARGON
J. PHYS. SOC. JAPAN, 31, 236, 1971
- 202 72 159 THIELE E KATZ R
COLLISION OF AN ATOM AND A DIATOMIC: THE ADIABATIC APPROXIMATION
J. CHEM. PHYS., 55, 3195, 1971
- 202 72 160 THOMPSON DL

CLASSICAL TRAJECTORY STUDY OF ENERGY TRANSFER IN SOME ATOM-DIATOMIC MOLECULE SYSTEMS
J. CHEM. PHYS., 56, 3870, 1972
- 202 72 161 THOMSON GM SMITH WW RUSSEK A
REPLY TO COMMENT ON FAST ELECTRON-SLOW ELECTRON COINCIDENCE STUDY OF VIOLENT AR(+)-AR COLLISIONS
PHYS. REV., 5A, 2290, 1972
- 202 72 162 TSIEH TP
ROTATIONAL AND VIBRATIONAL EXCITATION OF MOLECULES BY ATOM IMPACT
THESIS, BRIGHAM YOUNG UNIV., PROVO, UTAH, 1971, 95P, UNIV. MICROFILMS ORDER NO. 71-24,303
- 202 72 163 TULLY FP LEE YT
INTERMOLECULAR POTENTIALS FROM CROSSED BEAM DIFFERENTIAL ELASTIC SCATTERING MEASUREMENTS. 6. ATOMS AND DIATOMIC MOLECULES. AR + N2, AR + O2, KR + N2, AND KR + O2
J. CHEM. PHYS., 57, 866, 1972
- 202 72 164 VAN DER MEULEN A
TRAJECTORY CALCULATIONS FOR THE REACTION K + HBR → KBR + H IN THE EV REGION
COMPUT. PHYS. COMMUN., 3, 42, 1972
- 202 72 165 VAN DOP H BOERBOOM AJH LOS J
ENERGY LOSS MEASUREMENTS OF K(+) IONS IN HEAD-ON COLLISIONS WITH HE, H2, AND D2
PHYSICA, 54, 223, 1971
- 202 72 166 VASSIL'EV G BAUDON J RAHMAT G BARAT M
NEW APPARATUS FOR STUDYING EXCITATION IN ION-ATOM COLLISIONS AT LOW ENERGY USING THE ION-PHOTON COINCIDENCE METHOD
REV. SCI. INSTR., 42, 1222, 1971
- 202 72 167 VINOGRADOV AV URNOV AM SHEVEL'KO VP
ORBITAL QUANTUM NUMBER DISTRIBUTION OF HIGHLY EXCITED ATOMS PRODUCED IN COLLISIONS BETWEEN HEAVY PARTICLES
ZH. EKSP. TEOR. FIZ., 60, 2060, 1971 IN RUSSIAN
- 202 72 168 VINOGRADOV AV SHEVEL'KO VP
COLLISIONS BETWEEN FAST HYDROGEN ATOMS AND ALKALI AND INERT GAS TARGETS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1116, 1972, TRANSLATED FROM ZH. TEKH. FIZ., 41, 1419, 1971
- 202 72 169 VOLPI GG
CHEMICAL REACTIONS STUDIED BY CROSSED BEAM TECHNIQUES
AD-734 070, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971

- 202 72 170 WARTELL MA CROSS RJ
INTERPRETATION OF HIGH ENERGY CROSS SECTIONS FOR MOLECULAR SCATTERING
J. CHEM. PHYS., 54, 4519, 1971
- 202 72 171 WATEL G PESNELLE A
MEASUREMENT OF THE CREATION, SCATTERING, AND DESTRUCTION TERMS OF RARE GAS METASTABLE ATOMS OF
THERMAL ENERGY
COMPT. REND., SER. B, 272, 785, 1971 IN FRENCH
- 202 72 172 WEISE HP MITTMANN HU DING A HENGLEIN A
ION SCATTERING. 2. RAINBOW EFFECT IN ELASTIC SCATTERING OF PROTONS BY HELIUM, NEON, AND XENON AND OF
HE(+) BY HELIUM
Z. NATURFORSCH., 26a, 1122, 1971 IN GERMAN
- 202 72 173 WEISHEIT JC
LOW ENERGY ELASTIC AND FINE STRUCTURE EXCITATION SCATTERING OF C(+)((2)P) BY H((2)S)
THESIS, RICE UNIV., HOUSTON, TEXAS, 1971, 124P. UNIV. MICROFILMS ORDER NO. 71-26,372
- 202 72 174 WEISHEIT JC LANE MF
LOW ENERGY ELASTIC AND FINE STRUCTURE EXCITATION SCATTERING OF GROUND STATE C(+) IONS BY HYDROGEN
ATOMS
PHYS. REV., 4A, 171, 1971
- 202 72 175 WHARTON L
DEVELOPMENT OF A MOLECULAR BEAM ACCELERATOR
AD-732 215, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971
- 202 72 176 VOLKEN G
COMPUTATIONAL APPROACH TO THE CONSTRUCTION OF THE OPTICAL POTENTIAL
J. CHEM. PHYS., 56, 2591, 1972
- 202 72 177 YONEZAWA Y FUNED T
SEMICLASSICAL CALCULATION OF THE VIBRATIONAL TRANSITION PROBABILITIES OF DIATOMIC MOLECULES IN
COLLISION. THE EFFECT OF VIBRATIONAL ANHARMONICITY
BULL. CHEM. SOC. JAPAN, 44, 2976, 1971
- 202 72 178 ZAK BD
PRECISION MEASUREMENT OF THE G(J) FACTOR OF THE (41S(3/2) GROUND STATE OF NITROGEN: THE DESIGN,
CONSTRUCTION, AND INITIAL USE OF A SENSITIVE, UNIVERSAL, MOLECULAR BEAM DETECTOR
LBL-8, THESIS, CALIFORNIA UNIV., BERKELEY, AUG. 1971, 133P. LAWRENCE BERKELEY LAB.
- 202 72 179 ZEMBEKOV AA
MECHANISM OF THE REACTION $K + BR_2 \rightarrow K(+) + BR_2(-)$ NEAR THE THRESHOLD
CHEM. PHYS. LETT., 11, 415, 1971
- 202 72 180 ZWALLY HJ CABLE PG
COMPARISON OF THE LANDAU-ZENER THEORY WITH MEASUREMENTS OF ELECTRON CAPTURE IN $B(+) + HE$ COLLISIONS
PHYS. REV., 4A, 2301, 1971
- 210 72 001 ALLEN BJ MACKLIN RL
NEUTRON CAPTURE CROSS SECTIONS OF C(13) AND O(16)
PHYS. REV., 3C, 1737, 1971
- 210 72 002 ALVAREZ RA BERMAN BL LASHER DR PHILLIPS TW FULTZ SC
PHOTONEUTRON CROSS SECTIONS FOR NA(23) AND MG(25)

PHYS. REV., 4C, 1673, 1971
- 210 72 003 BAUER AA KANGILASKI M
HELIUM GENERATION IN STAINLESS STEEL AND NICKEL
J. NUCL. MATER., 42, 91, 1972
- 210 72 004 BENIS CE DRUSCHEL RE HALPERIN J WALTON JR
THERMAL NEUTRON CAPTURE CROSS SECTION AND RESONANCE INTEGRAL FOR 10.7 YEAR KR(85)
NUCL. SCI. ENG., 47, 371, 1972
- 210 72 005 BENZI V D'ORAZI R REFFO G VACCARI M
FAST NEUTRON RADIATIVE CAPTURE CROSS SECTIONS OF STABLE NUCLEI WITH Z FROM 29 TO 79 INCLUSIVE
RT-FI-(72)6, COMITATO NAZIONALE PER L'ENERGIE NUCLEARE, ROME, ITALY, FEB. 1972, 335P
- 210 72 006 BINDER K
CROSS SECTION FOR ULTRACOLD NEUTRONS. 1. THEORY OF MAGNETIC SCATTERING
Z. NATURFORSCH., 26a, 432, 1971
- 210 72 007 BLOCK RC KAUSHAL NM HOCKENBURY RW
IRON FILTERED NEUTRON BEAMS: A NEW APPROACH TO PRECISION TIME-OF-FLIGHT CROSS SECTION MEASUREMENTS
COO-3058-20, RENSSELAER POLYTECHNIC INST., TROY, NEW YORK, 1972, 4P. CONF-720901-10, FROM MEETING ON
NEW DEVELOPMENTS IN REACTOR PHYSICS AND SHIELDING CALCULATIONS, KIAMESHA LAKE, N.Y., SEPT. 12,
1972
- 210 72 008 BRADLEY JG
MEASUREMENT OF THE THERMAL NEUTRON CAPTURE CROSS SECTION AND RESONANCE CAPTURE CROSS SECTION OF
KR(80)
THESIS, UNIV. OF MINNESOTA, MINNEAPOLIS, 1970, 66P. UNIV. MICROFILMS ORDER NO. 71-18,691
- 210 72 009 BRADLEY JG JOHNSON WH
THERMAL NEUTRON CAPTURE CROSS SECTION AND RESONANCE CAPTURE INTEGRAL OF KRYPTON-80
NUCL. SCI. ENG., 47, 151, 1972
- 210 72 010 CABELL MJ WILKENS M
THERMAL NEUTRON CAPTURE CROSS SECTION OF U(233)
J. INORG. NUCL. CHEM., 33, 3972, 1971
- 210 72 011 CARLSON AD FRICKE MP FRIESENHANN SJ
RHODIUM NEUTRON CAPTURE CROSS SECTION FROM 1 EV TO 1 MEV
TRANS. AMER. NUCL. SOC., 14, 352, 1971. CONF-710606, FROM 17TH ANNUAL MEETING OF THE AMERICAN
NUCLEAR SOCIETY, BOSTON, MASS., JUNE 13, 1971
- 210 72 012 CHRIEN RC
REPORTS TO THE AEC NUCLEAR CROSS SECTIONS ADVISORY COMMITTEE
NCSAC-36, MEETING AT DUKE UNIV., DURHAM, NORTH CAROLINA ON MAY 4-6, 1971, 238P. BNL-50298,
EANDC(US)-156(U), INDC(USA)-30(U), CONF-710526

- 210 72 013 CIERJACKS S FORTI P KOPSCH D KROPP L NEBE J
UNSELD H
HIGH RESOLUTION TOTAL NEUTRON CROSS SECTIONS FOR: 1. SI, CR, AND NI BETWEEN 0.5 AND 30 MEV. 2. NA, CL, K, V, MN, AND CO BETWEEN 0.5 AND 30 MEV
1. EURFNR-591(SUPPL.1), OCT. 1968, 44P, KFK-1000(SUPPL.1), EUR-3963(SUPPL.1), EANDC(E)-111-U(SUPPL.1), 2. EURFNR-591(SUPPL.2), FEB. 1969, 85P, KFK-1000(SUPPL.2), EUR-3963(SUPPL.2), EANDC(E)-111-U(SUPPL.2), KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FUER ANGEWANDTE KERNPHYSIK, WORK PERFORMED UNDER UNITED STATES-EURATOM FAST REACTOR EXCHANGE PROGRAM
- 210 72 014 CRANSTON FP WHITE DH
THERMAL NEUTRON CAPTURE CROSS SECTIONS IN CALCIUM
NUCL. PHYS., A169, 95, 1971
- 210 72 015 DEVANEY JJ FOSTER DG
EVALUATION OF THE TOTAL CROSS SECTION FOR TUNGSTEN
LA-4928, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, JUNE 1972, 10P
- 210 72 016 DILG W VONACH HK
PRECISE MEASUREMENT OF THE TOTAL REACTION CROSS SECTIONS OF BISMUTH, LEAD, SILICON, AND CARBON FOR 130 EV NEUTRONS
Z. NATURFORSCH., 26A, 442, 1971
- 210 72 017 DILG W VONACH HK
AVERAGE TOTAL NEUTRON CROSS SECTIONS OF HEAVY ELEMENTS AT 2.7 KEV
PP 327-34 OF STATISTICAL PROPERTIES OF NUCLEI, GARG, J. 8, (ED.), PLENUM PUBLISHING CORP., NEW YORK, 1972, FROM CONFERENCE HELD AT ALBANY, NEW YORK, AUG. 23, 1971
- 210 72 018 DOBROZIENSKY R PICHLMAYER F VIENBOECK FP
MASS SPECTROMETRIC DETERMINATION OF NEUTRON CAPTURE CROSS SECTIONS OF RARE EARTH ISOTOPES
J. MASS SPECTRY, ION PHYS., 6, 435, 1971 IN GERMAN
- 210 72 019 DYUMIN AI KAMINKER DM POPOVA GN
COMPLETE NEUTRON SECTIONS FOR TITANIUM, CHROMIUM, AND COPPER ISOTOPES
IZV. AKADE. NAUK SSSR, SER. FIZ., 36, 852, 1972 IN RUSSIAN
- 210 72 020 FAROOQUE M ENAYETULLAH M DAS P
TOTAL NEUTRON CROSS SECTION OF HO
AEC/EP-23, ATOMIC ENERGY CENTRE, DACC, PAKISTAN, JULY 1971, 9P
- 210 72 021 FASOLI U TONIOLO D ZAGO G ZUFFI L
TOTAL NEUTRON CROSS SECTION FOR TH(232) IN THE ENERGY REGION 1.5 TO 8.5 MEV
CEC-70-1, COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, BOLOGNA, ITALY, CENTRO DI CALCOLO, FEB. 1970, 17P
- 210 72 022 FANCETT LR
NEUTRON CAPTURE CROSS SECTIONS IN THE KEV REGION FOR SM(154), GD(160), DY(164), AND HO(165)
THESIS, VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG, VA., 1971, 85P, UNIV. MICROFILMS
ORDER NO. 71-28,931
- 210 72 023 FOWLER JL JOHNSON CH HAAS FX FEEZEL RM
NEUTRON TOTAL CROSS SECTIONS OF O(16) AND CA(40)
CONF-710301(VOL.1), PP 179-83, OAK RIDGE NATIONAL LAB., TENN. FROM 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY, KNOXVILLE, TENN., MARCH 15, 1971
- 210 72 024 FRIESENHAHN SJ LOPEZ WM FRICKE WP COSTELLO DG CARLSON AD
NEUTRON CAPTURE CROSS SECTIONS OF MOLYBDENUM, TANTALUM, AND U(238)

N70-41999, FINAL REPORT, GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIF., JUNE 1970, 94P.
NASA-CR-72745, GA-10194
- 210 72 025 FULTZ SC ALVAREZ RA BERMAN BL
PHOTONEUTRON CROSS SECTIONS FOR MG(24), MG(26), AND NATURAL MAGNESIUM
PHYS. REV., 4C, 149, 1971
- 210 72 026 GARG JB RAINWATER J HAVENS WW
NEUTRON RESONANCE SPECTROSCOPY, 7, TI, FE, AND NI
PHYS. REV., 3C, 2447, 1971
- 210 72 027 GHORAI SK COOPER JR MOORE JO ALFORD WL
SOME (N,P) CROSS SECTIONS OF TI(46,47,48)
J. NUCL. ENERGY, 25, 319, 1971
- 210 72 028 GOOD WM
REPORT TO THE AEC NUCLEAR CROSS SECTION ADVISORY COMMITTEE
ORNL-TM-3616, OAK RIDGE NATIONAL LAB., TENN., OCT. 1971, 50P
- 210 72 029 HAEGGBLOM M
ADJUSTMENT OF NEUTRON CROSS SECTION DATA BY A LEAST SQUARE FIT OF CALCULATED QUANTITIES TO EXPERIMENTAL RESULTS. 1. THEORY
AE-422, AKTIEBOLAGET ATOMENERGI, STUDSVIK, SWEDEN, MAY 1971, 28P
- 210 72 030 HANKLA AK FINK RW HAMILTON JH
NEUTRON ACTIVATION CROSS SECTIONS AT 14.4 MEV FOR SOME NATURALLY OCCURRING HEAVY ELEMENTS IN THE REGION OF Z FROM 76 TO 82 INCLUSIVE
NUCL. PHYS., A180, 157, 1972
- 210 72 031 HARVEY JA
KEV NEUTRON TOTAL CROSS SECTION MEASUREMENTS AT ORELA
CONF-720901-4, OAK RIDGE NATIONAL LAB., TENN. 13P, FROM MEETING ON NEW DEVELOPMENTS IN REACTOR PHYSICS AND SHIELDING CALCULATIONS, KIAMESHA LAKE, N.Y., SEPT. 12, 1972
- 210 72 032 HASAN SS PRASAD R SEGHAL ML
14.8 MEV NEUTRON CROSS SECTIONS FOR ENRICHED ISOTOPES OF SE(82), MO(92), SN(117), TE(128), AND
TE(130)
NUCL. PHYS., A181, 101, 1972
- 210 72 033 HELLSTROM J
FAST NEUTRON RADIATIVE CAPTURE CROSS SECTIONS FOR SOME IMPORTANT STANDARDS FROM 30 KEV TO 1.5 MEV
AE-443, AKTIEBOLAGET ATOMENERGI, STUDSVIK, SWEDEN, DEC. 1971, 23P

- 210 72 034 HOWERTON RJ DOYAS RJ MICHELS TC PERKINS ST
EVALUATED NUCLEAR CROSS SECTION LIBRARY
UCRL-80400(VOL.4), CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., APRIL 1971. 171P
- 210 72 035 JACKSON HE
REPORTS TO THE AEC NUCLEAR CROSS SECTIONS ADVISORY COMMITTEE MEETING AT BROOKHAVEN NATIONAL
LABORATORY, NEW YORK, NOVEMBER 17-19, 1971
NCSAC-42, ARGONNE NATIONAL LAB., ILL. 280P, EANDC(US)-165(U), INDC(USA)-36(U), CONF-711137
- 210 72 036 JENKINS JD
THERMAL NEUTRON CROSS SECTION FOR MN(54)
TRANS. AMER. NUCL. SOC., 14, 353, 1971, FROM 17TH ANNUAL MEETING OF THE AMERICAN NUCLEAR SOCIETY,
BOSTON, MASS., JUNE 13, 1971, CONF-710606
- 210 72 037 KALEBIN SM ADIB M RUKOLAINEN GV
TOTAL NEUTRON CROSS SECTION OF RA(226) AT ENERGIES UP TO 300 EV
YADERN, FIZ., 14, 22, 1971, IN RUSSIAN
- 210 72 038 KANDA K CHATANI H SHIBATA T
MEASUREMENTS OF THE AVERAGED NEUTRON CROSS SECTION OF SOME THRESHOLD REACTIONS FOR FISSION NEUTRONS
ANNU. REP. RES. REACTOR INST., KYOTO UNIV., 4, 94, 1971
- 210 72 039 KANDA Y NAKASIMA R
EVALUATION OF SOME FAST NEUTRON CROSS SECTION DATA
JAERI-1207, JAPAN ATOMIC ENERGY RESEARCH INST., TOKYO, JULY 1971. 20P
- 210 72 040 KIROUAC GJ
CALCULATED THERMAL (N,ALPHA) CROSS SECTION FOR NI(59)
NUCL. SCI. ENG., 46, 427, 1971
- 210 72 041 LANDON HM
PRESENT STATUS OF STANDARDS
PP 528-42 OF CONF-710301(VOL.2), NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. FROM 3RD CONFERENCE
ON NEUTRON CROSS SECTIONS AND TECHNOLOGY, KNOXVILLE, TENN., MARCH 15, 1971
- 210 72 042 LANDRUM JH NAGLE RJ LINDNER M
THERMAL NEUTRON CAPTURE CROSS SECTION OF NP(235)
UCRL-S1263, CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., AUG. 1972. 5P
- 210 72 043 MAGOA MT
NEUTRON CROSS SECTIONS OF EXCITED NUCLEI
IFA-CRD-35-1968, INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1968. 12P
- 210 72 044 MATEEVA A YANEVA N
INTERMEDIATE STRUCTURE IN THE CROSS SECTION OF U(235) AND PU(239) FISSION BY EPITHERMAL NEUTRONS
JINR-P3-6239, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NEUTRON PHYSICS, 1971. 8P IN
RUSSIAN
- 210 72 045 MCCROSSON FJ FINCH DR OLSON EC
TESTING OF ENDF/B-THERMOS CROSS SECTIONS FOR H2O, D2O, C, ZRH2, (C2H4)X, BE, BEO, C6H6, AND UO2
DP-1276, DU PONT DE NEMOURS (E.I.) AND CO., AIKEN, S.C. SAVANNAH RIVER LAB., OCT. 1971. 46P.
ENDF-158
- 210 72 046 MIYANO K
SLOW NEUTRON CAPTURE CROSS SECTIONS FOR THE LONG LIVED ACTIVITIES ER(171) AND TM(171)
J. PHYS. SOC. JAPAN, 31, 1304, 1971
- 210 72 047 MOORE MS
HIGH RESOLUTION NEUTRON CROSS SECTIONS
PP 55-79 OF STATISTICAL PROPERTIES OF NUCLEI, GARG, J.B. (ED.), PLENUM PUBLISHING CORP., NEW YORK,
1972, FROM CONFERENCE HELD AT ALBANY, N. Y., AUG. 23, 1971, LA-DC-12705, CONF-710814-2, 1971. 32P
- 210 72 048 NO AUTHOR
NEUTRON STANDARDS AND FLUX NORMALIZATION, PROCEEDINGS OF A SYMPOSIUM HELD AT ARGONNE NATIONAL
LABORATORY, ARGONNE, ILLINOIS, OCTOBER 21-23, 1970
CONF-701002, ARGONNE NATIONAL LAB., ILL., AUG. 1971. 52P. 43 PAPERS
- 210 72 049 NO AUTHOR
PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, MADURAI, DECEMBER 27-30, 1970,
VOLUME II, NUCLEAR PHYSICS
CONF-701219(VOL.2), DEPARTMENT OF ATOMIC ENERGY, BOMBAY, INDIA, PHYSICS COMMITTEE, 1970. 698P
- 210 72 050 NO AUTHOR
PROCEEDINGS OF THE 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY, UNIVERSITY OF TENNESSEE,
MARCH 15-17, 1971, VOLUMES 1 AND 2
CONF-710301(VOL.1), 498P, 60 PAPERS, (VOL.2), 442P, 55 PAPERS, OAK RIDGE NATIONAL LAB., TENN., AUG.
1971
- 210 72 051 NO AUTHOR
NEUTRON SOURCES AND APPLICATIONS, PROCEEDINGS OF THE AMERICAN NUCLEAR SOCIETY NATIONAL TOPICAL
MEETING, AUGUSTA, GEORGIA, APRIL 19-21, 1971, VOLUMES 2 AND 3
CONF-710402(VOL.2), SESSIONS I AND II, 289P, 40 PAPERS, (VOL.3), SESSIONS III AND IV, 173P, 19
PAPERS, DU PONT DE NEMOURS (E.I.) AND CO., AIKEN, SOUTH CAROLINA, SAVANNAH RIVER LAB., APRIL 1971
- 210 72 052 NO AUTHOR
PROCEEDINGS OF 3RD INTERNATIONAL SYMPOSIUM ON RESEARCH MATERIALS FOR NUCLEAR MEASUREMENTS,
GATLINBURG, TENNESSEE, OCTOBER 5-8, 1971
CONF-711002, OAK RIDGE NATIONAL LAB., TENN. 322P, 24 PAPERS
- 210 72 053 NO AUTHOR
ANNUAL PROGRESS REPORT, 1970
EUR-4734, EUROPEAN ATOMIC ENERGY COMMUNITY, GEEL, BELGIUM, CENTRAL NUCLEAR MEASUREMENTS BUREAU, AUG.
1971. 66P, 43 REFERENCES
- 210 72 054 POORTMANS F GIRLEA I FABRY A
NEUTRON CROSS SECTIONS FOR EU(151) BELOW 1 EV
NUCL. PHYS., A172, 489, 1971
- 210 72 055 PRIESMEYER HG JUNG HH
TOTAL NEUTRON CROSS SECTION MEASUREMENTS ON STABLE RUTHENIUM ISOTOPES 99, 100, 101, 102, AND 104
PP 688-94 OF CONF-710301(VOL.2), FROM 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY,
KNOXVILLE, TENN., MARCH 15, 1971

- 210 72 056 PRIESMEYER HG JUNG MH
TOTAL CROSS SECTION OF RUTHENIUM ISOTOPES 99, 100, 101, 102, AND 104 IN THE RESONANCE REGION
ATOMKERNENERGIE, 19, NO. 2, 111, 1972 IN GERMAN
- 210 72 057 RUSCHE BC
NEUTRON CROSS SECTIONS OF THE TRANSPLUTONIUM NUCLIDES
TRANS. AMER. NUCL. SOC., 14, 344, 1971, FROM 17TH ANNUAL MEETING OF THE AMERICAN NUCLEAR SOCIETY,
BOSTON, MASS., JUNE 13, 1971, CONF-710606
- 210 72 058 RYMES TB ROBERTSON JC
AU(197) (N,GAMMA) AU(198) CROSS SECTION AT 22.8 KEV
J. NUCL. ENERGY, 25, 557, 1971
- 210 72 059 SALAITA GN
ABSOLUTE NEUTRON CROSS SECTIONS FOR THE PRODUCTION OF THE NA(24) ISOMER FROM MAGNESIUM AND ALUMINUM
NUCL. PHYS., A170, 193, 1971
- 210 72 060 SANTRY DC WERNER RD
EFFECTIVE NEUTRON CAPTURE CROSS SECTION OF CD(58)
PP 757-63 OF CONF-710301(VOL.2), FROM 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY,
KNOXVILLE, TENN., MARCH 15, 1971
- 210 72 061 SCHMITTROTH FA
THEORETICAL CALCULATIONS OF FAST NEUTRON CAPTURE CROSS SECTIONS
HEDL-TME-71-106, MANFORD ENGINEERING DEVELOPMENT LAB., RICHLAND, WASH., AUG. 1971, 50P
- 210 72 062 SCHWARTZ RB HEATON HT SCHRACK RA
HIGH ACCURACY TOTAL CROSS SECTION MEASUREMENTS WITH THE NBS LINAC
PP 377-84 OF CONF-701002, FROM SYMPOSIUM ON NEUTRON STANDARDS AND FLUX NORMALIZATION, ARGONNE, ILL.,
OCT. 21, 1970
- 210 72 063 SIMPSON DD SIMPSON FB HARVEY JA SLAUGHTER GG BENJAMIN RW
AHLFELD CE
TOTAL NEUTRON CROSS SECTION OF AM(243) FROM 0.5 TO 1000 EV
ANCR-1060, AEROJET NUCLEAR CO., IDAHO FALLS, IDAHO, MARCH 1972, 95P
- 210 72 064 SLUCHEVSKAYA VM
EFFECTIVE CROSS SECTIONS OF (N,2N) REACTIONS
PP 81-113 OF BYULLETEN' INFORMATSIONNOGO TSENTRA PO YADERNYM DANNYM, LEIPUNSKII, A.I. (ED.),
ATOMIZDAT, MOSCOW, 1968, IN RUSSIAN, 67 REFERENCES, ALSO PP 42-62 OF JPRS-54305, TRANSLATED FROM
BYULL. TSENTRA YADERN. DANNYM, NO. 6, 215-35, 1969
- 210 72 065 SOROKIN YI KHRUSHCH VA YUREV BA
PHOTONEUTRON CROSS SECTIONS FOR TIN ISOTOPES WITH A = 114, 116, 117, 119, 122, AND 124
IZV. AKAD. NAUK SSSR, SER. FIZ., 36, 180, 1972 IN RUSSIAN
- 210 72 066 STEPHENSON TE FERRER AM
PARAMETRIC FIT OF THE NEUTRON CROSS SECTION OF HOLMIUM
NUCL. SCI. ENG., 46, 266, 1971
- 210 72 067 TELLIER H NEWSTEAD CM
MEASUREMENT AND ANALYSIS OF TOTAL CROSS SECTION OF MO, TM, AND STABLE ISOTOPES OF TE AND ND
PP 660-7 OF CONF-710301(VOL.2), FROM 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY,
KNOXVILLE, TENN., MARCH 15, 1971
- 210 72 068 THIRUMALA RAD EV RAMA RAD J KONDAIAH E

NEUTRON CAPTURE CROSS SECTIONS AT 25 KEV
J. PHYS. A, 5, 468, 1972
- 210 72 069 THOMPSON MC HYDER ML REULAND RJ
THERMAL NEUTRON CROSS SECTIONS AND RESONANCE INTEGRALS FOR CM(244) THROUGH CM(248)
J. INORG. NUCL. CHEM., 33, 1553, 1971
- 210 72 070 TRUESTEDT WD
ABSOLUTE DETERMINATION OF THE COHERENT SCATTERING AMPLITUDE FOR SULFUR AND THE TOTAL REACTION CROSS
SECTION FOR SUBTHERMAL NEUTRONS
Z. NATURFORSCH., 26A, 400, 1971 IN GERMAN
- 210 72 071 UTTLEY CA SOWERBY MG PATRICK BM RAE ER
REVIEW OF THE DATA ON THE LI(6) CROSS SECTIONS BELOW 1.7 MEV
PP 551-9 OF CONF-710301(VOL.2), FROM 3RD CONFERENCE ON NEUTRON CROSS SECTIONS AND TECHNOLOGY,
KNOXVILLE, TENN., MARCH 15, 1971
- 210 72 072 VEREBNYI VP VLASOV MF KOLOTYI VV
NEUTRON CROSS SECTION OF ERBIUM ISOTOPES
PP 5-19 OF BYULLETEN' INFORMATSIONNOGO TSENTRA PO YADERNYM DANNYM, LEIPUNSKII, A.I. (ED.),
ATOMIZDAT, MOSCOW, 1968, IN RUSSIAN
- 220 72 001 AKATSUKA Y GOTO S NOSHIRO M YAMAGISHI R
DATA PROCESSING SYSTEM BY COMPUTER FOR GC/MS, 2, IDENTIFICATION OF MASS SPECTRA IN A CATALOG
MASS SPECTRY, JAPAN, 19, 235, 1971 IN JAPANESE
- 220 72 002 ANDERSSSEN RS OSBORNE MR
DATA REPRESENTATION, PROCEEDINGS OF A SEMINAR, CANBERRA, AUSTRALIA, DECEMBER 10, 1969
BOOK, UNIV. OF QUEENSLAND PRESS, ST. LUCIA, AUSTRALIA, 1970, 120P, 13 PAPERS, CONF-691231
- 220 72 003 ARIMURA M YOSHIKAWA Y
DETECTION OF HIGH SPEED NEUTRALS
MASS SPECTRY, JAPAN, 19, 328, 1971 IN ENGLISH
- 220 72 004 ARRIENS PA
DATA ACQUISITION AND CONTROL OF MASS SPECTROMETERS USED FOR ROCK AGE DETERMINATION
PP 124-34 OF DATA ACQUISITION AND REAL-TIME SYSTEMS, LAWRENCE, D.E. (ED.), UNIV. OF QUEENSLAND
PRESS, ST. LUCIA, AUSTRALIA, 1971, FROM SEMINAR HELD AT CANBERRA, AUSTRALIA, DEC. 9, 1970
- 220 72 005 AUER RE
DATA ACQUISITION SYSTEM WITH ISOLATED OUTPUT VOLTAGE FOR ACQUIRING EVENTS VS VOLTAGE SPECTRA
SC-RR-710546, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, SEPT. 1971, 19P

2

- 220 72 006 BAKER J
QUANTITATIVE MODELING OF HUMAN PERFORMANCE IN INFORMATION SYSTEMS
AD-746 096. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 220 72 007 BERTRAND G
AUTOMATIC CONTROL AND RECORDING SYSTEM FOR AN IRONLESS PIROOT2 MAGNETIC SPECTROMETER
FRNC-TN-268. THESIS. GRENOBLE UNIV., FRANCE, 1972. 129P IN FRENCH
- 220 72 008 BIGGS F AMOS DE
NUMERICAL SOLUTIONS OF INTEGRAL EQUATIONS AND CURVE FITTING
SC-RR-710212. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, SEPT. 1971. 135P
- 220 72 009 BOSIA G MARANGONI G MARINGELLI M NAVARRA G
ISOCOM TV CAMERA-MAGNETIC TAPE RECORDER SYSTEM FOR THE ANALYSIS OF FAST OSCILLOSCOPE TRACES
NUCL. INSTRUM. METHODS, 105. 117, 1972
- 220 72 010 BOURKE JB LOFTUS G LISK DJ
PESTICIDE RESIDUE DATA INFORMATION RETRIEVAL SYSTEM
J. AGR. FOOD CHEM., 20. 1275, 1972
- 220 72 011 BRADY LE
LABORATORY COMPUTER ANALYSIS OF MASS SPECTROMETRIC METASTABLE ION SIGNALS
J. CHEM. EDUC., 48. 469, 1971
- 220 72 012 BRIGGS P DIX D GLOVER D KLEINMAN R
A MULTIINSTRUMENT DATA ACQUISITION SYSTEM FOR USE WITH MASS SPECTROMETRY
AMER. LAB., 4. NO. 9. 57, 1972
- 220 72 013 BRUN JC PICARD F SELLEM R
A.R.I.E.L. ON-LINE EXPERIMENTAL DATA ACQUISITION AND REDUCTION
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., 19. 654, 1972
- 220 72 014 BUCHANAN BG LEDERBERG J FEIGENBAUM EA
1. THE HEURISTIC DENDRAL PROGRAM FOR EXPLAINING EMPIRICAL DATA. 2. A HEURISTIC PROGRAMMING STUDY OF
THEORY FORMATION IN SCIENCE
AD-730 506 AND AD-731 729. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE,
SPRINGFIELD, VA. 22151. 1971
- 220 72 015 BUCHANAN BG
AN APPLICATION OF ARTIFICIAL INTELLIGENCE TO MASS SPECTROMETRY
INFORMATION, 4. NO. 1. 37, 1972
- 220 72 016 BUCHS A DELFINA A DJERASSI C FEIGENBAUM EA DUFFIELD AM
THE APPLICATION OF ARTIFICIAL INTELLIGENCE IN THE INTERPRETATION OF LOW RESOLUTION MASS SPECTRA
AD-745 820. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1972
- 220 72 017 BUFFEREAU M LAVAUD M
COMPUTER HANDLING OF DATA IN ANALYTICAL CHEMISTRY. APPLICATION TO OPTICAL SPECTROGRAPHY
CEA-R-4211. COMMISSARIAT A L'ENERGIE ATOMIQUE, BRUYERES-LE-CHATEL, FRANCE. CENTRE D'ETUDES, 1971.
45P IN FRENCH
- 220 72 018 BYRD JS
DIGITAL DATA ACQUISITION AND CONTROL FOR A MASS SPECTROMETER
DP-1175. DU PONT DE NEMOURS (E.I.) AND CO., AIKEN, S.C. SAVANNAH RIVER LAB., OCT. 1971. 11P
- 220 72 019 CAMPBELL JA
COMPARATIVE SURVEY OF PROGRAMMING LANGUAGES
ORO-3992-71. TEXAS UNIV., AUSTIN, CENTER FOR PARTICLE THEORY, OCT. 1971. 135P. CPT-121
- 220 72 020 CERVELLATI R GIOMI A ZAGARA M ZIPPEL F
EXTRACTION OF A PERIODIC SIGNAL FROM NOISE
RT-EL-(70)8. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY, JAN. 1971. 33P IN ITALIAN
- 220 72 021 CHALLONER AD
A HIGH SPEED DATA ACQUISITION SYSTEM FOR A TIME-OF-FLIGHT MASS SPECTROMETER
PP 120-1 OF 1971 INTERNATIONAL ELECTRICAL AND ELECTRONICS CONFERENCE, TORONTO, ONTARIO, CANADA, OCT.
4-6, 1971
- 220 72 022 CHEVAL JL
DEVELOPMENT OF A MEANS OF DIALOGUE IN ACQUIRING DATA AT THE LEVEL OF A DISPLAY UNIT
LYCEN-7121. THESIS. LYON UNIV., FRANCE, MAY 1971. 72P IN FRENCH. INSTITUT DE PHYSIQUE NUCLEAIRE
- 220 72 023 CHRISTIE WH MCKOWN HS
COMPUTERIZED ACQUISITION AND PROCESSING OF ISOTOPIC MASS SPECTRA
CHEM. INSTRUM., 3. NO. 2, 99, 1971
- 220 72 024 CLARE AJ WALKER WM
HIGH SPEED, MULTICHANNEL DATA ACQUISITION SYSTEM USING A SMALL DIGITAL COMPUTER
RD-B/N-1683. CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND. BERKELEY NUCLEAR LABS., MAY
1970. 19P
- 220 72 025 CLOSE E
EXTENDED SET OF FORTRAN INPUT/OUTPUT ROUTINES
UCRL-19463. CALIFORNIA UNIV., BERKELEY, LAWRENCE RADIATION LAB., FEB. 1971. 59P
- 220 72 026 COLEMAN PR
TRACE: AN INFORMATION RETRIEVAL PROGRAM FOR TREE-STRUCTURED DATA
ORNL-4709. OAK RIDGE NATIONAL LAB., TENN., OCT. 1971. 73P
- 220 72 027 COTTRELL WB BUCHANAN JR
NSIC COMPUTERIZED INFORMATION TECHNIQUES
ORNL-NSIC-92. OAK RIDGE NATIONAL LAB., TENN., AUG. 1971. 29P
- 220 72 028 COUTANT JE MCLAFFERTY FW
METASTABLE ION CHARACTERISTICS. 20. AUTOMATED ACQUISITION OF METASTABLE ION DATA USING AN ON-LINE
COMPUTER WITH FEEDBACK CONTROL
J. MASS SPECTRY, ION PHYS., 8. 323, 1972

- 220 72 029 CRAM SP
DEDICATED COMPUTERS IN CHEMISTRY.
RES./DEVELOP., 23, NO. 4, 30, 1972.
- 220 72 030 CRAWFORD LR MORRISON JD
COMPUTER METHODS IN ANALYTICAL MASS SPECTROMETRY. DEVELOPMENT OF PROGRAMS FOR ANALYSIS OF LOW
RESOLUTION MASS SPECTRA
ANAL. CHEM., 43, 1790, 1971.
- 220 72 031 CREASER RP ENGLISH RP KINSEY JL
LINEAR LEAST SQUARES FITTING OF MOLECULAR BEAM DIFFERENTIAL CROSS SECTION DATA USING SPINE FUNCTIONS
COO-3129-32, BROWN UNIV., PROVIDENCE, R.I., METCALF CHEMICAL LAB. AND MASSACHUSETTS INST. OF TECH.,
CAMBRIDGE, DEPT. OF CHEMISTRY, 1971, 32P
- 220 72 032 CROW NB ELCHESSEN DR
MONITORING AND RETRIEVING LITERATURE SEARCHES USING A GENERALIZED FILE MANAGEMENT SYSTEM
UCRL-73108, CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., JUNE 1971, 12P
- 220 72 033 DEGENHARDT KH FREVERT L WOLETZ W
MODULAR PROGRAMMING SYSTEM FOR PROGRAMMING EXPERIMENTS ON THE PDP-9
CERN-TRANS-71-18, TRANSLATED FOR CERN, GENEVA, SWITZERLAND, FROM REPORT HMI-8-96, 114P
- 220 72 034 DOBROZEMSKY R
EXPERIENCE WITH A COMPUTER PROGRAM FOR RESIDUAL GAS ANALYSERS
SGAE-PH-112/1971, OESTERREICHISCHE STUDIENGESellschaft FUER ATOMENERGIE G.M.B.H., SEIBERSDORF, 1971,
15P
- 220 72 035 DUBROVSKII OA NATALIN LA SMIRNOV VI
SYSTEM FOR TRANSMITTING EXPERIMENTAL DATA
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 441, 1971, TRANSLATED FROM PRIB. TEKH. EKSP., 14, NO.
2, 98, 1971
- 220 72 036 DUCKWORTH FC
ON THE LIMITATIONS OF THE METHOD OF LEAST SQUARES FOR THE TREATMENT OF CERTAIN TYPES OF DATA
RD-B/N-1971, CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND, BERKELEY NUCLEAR LABS., JULY
1971, 16P
- 220 72 037 EDWARDS AL
1. CORD, RECORD: SORTING OF TABULAR DATA. 2. SLOPPY: LEAST SQUARES SLOPE FINDING IN TABLES OF
WEIGHTED DATA. 3. FITTER, FUNGUS, FUNNY: LINEAR LEAST SQUARES CURVE FITTING OF WEIGHTED TABULAR
DATA. 4. SHAKER: A COMPUTER PROGRAM FOR NUMERICAL ANALYSIS OF WEIGHTED TABULAR DATA
1. CIC-PI-8, JAN. 1971, 32P. 2. UCID-30009, APRIL 1971, 10P. 3. UCID-30017, JULY 1971, 23P. 4.
UCRL-51210, JAN. 1972, 262P. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB.
- 220 72 038 EGGER JP THIESSEN HA
COMPUTER CONTROL OF EPICS BEAM LINE AND SPECTROMETER
LA-5092, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, NOV. 1972, 9P
- 220 72 039 ELKINS JC
SELECTING A COMPUTER SYSTEM FOR LABORATORY AUTOMATION
AMER. LAB., 4, NO. 9, 37, 1972
- 220 72 040 EMMETT MB
INTRIGUE-II-C: AN IBM-360 SUBROUTINE PACKAGE FOR MAKING LINEAR, LOGARITHMIC, AND SEMILOGARITHMIC
GRAPHS USING EITHER THE CALCOMP PEN-AND-INK OR CATHODE-RAY-TUBE PLOTTER
DRNL-TM-3947, OAK RIDGE NATIONAL LAB., TENN., OCT. 1972, 7P
- 220 72 041 ENGLISH JC
FOCAL USED IN A DATA ACQUISITION AND CONTROL SYSTEM: ADVANTAGES AND DISADVANTAGES
UCRL-73710, CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., APRIL 1972, 5P. CONF-720816-2.
FROM DIGITAL EQUIPMENT COMPUTER USERS SOCIETY SPRING SYMPOSIUM, BOSTON, MASS., MAY 11, 1972
- 220 72 042 FEIGENBAUM EA LEDERBERG J
ON GENERALITY AND PROBLEM SOLVING: A CASE STUDY USING THE DENDRAL PROGRAM (ARTIFICIAL INTELLIGENCE,
MASS SPECTRUM)
AD-715 128, STANFORD UNIV., CALIFORNIA, DEPT. OF COMPUTER SCIENCE, 50P
- 220 72 043 FENWICK PM
DATA ACQUISITION AND ON-LINE ANALYSIS ON AN HP2116B COMPUTER
PP 42-63 OF DATA ACQUISITION AND REAL-TIME SYSTEMS, LAWRENCE, D.E. (ED.), UNIV. OF QUEENSLAND PRESS,
ST. LUCIA, AUSTRALIA, 1971, FROM SEMINAR HELD AT CANBERRA, AUSTRALIA, DEC. 9, 1970.
- 220 72 044 FISHER ER KRAY AM FRAZER JW
FIVE YEARS OF COMPUTER INTERFACING (AND SOME OF THE PROBLEMS ENCOUNTERED).
UCRL-73713, CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., APRIL 1972, 10P. CONF-720516-3.
FROM DIGITAL EQUIPMENT COMPUTER USERS SOCIETY SPRING SYMPOSIUM, BOSTON, MASS., MAY 11, 1972
- 220 72 045 FRAADE DJ
PROBLEMS AND ANSWERS WITH A DUAL PROCESS COMPUTER SYSTEM
CONTR. INSTRUM., 4, NO. 6, 28, 1972
- 220 72 046 FRAZER JW
MODES OF COMPUTER AUTOMATION IN THE CHEMISTRY LABORATORY
UCRL-72001, CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., JULY 1971, 23P. CONF-700303-2.
FROM 21ST CONFERENCE ON ANALYTICAL CHEMISTRY AND APPLIED SPECTROSCOPY, CLEVELAND, OHIO, MARCH 1,
1970
- 220 72 047 FRAZER JW FISCHER JW MORRIS CJ
AUTOMATED VACUUM FUSION APPARATUS
ANAL. CHEM., 44, 1027, 1972
- 220 72 048 FREEGUARD GF PULFORD CI
A DATA ACQUISITION SYSTEM FOR A QUADRUPOLE MASS SPECTROMETER
J. PHYS. E, 4, 949, 1971
- 220 72 049 FULLWOOD RR VEESER LR MARUSAK AL
WIDE BAND MAGNETIC DISK RECORDING OF ANALOG FIELD DATA AND DIGITAL READOUT TO A REMOTE TERMINAL
LA-4772, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, OCT. 1971, 13P

- 220 72 050 GERHARDSTEIN LH BURNETT RA FRIEDRICHS DR
PDP-9 SOFTWARE SYSTEM WITH A DDC FIXED-HEAD-DISC MEMORY
BNWL-1632, BATTTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., NOV. 1971. 91P
- 220 72 051 GILLEN KT MAHAN BH
DECONVOLUTION OF MOLECULAR BEAM INELASTIC SCATTERING DATA
J. CHEM. PHYS., 56, 2517, 1972
- 220 72 052 GOODMAN CD
DATA ACQUISITION COMPUTER WITH FOREGROUND-BACKGROUND OPERATING SYSTEM
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-16, 136, 1969, FROM 15TH NUCLEAR SCIENCE
SYMPOSIUM, MONTREAL, CANADA, OCT. 23, 1968
- 220 72 053 GRADY BI
VIDEO RECORDER TECHNIQUE FOR RECORDING RAPIDLY CHANGING MASS SPECTRA
J. VAC. SCI. TECHNOL., 9, 496, 1972
- 220 72 054 GRIGSBY RD
ANALYSIS OF COMPOSITE SPECTRA FROM MIXTURES SUBJECTED TO MICROMOLECULAR DISTILLATION IN A MASS
SPECTROMETER
ANAL. CHEM., 43, 1135, 1971
- 220 72 055 GUERN Y JOHANNIN-GILLES A
RATIMETRE DESTINE A LA MESURE DES ABONDANCES RELATIVES DE DEUX IONS A L'AIDE D'UN SPECTROMETRE DE
MASSE A COLLECTEUR UNIQUE
METHOD. PHYS. ANAL., 8, NO. 1, 39, 1972 IN FRENCH
- 220 72 056 HABFAST K
COMPUTER IN DER MASSENSPEKTROMETRIE
MESSTECHNIK, 80, NO. 5, 138, 1972 IN GERMAN
- 220 72 057 HENNEBERG D CASPER K ZIEGLER E
MASSENSPEKTROMETRISCHE ANALYSIS ORGANISCHCHEMISCHER VERBINDUNGEN MIT HILFE EINES COMPUTERSYSTEMS (
COMPUTER AIDED ANALYSIS OF ORGANIC MASS SPECTRA)
ANGEW. CHEM., 84, 381, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 357, 1972
- 220 72 058 HERLAN A
CONTRIBUTION TO MASS SPECTROMETRIC IDENTIFICATION WITH COMPUTERS
Z. ANAL. CHEM., 253, 1, 1971 IN GERMAN
- 220 72 059 HERTZ HS HITES RA BIEMANN K
IDENTIFICATION OF MASS SPECTRA BY COMPUTER SEARCHING A FILE OF KNOWN SPECTRA
ANAL. CHEM., 43, 681, 1971
- 220 72 060 HOF PJ ERICKSON MD
DATA COLLECTION SYSTEM UTILIZING CASSETTE TAPE STORAGE
BNWL-1700, BATTTELLE-NORTHWEST, RICHLAND, WASH., PACIFIC NORTHWEST LAB., DEC. 1972, 57P, NTIS
- 220 72 061 HOFFMAN Z KULKA Z SAWICKI A
AUTOMATIC DATA ACQUISITION AND REGISTRATION FROM MASS SPECTROMETER
NUKLEONIKA, 17, 217, 1972, 9 FIGURES
- 220 72 062 HOLMES WF
DISPLAY ORIENTED MASS SPECTROMETER-COMPUTER SYSTEM
ANAL. CHEM., 43, 1806, 1971
- 220 72 063 HUGENTOBLE E LOLIGER J
A GENERAL APPROACH TO CALCULATING ISOTOPE ABUNDANCE RATIOS IN MASS SPECTROSCOPY
J. CHEM. EDUC., 49, 610, 1972
- 220 72 064 HUGHES GP MERRILL JR
CODING SCHEMES TO SPEED DATA ACQUISITION FOR TIME SHARED COMPUTERS
COO-3175-3, DARTMOUTH COLL., HANDOVER, NEW HAMPSHIRE, 1970, 11P
- 220 72 065 JURS PC
1. MACHINE INTELLIGENCE APPLIED TO CHEMICAL SYSTEMS: A GRAPH THEORETICAL AND LEARNING MACHINE STUDY
OF SECOND-ORDER EFFECTS IN LOW RESOLUTION MASS SPECTRA. 2. INVESTIGATION OF THE FOURIER TRANSFORM
REPRESENTATION OF MASS SPECTRA FOR ANALYSIS BY COMPUTERIZED LEARNING MACHINE
APPL. SPECTROSC., 25, 483, 1971 AND ANAL. CHEM., 43, 1812, 1971
- 220 72 066 KANNO H
A THEORETICAL STUDY OF THE NORMALIZATION FOR PRECISE ISOTOPIC ABUNDANCE RATIOS
MASS SPECTRY, JAPAN, 19, 118, 1971 IN ENGLISH
- 220 72 067 KARASEK FW
OPTICAL MULTICHANNEL ANALYZER
RES./DEVELOP., 23, NO. 1, 47, 1972
- 220 72 068 KIRKEGAARD P
SOME ASPECTS OF THE GENERAL LEAST SQUARES PROBLEM FOR DATA FITTING
RISO-M-1399, DANISH ATOMIC ENERGY COMMISSION, RISØ, RESEARCH ESTABLISHMENT, AUG. 1971, 16P
- 220 72 069 KONONOV BN
PROCESSING OF MASS SPECTRA FOR ABRIDGEMENT OF EXCESS INFORMATION
YADERN, PRIBOROSTR., NO. 15, 75-84, 1971 IN RUSSIAN
- 220 72 070 KOWALSKI BR BENDER CF
PATTERN RECOGNITION, POWERFUL APPROACH TO INTERPRETING CHEMICAL DATA
JACS, 94, 5632, 1972
- 220 72 071 LANDRY BC
THEORY OF INDEXING: INDEXING THEORY AS A MODEL FOR INFORMATION STORAGE AND RETRIEVAL
OSU-CI SRC-TR-71-13, THESIS, OHIO STATE UNIV., COLUMBUS, COMPUTER AND INFORMATION SCIENCE RESEARCH
CENTER, DEC. 1971, 261P
- 220 72 072 LAWRENCE DE FENWICK PM
DATA ACQUISITION AND REAL-TIME SYSTEMS, PROCEEDINGS OF A SEMINAR, CANBERRA, AUSTRALIA, DECEMBER 9,
1970
BOOK, UNIV. OF QUEENSLAND PRESS, ST. LUCIA, AUSTRALIA, 1971, 170P, CONF-701225, 13 PAPERS

- 220 72 073 LE SOURNE M
SYSTEM FOR DATA ACQUISITION AND TELEPROCESSING CONTROLLED BY A SMALL COMPUTER
CEA-R-4251. THESIS. GRENOBLE UNIV., FRANCE, MARCH 1972. 135P IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, GRENOBLE, CENTRE D'ETUDES NUCLEAIRES
- 220 72 074 LEDERBERG J
RAPID CALCULATION OF MOLECULAR FORMULAS FROM MASS VALUES
J. CHEM. EDUC., 49, 613, 1972
- 220 72 075 LEFEBVRE Y AXMANN A
VERSATILE INTERCONNECTION OF FOUR SPECTROMETERS TO A PDP-11 COMPUTER
CAMAC BULL., NO. 4, 9, 1972
- 220 72 076 LONGEROT CD
EMR 6130 (COMPUTER) ON-LINE STATION: PARTIAL PRESSURE ANALYZER SYSTEM
SC-DR-720782. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, NOV. 1972. 30P. NTIS
- 220 72 077 LOOK D LOTZ P
'ON-LINE' VERARBEITUNG VON MASSENSPEKTROMETERSIGNALEN MIT EINEM DIGITALRECHNER
REGELUNGSTECHN. PRAXIS., 13, NO. 4, 132, 1971
- 220 72 078 LOSURE JA
DIAGNOSIS OF MALFUNCTIONS IN COMPLEX ELECTRONIC ASSEMBLIES
BDX-613-337(REV.), FINAL REPORT. BENDIX CORP., KANSAS CITY, MO., SEPT. 1971. 63P
- 220 72 079 MATSUMOTO R SUZUKI R SATO K YAMAGUCHI N
AUTOMATION OF SOLID MASS SPECTRAL ANALYSIS WITH COMPUTER
MASS SPECTRY, JAPAN, 20, 63, 1972 IN JAPANESE
- 220 72 080 MCCOY RD PORTER GT AYERS BO
A SIMPLE METHOD FOR DATA PRESENTATION FROM A MASS SPECTROMETER-CHROMATOGRAPH SYSTEM
AMER. LAB., 3, NO. 9, 17, 1971 AND INT. LAB., 15, NOV./DEC. 1971
- 220 72 081 MCPHERSON D JOHNSON JM
LSF: AN INTERPRETER FOR A CLASS OF LEAST SQUARES FITTING PROBLEMS
AECL-3415. ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, CHALK RIVER NUCLEAR LABS., MAY 1972.
53P
- 220 72 082 MYERS WR
FP9: FLOATING POINT ARITHMETIC SOFTWARE FOR DEC PDP-9 AND PDP-15 COMPUTERS
ANCR-1039. AEROJET NUCLEAR CO., IDAHO FALLS, IDAHO, MARCH 1972. 48P
- 220 72 083 NO AUTHOR
AUTOMATIC ANALYSIS OF INORGANIC COMPOUND MASS SPECTRA
JEDL NEWS, 9A, NO. 2, 17, 1971
- 220 72 084 NO AUTHOR
VERSATILE CARRICK: MASS SPECTROMETRY DATA ACQUISITION UNIT
LAB. MAIL, 2, AUTUMN 1972
- 220 72 085 NOSE N KODERA K MAKITA T
PULSE COUNTING APPARATUS FOR PARTICLE BEAM, PARTS 1 AND 2
MASS SPECTRY, JAPAN, 19, 274, 1971 AND 20, 23, 1972 IN JAPANESE
- 220 72 086 NOSHIRO M GOTO S AKATSUKA Y YAMAGISHI R TOGASHI N
DATA PROCESSING SYSTEM BY COMPUTER FOR GC/MS. 1. ON-LINE DATA REDUCTION SYSTEM FOR GC/MS

MASS SPECTRY, JAPAN, 19, 225, 1971 IN JAPANESE
- 220 72 087 OLIVE G DATTA G TERRY JE
EVALUATION OF AN S.D.I. SYSTEM BASED ON 'NUCLEAR SCIENCE ABSTRACTS' AND THE PERFORMANCE OF MATCHING
BY WUMUS IN TITLES COMPARED WITH INDEXING TERMS
AERE-R-6746. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, MARCH 1971. 22P
- 220 72 088 OSHIMA S NISHISHITA T
DATA PROCESSING IN INSTRUMENTAL ANALYSIS BY A SMALL COMPUTER. ON-LINE DATA PROCESSING OF MASS
SPECTRA
J. JAP. PETROL. INST., 14, 419, 1971
- 220 72 089 UWEN TRE PRINGLE IR
A PEAK SWITCHING AND DIGITAL OUTPUT SYSTEM FOR A MASS SPECTROMETER
J. PHYS. E, 5, 854, 1972
- 220 72 090 PETROV AA
ALGORITHMS OF PRELIMINARY DATA PROCESSING IN THE VISUAL SYSTEM
JPRS-53644. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 220 72 091 POMERNACKI CL
ANALOG DETECTION OF MASS SPECTROMETER PEAKS IN A MULTIUSER COMPUTER SYSTEM
UCRL-73711. CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., APRIL 1972, 6P. CONF-720516-3.
FROM DIGITAL EQUIPMENT COMPUTER USERS SOCIETY SPRING SYMPOSIUM, BOSTON, MASS., MAY 11, 1972
- 220 72 092 PRATT MW TANDY RK KORTAN GA
IGS: A COMPUTER BASED STORAGE AND RETRIEVAL SYSTEM FOR BIBLIOGRAPHIC INFORMATION
UCRL-51040. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., APRIL 1971. 56P
- 220 72 093 RAIMONDI DL
AUTOMATION OF A RESIDUAL GAS ANALYZER ON A TIME-SHARED COMPUTER
IBM J. RES. DEVELOP., 15, NO. 4, 307, 1971
- 220 72 094 ROEMRIG JR TORNEY FL
RESEARCH AND DEVELOPMENT PROGRAM ON THE USE OF COUNTING TECHNIQUES
N71-18032. NORTON RESEARCH CORP., CAMBRIDGE, MASS. 51P. NASA-CR-1747
- 220 72 095 RUSSELL RD BLENKINSOP J MELDRUM RD MITCHELL DL
ON-LINE COMPUTER ASSISTED MASS SPECTROMETRY FOR GEOLOGICAL RESEARCH
MASS SPECTRY, JAPAN, 19, 19, 1971 IN ENGLISH
- 220 72 096 RUSSELL RD
PROGRAM FOR THE ON-LINE PROCESSING OF DATA FROM AUTOMATIC GAS ANALYSIS EQUIPMENT USING A PDP 8/I
COMPUTER
RD-8/N-2091. CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND, BERKELEY NUCLEAR LABS., AUG.
1972. 152P. NTIS

- 220 72 097 SACHS WM
CRITICAL EXAMINATION OF THE ASSUMPTIONS INHERENT IN THE TREATMENT OF EXPERIMENTAL DATA FROM
DISSOCIATIVE BASE CATALYZED H-D EXCHANGE
ACTA CHEM. SCAND., 25, 3123, 1971.
- 220 72 098 SAITO M HIGASHINO H
HIGH SPEED AUTOMATIC DATA ANALYSIS FOR SPARK ION SOURCE MASS SPECTROMETRY.
PP 359-61 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE HELD AT KYOTO, JAPAN, SEPT. 8, 1969
- 220 72 099 SAMSONOV SP GOROKHOV IM
SYSTEM FOR AUTOMATICALLY RECORDING DATA OF MASS SPECTROMETRIC MEASUREMENTS ON PUNCHED TAPE
PRIB. TEKH. EKSP., NO. 3, 224, 1971 IN RUSSIAN
- 220 72 100 SASAKI S ABE H
AN ATTEMPT TO APPLY COMPUTERIZED PATTERN RECOGNITION SYSTEM TO ANALYZE MASS SPECTRA
MASS SPECTRY, JAPAN, 20, 131, 1972 IN ENGLISH
- 220 72 101 SASAKI S ISHIDA Y
STRUCTURE ANALYSIS OF ALKANES AND ALKENES BY PATTERN RECOGNITION OF LOW RESOLUTION MASS SPECTRA
JAPAN ANALYST, 21, 1029, 1972
- 220 72 102 SCHOMBURG G WEEKE F WEIMANN B
DATA PROCESSING IN GAS CHROMATOGRAPHY
ANGEW. CHEM. INT. ED. ENGL., 11, 366, 1972
- 220 72 103 SEYBOLD GD
GSSLRN-11: LEAST SQUARES COMPUTER CODE FOR THE ANALYSIS OF PEAK SHAPES WHICH CAN BE DEFINED
ANALYTICALLY
BNWL-1579, BATTELLE-NORTHWEST, RICHLAND, WASH., PACIFIC NORTHWEST LAB., JUNE 1971, 48P
- 220 72 104 SMITH DH
REAL-TIME MASS SPECTROMETRY. LOGOS - A GENERALIZED MASS SPECTROMETRY COMPUTER SYSTEM FOR HIGH AND
LOW RESOLUTION, GAS CHROMATOGRAPHY/MASS SPECTROMETRY, AND CLOSED-LOOP APPLICATIONS
ANAL. CHEM., 43, 1796, 1971
- 220 72 105 SMITH DH BUCHANAN BG ENGLEMAN RS
APPLICATIONS OF ARTIFICIAL INTELLIGENCE FOR CHEMICAL INFERENCE. 8. AN APPROACH TO COMPUTER
INTERPRETATION OF HIGH RESOLUTION MASS SPECTRA OF COMPLEX MOLECULES STRUCTURE ELUCIDATION OF
ESTROGENIC STEROIDS
JACS, 94, 5962, 1972
- 220 72 106 SMITH DH EGLINTON G
1. A COMPOUND CLASSIFIER BASED ON COMPUTER ANALYSIS OF LOW RESOLUTION MASS SPECTRAL DATA.
GEOCHEMICAL AND ENVIRONMENTAL APPLICATIONS. 2. COMPOUND CLASSIFICATION BY COMPUTER TREATMENT OF
LOW RESOLUTION MASS SPECTRA. APPLICATION TO GEOCHEMICAL AND ENVIRONMENTAL PROBLEMS
ANAL. CHEM., 44, 536, 1972 AND NATURE, 235, 325, 1972
- 220 72 107 SMITH G
CATCHING SINGLE ATOMS
NEW SCIENTIST SCI. J., 51, 564, 1971
- 220 72 108 SMITH WA
MANAGEMENT OF INFORMATION ANALYSIS CENTERS. PROCEEDINGS OF A FORUM, NATIONAL BUREAU OF STANDARDS,
GAITHERSBURG, MD., MAY 17-19, 1971
COSATI-72-1, FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY, WASHINGTON, D.C., COMMITTEE ON SCIENTIFIC
AND TECHNICAL INFORMATION, JAN., 1972, 203P, CONF-710550
- 220 72 109 SPECTOR C
INSTRUMENT-COMPUTER INTERFACING CRITERIA
AMER. LAB., 3, NO. 9, 39, 1971
- 220 72 110 STACEY JS
DIGITAL RECORDING OF MASS SPECTRA IN GEOLOGIC STUDIES. 2.
CAN. J. EARTH SCI., 9, 824, 1972
- 220 72 111 STEINHAUS DW FISHER KJ ENGLEMAN R
PRECISION COMPUTER MEASUREMENT OF SPECTRA
CHEM. INSTRUM., 3, NO. 2, 141, 1971, CONF-701017-7, FROM 14TH ANNUAL CONFERENCE ON ANALYTICAL
CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 13, 1970
- 220 72 112 SULFRIDGE C
COMPUTER CONTROL AND DATA PROCESSING FOR FIFTEEN ISOTOPE RATIO MASS SPECTROMETERS
K-L-6299, OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., SEPT. 1972, 16P
- 220 72 113 SZOKE J
1. COMPUTERIZED MEASUREMENTS AND DATA PROCESSING. IV. ON-LINE MEASUREMENTS AND COMPUTERIZED DATA
PROCESSING OF SPECTRA. 2. COMPUTER CALCULATION AND DATA PROCESSING. III. COMPUTER CALCULATION AND
DATA PROCESSING IN CHEMISTRY
1. KFKI-72-5, MARCH 1972, 27P, 2. KFKI-72-6, 1972, 43P, IN HUNGARIAN, MAGYAR TUDOMANYOS AKADEMIA
KOZPONTI KUTATO INTEZETE, BUDAPEST
- 220 72 114 TAKESHITA I
A SIMPLE METHOD FOR DIGITAL RECORDING OF MASS SPECTRA
MASS SPECTRY, JAPAN, 20, 321, 1972 IN JAPANESE
- 220 72 115 TEBRA W VISSER CA
A DIGITAL COHERENT DETECTOR
NUCL. INSTRUM. METHODS, 98, 165, 1972
- 220 72 116 TERNEY FL ROCHRIE JR
RESEARCH AND DEVELOPMENT PROGRAM ON THE USE OF COUNTING TECHNIQUES
NASA-CR-1747, NORTON RES. CORP., CAMBRIDGE, MASS., MARCH 1971, 51P
- 220 72 117 TIGHE LE
COMPUTER-COMPUTER LINK BETWEEN A PDP-7 AND A PDP-15
NUCL. INSTRUM. METHODS, 97, 417, 1971
- 220 72 118 UNGER FG ARTEHOVA FS CHELNOKO YV
METHOD FOR SOLVING OVERDETERMINED SYSTEMS OF EQUATIONS IN CALCULATING THE GROUP COMPOSITION OF
HYDROCARBON MIXTURES ACCORDING TO THEIR MASS SPECTRA
ZAVOD. LAB., 37, 1470, 1971 IN RUSSIAN

- 220 72 119 VAN ELSWIJK PBJ ENGMANN R HOOGENBOOM AM DE WIT P
DATA ACQUISITION SYSTEM WITH MASS STORAGE
NUCL. INSTRUM. METHODS. 96. 35. 1971
- 220 72 120 VINK J SLOOT JH DE RIDDER JJ
COMPUTER AIDED MASS SPECTROMETRIC IDENTIFICATION OF STEREOISOMERIC MONOSACCHARIDES
JACS. 94. 2542. 1972
- 220 72 121 VISTEL IU AB
SOME ERRORS IN APPLICATION OF MATHEMATICAL METHODS TO ANALYSES OF GEOCHEMICAL DATA
GEOKHIMIYA. 7. 1065. 1970
- 220 72 122 VORONIN AM
APPLICATION OF THE MULTICHANNEL ANALYZER AI-256 TO BETA- AND MASS SPECTROSCOPY
IZV. AKAD. NAUK KAZ. SSR. SER. FIZ.-MATEM. NO. 2. 57. 1972 IN RUSSIAN
- 220 72 123 WANGEN LE
SMALL COMPUTER. MAGNETIC TAPE ORIENTED. RAPID SEARCH SYSTEM APPLIED TO MASS SPECTROMETRY
ANAL. CHEM. 43. 1605. 1971
- 220 72 124 WEISE A SCHAFER W WALTHER R
ELEKTRONISCHE DATENVERARBEITUNG IN DER CHEMIE: CHEMISCHE FORSCHUNG UND NICHTNUMERISCHE
INFORMATIONSVARBEITUNG
Z. CHEM. 12. NO. 3. 81. 1972
- 220 72 125 WILLITS JL
MULTITASKING OPERATING SYSTEM
IS-2999. IOWA STATE UNIV. AMES. AMES LAB. USAEC. OCT. 1972. 13P
- 220 72 126 WYATT JR PRESSLEY GA STAFFORD FE
ON-LINE COMPUTER CONTROL AND DATA ACQUISITION FOR A HIGH TEMPERATURE/MOLECULAR BEAM MASS
SPECTROMETER
HIGH TEMP. SCI. 3. NO. 2. 130. 1971. CDD-1147-34
- 220 72 127 YATES AC
PROGRAM FOR CALCULATING RELATIVISTIC ELASTIC ELECTRON-ATOM COLLISION DATA
COMPUT. PHYS. COMMUN. 2. NO. 4. 175. 1971
- 220 72 128 YOUNG DS THOMAS DW FRIEDMAN RB
COMPUTER LISTING OF EFFECTS OF DRUGS ON LABORATORY DATA
J. CLIN. PATHOL. 25. 984. 1972
- 220 72 129 ZANDER DR
ULTRALINEAR 16-BIT DIGITAL-TO-ANALOG CURRENT CONVERTER
REV. SCI. INSTRUM. 42. 797. 1971
- 220 72 130 ZARUTSKII EM
BESM-2 COMPUTER CALCULATIONS OF ELASTIC COLLISIONS OF IONS WITH ATOMS IN SOLIDS. COMPARISON WITH
EXPERIMENT
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.). 15. 1594. 1971. TRANSLATED FROM Zh. TEKH. FIZ. 40. 2046.
1970
- 220 72 131 ZIEGLER E HENNEBERG D SCHOMBURG G
COMPUTER SYSTEMS FOR CHEMICAL RESEARCH
ANGEW. CHEM. INT. ED. ENGL. 11. 348. 1972
- 225 72 001 BALDWIN JE ANDRIST AH
MECHANISM AND INVERSE PRIMARY KINETIC ISOTOPE EFFECT IN THE REACTION OF FLUORENYLIDENE WITH
3-DEUTERIOCYCLOHEXENE
J. CHEM. SOC. D. P1512. 1971
- 225 72 002 BALTAYAN P NEDELEC D
NON-ZERO MAGNETIC FIELD LEVEL CROSSING OF (3)PI(U) HYDROGEN MOLECULAR LEVELS EXCITED BY ELECTRON
IMPACT
PHYS. LETT. 37A. 31. 1971
- 225 72 003 BARBARELLA G GARBESI A FAVA A
BASE CATALYZED HYDROGEN-DEUTERIUM EXCHANGE IN SULFONIUM CATIONS
HELV. CHIM. ACTA. 54. 2297. 1971
- 225 72 004 BARGER HJ COLEMAN AJ
EFFECT OF ADSORPTION POTENTIAL ON THE HYDROGEN-DEUTERIUM EXCHANGE OF BENZENE AT A FUEL CELL
ELECTRODE
J. PHYS. CHEM. 75. 3715. 1971
- 225 72 005 BARIBAUD M MONTE J ZADWORYNY F
TOTAL CROSS SECTIONS FOR COLLISIONAL DETACHMENT OF ONE OR TWO ELECTRONS FROM H(-) ON H2O
COMPT. REND. SER. B. 272. 457. 1971 IN FRENCH
- 225 72 006 BARNETT CF RAY JA RUSSEK A
HIGHLY EXCITED STATES OF HYDROGEN MOLECULES. 1. H2. HD. AND D2. 2. H3
PHYS. REV. 5A. 2110 AND 2120. 1972
- 225 72 007 BARUA AK SAHA S MULLICK K
ASYMMETRY IN THE ANGULAR DISTRIBUTION OF THE FRAGMENTS PRODUCED FROM THE COLLISION INDUCED
DISSOCIATION OF HD(+) ION
J. PHYS. B. 4. 1450. 1971
- 225 72 008 BATES DR SPREYAK D
FORCED COMMON TURNING POINT PROCEDURE AND EXCITATION IN SLOW H(+)-H(1S) COLLISIONS
CHEM. PHYS. LETT. 10. 428. 1971
- 225 72 009 BAYE D BINON F DEMEUR M
EXCITATION OF THE HYDROGEN ATOM BY A FAST PROTON
BULL. CL. SCI. ACAD. ROY. BELG. 56. 1238. 1970 IN FRENCH
- 225 72 010 BEER R
JUPITER: OBSERVATION OF DEUTERATED METHANE IN ATMOSPHERE
SCIENCE. 175. 1360. 1972

- 225 72 011 BERGMAN NA
ISOTOPE EFFECTS IN PROTON TRANSFER REACTIONS. 3. DETERMINATION OF THE EQUILIBRIUM CONSTANT FOR THE
PROTIUM-DEUTERIUM EXCHANGE BETWEEN 2-NETHYL-3-PHENYLPROPIONITRILE AND METHANOL
ACTA CHEM. SCAND., 25, 1517, 1971
- 225 72 012 BERKOWITZ EH STOCKER H
SEARCH FOR THE H₃(+2) ION
J. CHEM. PHYS., 55, 4606, 1971
- 225 72 013 BERNAN K DINOVO EC BOYER PD
RELATIONSHIPS OF PH TO EXCHANGE RATES AND DEUTERIUM ISOTOPE EFFECTS IN FUMARASE REACTION
BOCH, 1, NO. 3, 234, 1971
- 225 72 014 BERNSTEIN RB
SHAPE RESONANCES AND ROTATIONALLY PREDISSOCIATING LEVELS. THE ATOMIC COLLISION TIME-DELAY FUNCTIONS
AND QUASIBOUND LEVEL PROPERTIES OF H₂ (X)¹Σ⁺(G)⁺(+)
N71-30903. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971
- 225 72 015 BEST KJ GRABKE HJ
CATALYSIS OF THE ISOTOPE EXCHANGE REACTION HTO + H₂ → HT + H₂O ON THE INTERMETALLIC COMPOUND NIGA
BER. BUNSENES. PHYS. CHEM., 75, 524, 1971 IN GERMAN
- 225 72 016 BIALE G PARKER AJ STEVENS ID
E2C MECHANISM IN ELIMINATION REACTIONS. 4. PRIMARY HYDROGEN ISOTOPE EFFECTS
JACS, 94, 2235, 1972
- 225 72 017 BIELER NE FIRESTONE RF
EXCHANGE MECHANISM AND ARRHENIUS PARAMETERS OF ELEMENTARY STEPS IN THE REACTIONS OF HYDROGEN ATOMS
WITH WATER VAPOR IN IRRADIATED MIXTURES OF HYDROGEN AND WATER VAPOR
J. PHYS. CHEM., 76, 621, 1972. C00-1116-19, 1971. 37P
- 225 72 018 BIRELY JH MCNEAL RJ
FORMATION OF H(2P) AND H(2S) IN COLLISIONS OF PROTONS AND HYDROGEN ATOMS WITH HYDROGEN MOLECULES
PHYS. REV., 5A, 692, 1972
- 225 72 019 BLACK DC
SOME IMPLICATIONS OF A NEW VALUE FOR THE PRIMORDIAL SOLAR DEUTERIUM-HYDROGEN RATIO
NATURE, PHYS. SCI., 234, 148, 1971
- 225 72 020 BOEHMERT R BONKA H
EXPECTED TRITIUM CONTAMINATION FROM NUCLEAR REACTORS TO AIR AND WATER BY HOMOGENEOUS DISPERSION TO
THE YEAR 2000
JUL-763-RG. KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, INSTITUT FUR REAKTORENTWICKLUNG, MAY 1971.
98P IN GERMAN
- 225 72 021 BOLOGA M
H-D ISOTOPIC EXCHANGE IN ACTIVE METHYL AND METHYLENE COMPOUNDS. 1.
STUD. CERCET. CHIM., 19, 1069, 1971 IN RUMANIAN. 42 REFERENCES
- 225 72 022 BOWMAN JM KUPPERMANN AK
CLASSICAL AND QUANTUM REACTION PROBABILITIES AND THERMAL RATE CONSTANTS FOR THE COLLINEAR H + H₂
EXCHANGE REACTION WITH VIBRATIONAL EXCITATION
CHEM. PHYS. LETT., 12, 1, 1971. CALT-767-P-4-87. CALIFORNIA INST. OF TECH., PASADENA
- 225 72 023 BRANSDEN BH COLEMAN JP SULLIVAN J
- USE OF SECOND ORDER POTENTIALS IN THE THEORY OF SCATTERING OF CHARGED PARTICLES BY ATOMS. 2.
ELECTRON AND PROTON SCATTERING BY HYDROGEN ATOMS
J. PHYS. B, 5, 546, 1972
- 225 72 024 BRENNAN MH MORROW R
PROTON-HYDROGEN ATOM MOMENTUM TRANSFER CROSS SECTION AT ABOUT 5 EV
J. PHYS. B, 4, NO. 7, L53, 1971
- 225 72 025 BROWN NJ MUNN RJ
COLLISION INTEGRALS FOR ISOTOPIC HYDROGEN MOLECULES
J. CHEM. PHYS., 56, 2761, 1972
- 225 72 026 BRUNER P CANULLI C DI CORCIA A LIBERTU A
DEUTERIUM ENRICHMENT FROM NATURAL ABUNDANCE BY GAS CHROMATOGRAPHY
NATURE, PHYS. SCI., 231, 1715, 1971
- 225 72 027 BUCUR R
ESTABLISHMENT OF EQUILIBRIA IN THE ISOTOPIC DISTRIBUTION OF HYDROGEN AND DEUTERIUM BETWEEN PALLADIUM
AND AQUEOUS SOLUTIONS
Z. PHYS. CHEM. (FRANKFURT), 75, 207, 1971
- 225 72 028 BUU-HOI NP BACIAO N
ENHANCEMENT OF CARCINOGENICITY OF 7,12-DIMETHYLBENZ(α)ANTHRACENE THROUGH REPLACEMENT OF HYDROGEN
BY DEUTERIUM: A NEW BIOLOGICAL ISOTOPE EFFECT
NATURWISSENSCHAFTEN, 58, 371, 1971
- 225 72 029 CASHAGULA UC
TRITIUM ANOMALIES ON AMCHITKA ISLAND, ALASKA. PARTS 1 AND 2
NVO-1229-113(Pt.1), JULY 1969, 41P. (Pt.2), SEPT. 1969, 23P. TELEDYNE ISOTOPES, PALO ALTO, CALIF.
AND LAS VEGAS, NEV.
- 225 72 030 CERNY B HANUS J
INTERACTION BETWEEN TRITIUM GAS AND SOLVENTS UNDER CONDITIONS OF CATALYTIC HYDROGENATION
RADIOISOTOPI, 12, NO. 4, 605, 1971. FROM 6TH RADIOCHEMICAL CONFERENCE, MARIANSKE LAZNE,
CZECHOSLOVAKIA, MAY 1971
- 225 72 031 CHALLIS BC MILLAR EM
HETERODARONATIC HYDROGEN EXCHANGE REACTIONS. 5. ISOTOPE EFFECTS FOR ACID CATALYSED EXCHANGE OF
3-(3)H1-2-METHYLINDOLE AN
J. CHEM. SOC. B, P1110, 1972. J. CHEM. SOC., PERKIN TRANS., 11.
- 225 72 032 CHANG SY
ACCURATE CALCULATION OF THE VIBRATIONAL FORCE CONSTANT OF THE HYDROGEN MOLECULE BY
VIBRATION-PERTURBATION THEORY
J. CHEM. PHYS., 56, 4, 1972

- 225 72 033 CHIRGAOZ IN
METHOD OF DETERMINING REGIONS IN GLOBULAR PROTEINS WITH DIFFERENT ACCESSIBILITY FOR WATER VAPOUR
MOLECULES, BASED ON DEPENDENCE OF DEUTERIUM EXCHANGE ON WATER VAPOUR PRESSURE
DOKL. AKADE. NAUK SSSR, 204, 723, 1972
- 225 72 034 CODE RF RAMSEY NF
MOLECULAR BEAM MAGNETIC RESONANCE STUDIES OF HD AND D2
PHYS. REV., 4A, 1945, 1971
- 225 72 035 COHEN JJ HIGGINS GH
SOCIOECONOMIC IMPACT OF LOW LEVEL TRITIUM RELEASES TO THE ENVIRONMENT
UCRL-73182 (REV. 1), CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., FEB. 1972, 19P.
CONF-710809-15, FROM TRITIUM SYMPOSIUM, LAS VEGAS, NEV., AUG. 30, 1971
- 225 72 036 COX JR WILLCOTT WR
DEUTERIUM ANALYSIS AND ORGANIC CHEMISTRY
ALDRICHIMICA ACTA, 9, NO. 2, 17, 1972, 29 REFERENCES
- 225 72 037 CRESPI HL STEWART HL KLINE JR KATZ JJ
DISCRIMINATION AGAINST TRITIUM BY FULLY DEUTERATED ALGAE
HEALTH PHYS., 23, 111, 1972
- 225 72 038 CZARNIK JW FAIRCHILD CE
NEW DATA ON THE VELOCITY DISTRIBUTION OF H(2S) ATOMS PRODUCED BY DISSOCIATIVE EXCITATION OF H2
PHYS. REV. LETTS, 26, 807, 1971
- 225 72 039 CZARNIK JW
DISSOCIATIVE EXCITATION OF H2
THESIS, OREGON STATE UNIV., CORVALLIS, 1972, 78P. UNIV. MICROFILMS ORDER NO. 72-5089
- 225 72 040 DAMM H MALHERBE R BEAUD P
HYDROGEN ISOTOPIC EXCHANGES T-H, T-D, D-H, AND H-D BETWEEN DIAZOACETONE AND DIAZOACETALDEHYDE. SPEED
OF PROTONATION AND ISOTOPIC EFFECTS
HELV. CHIM. ACTA, 54, 2202, 1971 IN FRENCH
- 225 72 041 DAI SH DOLBIER WR
SECONDARY DEUTERIUM ISOTOPE EFFECTS IN ALLENE CYCLOADDITIONS
JACS, 94, 3946, 1972
- 225 72 042 DASTIDAR TK BARUA RAI AK
ANGULAR DISTRIBUTION OF H(+) OR D(+) FROM ELECTRON IMPACT DISSOCIATION OF HD(+) ION
J. PHYS. SOC. JAPAN, 31, 230, 1971
- 225 72 043 DE HEER FJ CARRIERE JD
EMISSION OF THE WERNER BAND SYSTEM AND LYMAN-ALPHA RADIATION FOR 0.05 TO 6 KEV ELECTRONS IN H2
J. CHEM. PHYS., 55, 3829, 1971
- 225 72 044 DIESTLER DJ TRUHLAR DG KUPPERMANN A
COMPARISON OF BOUNDARY VALUE AND INITIAL VALUE METHODS FOR THE ACCURATE QUANTUM-MECHANICAL SOLUTION
OF THE COLLINEAR REACTIVE SCATTERING PROBLEM
CHEM. PHYS. LETTS, 13, 1, 1972
- 225 72 045 DIRIAN G LAMBERT I ROTH E
ISOTOPE EXCHANGE PROCESS BETWEEN THE AMMONIA OR AN AMINE AND THE HYDROGEN
FRENCH PATENT 2,041,394, JANUARY 18, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, FILED APRIL 23,
1969, IN FRENCH
- 225 72 046 DIZABO P MONIER J POMPON A
MISE EN EVIDENCE DE GROUPEMENTS ACTIFS DANS LES ALKYL PYRIMIDINES. ETUDE DE LA MOBILITE DES
HYDROGENES PAR ECHANGE ISOTOPIQUE HYDROGENE-DEUTERIUM. 1. ETUDE CINETIQUE QUALITATIVE
J. LABEL. COMPOUNDS, 7, 399, 1971
- 225 72 047 DUBEN AJ LOWE JP
CORRELATION STUDIES ON H3(+). 1. THE WAVE FUNCTIONS. 2. ELECTRON DENSITIES AND EXPECTATION VALUES
J. CHEM. PHYS., 55, 4270 AND 4276, 1971
- 225 72 048 DUER WC
THERMOCHEMICAL HYDROGEN-DEUTERIUM ISOTOPE EFFECTS
THESIS, UNIV. OF MISSOURI, ROLLA, 1970, 117P. UNIV. MICROFILMS ORDER NO. 71-12,314
- 225 72 049 ESSINGTON EH FORSLow EJ CASTAGNOLA DC
INTERIM SUMMARY OF TRITIUM DATA FOR STS 'A', AMCHITKA ISLAND, ALASKA
NVO-1229-157, JULY 1969 - JULY 1970, DEC. 1970, 99P. NVO-1229-172, JULY 1970 - JULY 1971, SEPT.
1971, 75P. TELEDYNE ISOTOPES, PALO ALTO, CALIFORNIA AND LAS VEGAS, NEVADA
- 225 72 050 FAISAL FMH
VIBRATIONAL EXCITATIONS OF H2(+) BY E(+) IMPACT. 1.
PHYS. REV., 4A, 596, 1971
- 225 72 051 FELOEN MM BRAUN JC RICHARD M
CALCULATIONS ON THE E-H CROSS SECTION BY THE CORRELATION METHOD USING A MODIFIED POTENTIAL
PHYS. LETTS, 38A, 375, 1972
- 225 72 052 FELDEN MM FELDEN MA
SEMIEMPIRICAL CALCULATIONS FOR ELECTRON IMPACT EXCITATION OF HYDROGEN ATOM
ASTROPHYS. J., 174, 219, 1972
- 225 72 053 FINK EH AKINS DL MOORE CB
ENERGY TRANSFER IN MONOCHROMATICALLY EXCITED HYDROGEN (B(1)SIGMA(U)(+)). 1. EXCITATION PROCESSES,
ELECTRONIC QUENCHING, AND VIBRATIONAL ENERGY TRANSFER
J. CHEM. PHYS., 56, 900, 1972
- 225 72 054 FISHER IP BROWN WF
ANALYSIS OF DEUTERIUM CONTENT OF HYDROGEN AT AND BELOW NATURAL ABUNDANCE LEVELS
J. MASS SPECTRY, ION PHYS., 7, 273, 1971
- 225 72 055 FITE WL
CROSS SECTIONS FOR D + H2 > HD + H REACTION
J. CHEM. PHYS., 57, 1809, 1972

- 225 72 056 FLANNERY MR
1. EXCITATION AND IONIZATION OF HYDROGEN BY HYDROGEN-ATOM IMPACT. 2. SEMIQUANTAL TREATMENT OF
HYDROGEN-HYDROGEN EXCITATION AND IONIZATION COLLISIONS
CAN. J. PHYS., 50, 61, 1972 AND J. PHYS. B, 5, 334, 1972
- 225 72 057 FORD JC MCCOY FM CONRAD R THOMAS EW
FORMATION OF FAST EXCITED H ATOMS. 3. COLLISIONAL DISSOCIATION OF H₂(+) AND H₃(+) ON HELIUM
PHYS. REV., 5A, 1705, 1972
- 225 72 058 FORD L BROWNE JC
EXCITATION OF PARITY FORBIDDEN TRANSITIONS IN H₂ BY ENERGETIC ELECTRONS
J. CHEM. PHYS., 55, 1053, 1971
- 225 72 059 FRINK RO WETHINGTON JA
TRITIUM EXCHANGE BETWEEN HYDROCARBONS AND STEAM
TRANS. AMER. NUCL. SOC., 14, NO. 2, 467, 1971, FROM JOINT MEETING OF THE AMERICAN NUCLEAR SOCIETY,
MIAMI BEACH, FLA., OCT. 17, 1971, CONF-711009
- 225 72 060 GAUSSORGUES C SALIN A
DIFFERENTIAL AND TOTAL CROSS SECTIONS FOR EXCITATION OF THE N=2 LEVEL OF HYDROGEN BY PROTON IMPACT
J. PHYS. B, 4, 503, 1971
- 225 72 061 GEDDES J KRAUSE MF FITE WL
THE ATOM-MOLECULE REACTION D + H₂ → HD + H STUDIED BY MOLECULAR BEAMS
J. CHEM. PHYS., 56, 3298, 1972, 172-18706, 1972, NTIS
- 225 72 062 GELTMAN S HIDALGO MB
HIGH ENERGY APPROXIMATION. 2. HYDROGEN ATOM EXCITATION BY ELECTRONS
J. PHYS. B, 4, 1299, 1971
- 225 72 063 GLASOE PK BUSH CN
EXAMINATION OF THE EXCHANGE OF DEUTERIUM FROM DEUTERIUM OXIDE IN CARBON TETRACHLORIDE SOLUTION WITH
HYDROGEN IN GLASS USING INFRARED SPECTROMETRY
ANAL. CHEM., 44, 833, 1972
- 225 72 064 GUIZOUARN L
MOLECULAR PHYSICAL PROPERTIES OF THE HYDROGEN ISOTOPES AND OF THEIR ISOTOPIC COMBINATIONS
UCRL-TRANS-10596, TRANSLATED FOR UNIV. OF CALIFORNIA, LAWRENCE LIVERMORE LAB., FROM REPORT
CEA-B18-87, 59P
- 225 72 065 HAYNES R
DEPENDENCE OF THE ISOTOPE SEPARATION FACTOR OF THE HYDROGEN-EVOLUTION REACTION UPON POTENTIAL:
MECHANISM EVIDENCE FOR TRANSITION METAL SUBSTRATES
ELECTROCHIM. ACTA, 16, 1129, 1971
- 225 72 066 HENDERSON RW
REACTIONS OF RADICALS. 1. USE OF HYDROGEN ISOTOPES IN POLYMER CHEMISTRY. 2. HYDROGEN ATOM REACTIONS
IN SOLUTION
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, 1971, 138P, UNIV. MICROFILMS ORDER NO. 71-29,371
- 225 72 067 HENRY PM
PALLADIUM(III) CATALYZED EXCHANGE AND ISOMERIZATION REACTIONS. 1. THE EXCHANGE OF ENOL ACETATES WITH
ACETIC ACID CATALYZED BY PALLADIUM(II) CHLORIDE
JACS, 93, 3853, 1971
- 225 72 068 HENRY RJW CHANG ES
- ROTATIONAL-VIBRATIONAL EXCITATION OF H₂ BY SLOW ELECTRONS
PHYS. REV., 5A, 276, 1972
- 225 72 069 HERRERO FA DOERING JP
VIBRATIONAL EXCITATION OF H₂ BY PROTON IMPACT
PHYS. REV., 5A, 702, 1972
- 225 72 070 HESS WR
ELECTRON CAPTURE INTO THE N = 3,4 STATES OF H BY LOW ENERGY H(+) AND H₂(+) IMPACT ON HYDROGEN GAS
PHYS. LETT., 41A, 66, 1972
- 225 72 071 HIRSCHFELDER JO CURTISS LA
SPONTANEOUS IONIZATION OF A HYDROGEN ATOM IN AN ELECTRIC FIELD. 1.
J. CHEM. PHYS., 55, 1395, 1971
- 225 72 072 HOSAKA A ROWLAND FS
RECOIL TRITIUM REACTIONS WITH CYCLOBUTANE-D₈. EXCITATION ENERGIES ACCOMPANYING SUBSTITUTION OF
ENERGETIC TRITIUM FOR DEUTERIUM
J. PHYS. CHEM., 75, 3781, 1971
- 225 72 073 HUANG JJ
SIMPLE DIATOMICS-IN-MOLECULES ENERGY EXPRESSION FOR H₃(+) AND ITS APPLICATION TO H₃(+)
J. CHEM. PHYS., 55, 5136, 1971
- 225 72 074 ICHIKAWA M KAWASE K TANABE K
METHANE DEUTERIUM EXCHANGE ON GRAPHITE-POTASSIUM LAMELLAR COMPOUNDS
J. CHEM. SOL. U, 11/7, 1972
- 225 72 075 IONESCU AT
STIMULATED EMISSION OF LABILE MOLECULAR IONS OF DEUTERIUM BETWEEN 48 AND 84 MHZ
REV. ROUM. PHYS., 16, 1023, 1971
- 225 72 076 ISAGULYANTS GV SLINKIN AA GADZHI-KASUMOV VS FEDOROVSKAYA EA GUDKOV BS
KLIMOV AP KHAIRUDI IR
1. INVESTIGATION OF THE DEHYDROGENATION AND DEUTEROEXCHANGE OF CYCLOHEXANE ON CHROMIC OXIDE TO WHICH
LITHIUM OXIDE HAS BEEN ADDED. 2. ON EQUILIBRIUM OF ISOTOPIC TRITIUM EXCHANGE OVER A PLATINUM
CATALYST IN A HYDROGEN-CYCLOHEXANE SYSTEM
KINET. KATAL., 11, 1184, 1970 AND 13, 1079, 1972 IN RUSSIAN
- 225 72 077 KAKUDA Y PERRY N MUELLER DD
HYDROGEN-DEUTERIUM EXCHANGE OF A CHARGED POLY(METHACRYLAMIDE) AND ITS MONOMERIC ANALOG
JACS, 93, 5992, 1971

- 225 72 078 KALAGHAN PM DALGARNO A
HYPERFINE STRUCTURE OF MOLECULAR ION H₂(⁺)
PHYS. LETT. 38A, 485, 1972
- 225 72 079 KEELY WM ATWOOD K
THE DETERMINATION OF SLOT EFFICIENCIES FOR DEUTERIUM EXCHANGE BETWEEN WATER AND HYDROGEN SULFIDE
T-9-40-1-3, GIRDLER CORP., LOUISVILLE, KY., AUG. 1951, 8P
- 225 72 080 KNIGHT AEW SELINGER BK
DEUTERIUM ISOTOPE EFFECT ON THE FLUORESCENCE LIFETIME OF AZULENE
CHEM. PHYS. LETT. 12, 419, 1971
- 225 72 081 KNYAZEV DA BANTYSH AN IVLEV AA
ISOTOPE EXCHANGE REACTIONS. 8. VARIATION OF THE PARTITION FUNCTION RATIOS OF THE ISOTOPIC FORMS OF
UNSUBSTITUTED HYDRIDES WITH CHEMICAL BOND CHARACTERISTICS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 44, 1264, 1970
- 225 72 082 KO EC ROBERTSON RE
MECHANISM FOR HYDROLYSIS OF PRIMARY ALKYLCHLOROSULFATES IN WATER, KINETIC SOLVENT ISOTOPE EFFECT AND
SECONDARY DEUTERIUM ISOTOPE EFFECT
CAN. J. CHEM., 50, 434, 1972
- 225 72 083 KOCH F
ROLE OF WAVE PROPERTIES OF ISOTOPES IN CHEMICAL KINETICS
STUD. UNIV. BABES-BOLYAI, SER. PHYS., 15, NO. 2, 63, 1970
- 225 72 084 KOENIG LA
ENVIRONMENTAL BURDEN OF TRITIUM
KFK-1560, KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, FEB. 1972, 26P IN GERMAN
- 225 72 085 KONDO T ICHIKAWA M SAITO S
EVIDENCE OF A PI-ALLYL INTERMEDIATE IN DEUTERIUM-PROPYLENE EXCHANGE REACTION OVER C(24) K
BULL. CHEM. SOC. JAPAN, 45, 1580, 1972
- 225 72 086 KOURI DJ CURTISS CF
LOW ENERGY ATOMIC COLLISIONS. 2. FORMAL THEORY OF H(⁺)-H COLLISIONS
MOL. PHYS., 21, 609, 1971
- 225 72 087 KRENOS J PRESTON R WOLFGANG R TULLY J
REACTION OF HYDROGEN ATOMIC IONS WITH HYDROGEN MOLECULES: EXPERIMENT, AB INITIO THEORY, AND A
CONCEPTUAL MODEL
CHEM. PHYS. LETT. 10, 17, 1971
- 225 72 088 KRISHTALIK LI TSIONSKII VM
MECHANISM OF THE ELEMENTARY ACT OF PROTON TRANSFER, PREEXPONENTIAL FACTOR AND HYDROGEN ISOTOPE
SEPARATION FACTOR
J. ELECTROANAL. CHEM. INTERFACIAL ELECTROCHEM., 31, 363, 1971
- 225 72 089 KUTTER E MACHLEIDT H
DEUTERIUM ISOTOPE EFFECT IN CHLORAMPHENICOL ACTION
J. MED. CHEM., 14, 931, 1971
- 225 72 090 KWART H LATIMORE MC
KINETIC DEUTERIUM ISOTOPE CRITERION FOR CONCERTEDNESS
JACS, 93, 3770, 1971
- 225 72 091 LAMATY G ROQUES A FONZES L
1. EFFET ISOTOPIQUE SECONDAIRE DANS UNE REACTION DE TRANSFERT DE PROTON: ECHANGE DES HYDROGENES
MOBILES DE LA BICYCLO-2,2,2-OCTANONE ET DE LA PINACOLONE. 2. DOSAGE DE CETONES PARTIELLEMENT
DEUTERIEES PAR SPECTROMETRIE DE MASSE: MESURE DE LA DIFFERENCE D'INTENSITE MOLEAIRE DES PICS
MOLECULAIRES
COMPT. REND., SER. C, 273, 521 AND 922, 1971
- 225 72 092 LEBEDA CF THORSON WR LEVY H
IMPACT IONIZATION IN THE PROTON-H-ATOM SYSTEM. 4. IMPROVED VALUES FOR RADIAL TRANSITION MATRIX
ELEMENTS
PHYS. REV., 4A, 900, 1971
- 225 72 093 LIM EC BHATTACHARJEE HR
INVERSE DEUTERIUM ISOTOPE EFFECT IN RADIATIONLESS ELECTRONIC TRANSITIONS, SINGLET-TRIPLET
INTERSYSTEM CROSSING IN ANTHRACENE
CHEM. PHYS. LETT. 9, 249, 1971
- 225 72 094 LIM EC
DEUTERIUM ISOTOPE EFFECTS IN ELECTRONIC RELAXATION OF LARGE POLYATOMIC MOLECULES
COO-2192-1, PROGRESS REPORT, JAN. 1972 - JAN. 1973, WAYNE STATE UNIV., DETROIT, MICHIGAN, 1972, 7P
- 225 72 095 LIN KH
TRITIUM ENRICHMENT BY ISOTOPE SEPARATION TECHNIQUE
ORNL-TM-3976, OAK RIDGE NATIONAL LAB., TENN., DEC. 1972, 33P
- 225 72 096 LINDER F SCHMIDT H
ROTATIONAL AND VIBRATIONAL EXCITATION OF H₂ BY SLOW ELECTRON IMPACT
Z. NATURFORSCH., 26A, 1603, 1971
- 225 72 097 MARIYA K ANDO N OZAKI A
ISOTOPIC EXCHANGE OF ETHYLENE AND DEUTEROETHYLENE, AND ISOMERIZATION OF BUTENES ON NICKEL CHLORIDE
CATALYST
NIPPON KAGAKU ZASSHI (J. CHEM. SOC. JAPAN, PURE CHEM. SECT.), 92, 699, 1971 IN JAPANESE
- 225 72 098 MATHUR BP
EFFECT OF CHEMICAL EXCHANGE BETWEEN O₂ AND HBR ON THE THERMAL DIFFUSION SEPARATION OF D AND H IN A
TRENNISCHAUKE
J. CHEM. PHYS., 55, 3966, 1971
- 225 72 099 MATSUO M MATSUO T DEGUCHI T
HYDROGEN EXCHANGE REACTION OF AMINO BENZOIC ACID. 2. PLATINUM CATALYZED HYDROGEN EXCHANGE REACTION
CHEM. PHARM. BULL. (TOKYO), 20, 990, 1972

- 225 72 100 MATVIJEN AV PONDOMARE LI
NUMBER OF VIBRATIONAL LEVELS OF MOLECULAR HYDROGEN ION
J. PHYS. B, 5, 27, 1972
- 225 72 101 MCCARROLL R PIACENTINI RD
DIFFERENTIAL CROSS SECTIONS FOR ELASTIC SCATTERING, RESONANT CHARGE EXCHANGE, AND EXCITATION IN LOW
ENERGY PROTON-HYDROGEN COLLISIONS
J. PHYS. B, 5, 886, 1972
- 225 72 102 MCELWAIN DS PRITCHARD HO
MASTER EQUATION FOR THE DISSOCIATION OF A DILUTE DIATOMIC GAS. 5. EFFECT OF ENERGY LEVEL SPACING
CAN. J. CHEM., 49, 3916, 1971.
- 225 72 103 MICHAEL JV
DETERMINATION OF ELEMENTARY REACTION RATE CONSTANTS FOR THE REACTION OF HYDROGEN ATOMS WITH VARIOUS
SUBSTRATE MOLECULES IN THE GAS PHASE
NYO-3794-13, ANNUAL PROGRESS REPORT, 1970 - 1971, SEPT. 1971, 101P. COO-3242-4, ANNUAL PROGRESS
REPORT, 1971 - 1972, SEPT. 1972, 95P. CARNEGIE-MELLON UNIV., PITTSBURG, PA., DEPT. OF CHEMISTRY
- 225 72 104 MILLET FS DAILEY BP
NMR DETERMINATION OF SOME DEUTERIUM QUADRUPOLE COUPLING CONSTANTS IN NEMATIC SOLUTIONS
J. CHEM. PHYS., 56, 3249, 1972
- 225 72 105 MISAKIAN M
FINAL STATES IN DISSOCIATIVE EXCITATION OF MOLECULAR HYDROGEN
THESIS, UNIV. OF MICHIGAN, ANN ARBOR, 1971, 80P. UNIV. MICROFILMS ORDER NO. 71-23,830
- 225 72 106 MISAKIAN M ZORN JC
FINAL STATES IN THE DISSOCIATIVE EXCITATION OF MOLECULAR HYDROGEN
PHYS. REV. LETT., 27, 174, 1971
- 225 72 107 NIELSEN SE BERRY RS
DYNAMIC COUPLING PHENOMENA IN MOLECULAR EXCITED STATES. 3. ASSOCIATIVE IONIZATION AND DISSOCIATIVE
RECOMBINATION IN H₂
PHYS. REV., 4A, 865, 1971
- 225 72 108 OLIVER YP
TOTAL LOSS CROSS SECTIONS FOR D₂ MOLECULES PASSING THROUGH H₂ GAS
UCRL-20099, THESIS, CALIFORNIA UNIV., BERKELEY, APRIL 1971, 26P. LAWRENCE RADIATION LAB.
- 225 72 109 PAQUETTE LA WILSON SE
SILVER(I) ION CATALYZED REARRANGEMENTS OF STRAINED SIGMA BONDS. 8. DEUTERIUM ISOTOPE EFFECTS IN THE
BOND REORGANIZATIONS OF TRICYCLO(4.1.0.0(2.7))HEPTANES
JACS, 93, 5934, 1971
- 225 72 110 PRESTON RK TULLY JC
EFFECTS OF SURFACE CROSSING IN CHEMICAL REACTIONS: THE H₃ SYSTEM
J. CHEM. PHYS., 54, 4297, 1971
- 225 72 111 RACHKOVSKII EE BORESKOV GK
MECHANISM OF ISOTOPE EXCHANGE IN THE SYSTEM H₂-H₂O ON SOME OXIDE CATALYSTS
KINET. CATAL. USSR (ENGL. TRANS.), 11, 1176, 1970. TRANSLATED FROM KINET. KATAL., 11, 1410, 1970
- 225 72 112 RAPP D DINWIDDIE D STORM D SHARP TE
COUPLED STATE CALCULATIONS OF H(1)-H SCATTERING
PHYS. REV., 5A, 1290, 1972
- 225 72 113 ROBINSON BK
ANALYSIS OF HYDROGEN AND TRITIUM CONTENT OF GRAPHITE AND OTHER MATERIALS
AEEM-M-1028, ATOMIC ENERGY ESTABLISHMENT, WINFRITH, ENGLAND, APRIL 1971, 18P
- 225 72 114 ROCHARD E RAVOIRE J
ALKALINE AMIDE SOLUTIONS IN AMINES. ISOTOPIC EXCHANGE WITH MOLECULAR HYDROGEN
J. CHIM. PHYS., 68, 1183, 1971 IN FRENCH
- 225 72 115 ROLSTON JH GOODALE JW
ISOTOPIC EXCHANGE BETWEEN HYDROGEN AND WATER VAPOR OVER SUPPORTED METAL CATALYSTS. 1. KINETICS OF
EXCHANGE
CAN. J. PHYSIOL. PHARMACOL., 50, 1900, 1972
- 225 72 116 ROWLAND PR
1. MAXIMUM THEORETICAL H/D SEPARATION FACTOR AND ITS APPLICATION TO REAL SYSTEMS. 2. ELECTROLYTIC H/
D SEPARATION FACTOR AGREEMENT OF EXPERIMENTAL WITH HYPOTHETICAL MAXIMUM VALUE
AEEM-R-717 AND 718, ATOMIC ENERGY ESTABLISHMENT, WINFRITH, ENGLAND, JAN. 1971, 41P AND 43P
- 225 72 117 RUDDOLPH AW CARROLL TE DAVIDSON RS
TRITIUM AND ITS EFFECTS IN THE ENVIRONMENT: A SELECTED LITERATURE SURVEY
BNI-171-203, BATTELLE-COLUMBUS LABS., OHIO, JUNE 1971, 378P
- 225 72 118 RUMMEL S HUEBNER H
ISOTOPE EFFECTS IN AUTOXIDATION. 2. OXIDATION OF C₁₁H₂₄/C₁₁D₂₄ AND POLYSTYRENE/POLYSTYRENE-(ALPHA,
BETA-O3) INITIATED BY THERMAL, PHOTOLYTIC OR RADIOLYTIC PROCESSES
ISOTOPENPRAXIS, 7, 462, 1971 IN GERMAN
- 225 72 119 SAGERT NH POUTEAU RML
SPECIFIC ACTIVITY OF SILICA SUPPORTED PLATINUM FOR THE CATALYSIS OF HYDROGEN-WATER-DEUTERIUM
EXCHANGE
CAN. J. CHEM., 49, 3411, 1971. AELL-9004
- 225 72 120 SAHA S MULLICK K BARUA AK
EFFECT OF DIPOLE MOMENT ON COLLISION INDUCED DISSOCIATION OF HD(+) ION BY ELECTRON IMPACT
J. PHYS. B, 5, 1369, 1972
- 225 72 121 SALOMAA P
SOLVENT DEUTERIUM ISOTOPE EFFECTS IN ACID-BASE REACTIONS. 7. SEPARATION OF OVERALL ISOTOPE EFFECT IN
DISSOCIATION OF PICRIC ACID INTO TRANSFER AND ISOTOPE EXCHANGE REACTIONS
SUOMEN KEM., 46, 149, 1972
- 225 72 122 SATO T OHKOSHI S TAKAHASHI T
EFFECT OF ADSORPTION OF CARRIER GAS IN GAS-SOLID CHROMATOGRAPHY: THEORY AND ITS APPLICATION TO THE
SEPARATION OF HYDROGEN ISOTOPES
J. CHROMATOGR., 65, 413, 1972

- 225 72 123 SAUERS I FITZWILSON RL FORD JC THOMAS EW
ANGULAR DISTRIBUTION OF METASTABLE HYDROGEN FORMED BY DISSOCIATION OF H₂(+)
PHYS. REV., 6A, 1418, 1972
- 225 72 124 SAVCHENKO VI BORESKOV GK GORODETSKII VV
HYDROGEN-DEUTERIUM EXCHANGE AT LOW TEMPERATURES
KINET. KATAL., 12, 766, 1971 IN RUSSIAN
- 225 72 125 SAXON RP LIGHT JC
1. CROSS SECTIONS FOR PLANAR REACTIVE COLLISIONS OF H + H₂. 2. QUANTUM CALCULATIONS OF PLANAR
REACTIVE H + H₂. I. THEORY. II. APPLICATION
J. CHEM. PHYS., 55, 455, 1971 AND 56, 3874 AND 3885, 1972
- 225 72 126 SCHEPPELE SE MILLER DW GRIZZLE PL MAUCERI FA
CLASSICAL MECHANICAL ISOTOPE EFFECT. EFFECT OF RING DEUTERIUM ON THE RATE OF PYROLYSIS OF 1,1'-
DIPHENYLAZOETHANE
JACS, 93, 2549, 1971
- 225 72 127 SCHNEIDER ME STERN MJ
ARRHENIUS PREEXPONENTIAL FACTORS FOR PRIMARY HYDROGEN KINETIC ISOTOPE EFFECTS
JACS, 94, 1517, 1972
- 225 72 128 SCHWETLICK K UNVERFERTH K
KINETICS OF ACID CATALYZED HYDROGEN ISOTOPE EXCHANGE IN THIOPHENE, FURAN, SELENOPHENE, AND PYRROLE,
AS WELL AS FURAN HYDROLYSIS
WISS. Z. TECH. HOCHSCH. CHEM. LEUNA-MERSEBURG, 12, NO. 3-4, 230, 1970 IN GERMAN
- 225 72 129 SHINER VJ
DEUTERIUM ISOTOPE EFFECTS IN SOLVOLYTIC SUBSTITUTION AT SATURATED CARBON
PP. 90-159 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS, COLLINS, C.J. (ED.), VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 128 REFERENCES
- 225 72 130 SIEGEL S OHRT DW
KINETIC HYDROGEN ISOTOPE EFFECTS IN THE CATALYTIC HYDROGENATION OF ALKENES
J. CHEM. SOC. D, P1529, 1971
- 225 72 131 SIL NC GHOSH AS
E-H SCATTERING BY THE FADDEEV APPROACH
PHYS. REV., 5A, 2122, 1972
- 225 72 132 SILVESTER LF KIM JJ ROCK PA
THERMODYNAMICS OF HYDROGEN ISOTOPE EXCHANGE REACTIONS. 1. ELECTROCHEMISTRY IN DIMETHYLFORMAMIDE
J. CHEM. PHYS., 56, 1863, 1972
- 225 72 133 SMITH FR HAMMERLI M
HYDROGEN/DEUTERIUM SEPARATION FACTORS ON CATHODE AND DIFFUSION SIDES OF 25 PERCENT AG-PD FOILS
Z. PHYS. CHEM. (FRANKFURT), 74, 75, 1971
- 225 72 134 SMITH RL TRUHLAR DG
APPLICATION OF EXPANSION TECHNIQUE OF HARRIS AND MICHELS TO ELECTRON-HYDROGEN INELASTIC SCATTERING
PHYS. LTRS. 39A, 35, 1972
- 225 72 135 STARK GR
ASPARATE TRANSCARBAMYLASE: USE OF PRIMARY KINETIC AND SOLVENT DEUTERIUM ISOTOPE EFFECTS TO DELINEATE
SOME ASPECTS OF THE MECHANISM
J. BIOL. CHEM., 246, 3064, 1971
- 225 72 136 STEFFENS JJ CHIPMAN DM
REACTIONS OF DIHYDRONICOTINAMIDES. 1. EVIDENCE FOR AN INTERMEDIATE IN THE REDUCTION OF
TRIFLUOROACETOPHENONE BY 1-SUBSTITUTED DIHYDRONICOTINAMIDES
JACS, 93, 6694, 1971
- 225 72 137 STERN MJ SCHNEIDER ME VOGEL PC
LOW MAGNITUDE, PURE PRIMARY, HYDROGEN KINETIC ISOTOPE EFFECTS AND ERRATUM
J. CHEM. PHYS., 55, 4286, 1971 AND 56, 3192, 1972
- 225 72 138 STONE EJ ZIPP EC
EXCITATION OF WERNER BANDS OF H₂ BY ELECTRON IMPACT
J. CHEM. PHYS., 56, 4646, 1972. AD-745 243, 1971
- 225 72 139 SUNKO DE BORCIC S
SECONDARY DEUTERIUM ISOTOPE EFFECTS AND NEIGHBORING GROUP PARTICIPATION
PP. 160-212 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS, COLLINS, C.J. (ED.), VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 93 REFERENCES
- 225 72 140 SYMONS EA BUNCLE E
ISOTOPIC EXCHANGE OF MOLECULAR HYDROGEN IN DIMETHYL SULFOXIDE-WATER MIXTURES UNDER BASE CATALYSIS
JACS, 94, 3641, 1972
- 225 72 141 TAAGEPERA M THORNTON ER
SECONDARY DEUTERIUM ISOTOPE EFFECTS. THE TRANSITION STATE IN THE REVERSE DIELS-ALDER REACTION OF 9
-10-DIHYDRO-9,10-ETHANOANTHRACENE. A POTENTIALLY GENERAL METHOD FOR EXPERIMENTALLY DETERMINING
TRANSITION STATE SYMMETRY AND DISTINGUISHING CONCERTED FROM STEPWISE MECHANISMS
JACS, 94, 1168, 1972
- 225 72 142 TAYLOR GN HAMMOND GS
DEUTERIUM ISOTOPE EFFECTS IN QUENCHING OF AROMATIC HYDROCARBON FLUORESCENCE BY CONJUGATED DIENES
JACS, 94, 3687, 1972
- 225 72 143 THOMAS BK GERJUOY E
GLAUBER AMPLITUDES IN CHARGED PARTICLE-HYDROGEN ATOM COLLISIONS
J. MATH. PHYS. (NEW YORK), 12, 1567, 1971
- 225 72 144 TOMASZ M OLSON J MERCADO CM
MECHANISM OF THE ISOTOPIC EXCHANGE OF THE C-8 HYDROGEN OF PURINES IN NUCLEOSIDES AND IN
DEOXYRIBONUCLEIC ACID
BIOCHEM., 11, 1238, 1972
- 225 72 145 TORTOREL J HARRIMAN J
HYPERFINE COUPLING CONSTANTS FOR THE HYDROGEN MOLECULAR ION
PB-204 010. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1971

- 225 72 146 TRAHANOVSKY WS BOHLEN DM
HETEROGENEOUS CATALYTIC DEUTERATION OF SUBSTITUTED BENZENES IN ACETIC ACID-D1
J. ORG. CHEM., 37, 2192, 1972
- 225 72 147 TRAUZEDDEL R HUEBNER H WETZEL K
ISOTOPE EFFECTS IN AUTOXIDATION. 9. COMPARISON OF THERMAL AND THERMO-OXIDATIVE STABILITY OF
DEUTERATED AND NORMAL PVC
ISOTOPENPRAXIS, 6, 476, 1970. IN GERMAN
- 225 72 148 TRICHET J SIMONET G GUELLAFF JP
IMPROVED SYSTEM FOR PRODUCING DEUTERIUM
FRENCH PATENT 2,055,852, APRIL 19, 1971. TO L'AIR LIQUIDE. FILED AUGUST 1, 1969. IN FRENCH
- 225 72 149 TRIPATHI AN MATHUR KC JOSHI SK
EXCITATION OF HYDROGEN ATOMS BY PROTON IMPACT
PHYS. LETT., 36A, 161, 1971
- 225 72 150 TRUHLAR DG KUPPERMANN A
EXACT AND APPROXIMATE QUANTUM MECHANICAL REACTION PROBABILITIES AND RATE CONSTANTS FOR COLLINEAR H +
H2 REACTION
J. CHEM. PHYS., 56, 2232, 1972
- 225 72 151 TSUCHIYA S PONEC V SACHTLER WMH
HYDROGEN-DEUTERIUM EXCHANGE WITH ANTHRACENE-POTASSIUM AND ANTHRACENE-SODIUM COMPLEXES
J. CATAL., 22, 280, 1971
- 225 72 152 TULLY JC PRESTON RK
TRAJECTORY SURFACE HOPPING APPROACH TO NONADIABATIC MOLECULAR COLLISIONS: THE REACTION OF H(+) WITH
D2
J. CHEM. PHYS., 55, 562, 1971
- 225 72 153 URBANDVICH SI
DETERMINATION OF INTERACTION ENERGY OF ISOTOPES OF ATOMIC HYDROGEN WITH MEDIA
ZH. PRIKL. SPEKTROSK., 13, 560, 1970 IN RUSSIAN
- 225 72 154 VAN CAUWE FH HALL WK
STUDIES OF HYDROGEN HELD BY SOLIDS. 20. CHROMATOGRAPHIC SEPARATION OF ISOTOPIC AND ALLOTROPIC
HYDROGENS ON ALUMINA AND FLUORIDED ALUMINA
J. COLLOID INTERFACE SCI., 38, 138, 1972
- 225 72 155 VAN DER HO LD BUCK HM DE HAAN JW
PROTON-DEUTERON EXCHANGE IN TETRAARYLCYCLOBUTENYL CATIONS. ADDITIONAL EVIDENCE OF HOMOCYCLOPROPENYL
CATIONS FROM CALCULATED AND C(13) NMR EXPERIMENTAL CHARGE DENSITIES
REC. TRAV. CHIM., 91, 164, 1972
- 225 72 156 VAN URK P LINDNER L
GAS CHROMATOGRAPHIC SEPARATION AND QUANTITATIVE DETERMINATION OF THE SIX ISOTOPIC HYDROGEN MOLECULES
INT. J. APPL. RADIAT. ISOTOP., 23, NO. 5, 239, 1972
- 225 72 157 VANALBAD MP CERFONTA H
AROMATIC SULFONATION. 32. KINETIC ISOTOPE EFFECT OF HYDROGEN IN SULFONATION AND SULFONYLATION OF
BENZENE
REC. TRAV. CHIM., 91, 499, 1972
- 225 72 158 VON BUSCH F DUNN GH
PHOTODISSOCIATION OF H2(+) AND D2(+): EXPERIMENT

PHYS. REV., 5A, 1726, 1972
- 225 72 159 VOSTROKN ZN SHTEINMA AA
ISOTOPE EXCHANGE BETWEEN METHANE AND DEUTERIUM IN A STRONGLY ACIDIC MEDIUM
KINET. KATAL., 13, 324, 1972 IN RUSSIAN
- 225 72 160 WATANABE K KONDO T SOMA M ONISHI T TAMARU K
HYDROGEN-DEUTERIUM EQUILIBRATION REACTION CATALYSED BY GRAPHITE-POTASSIUM COMPOUNDS
J. CHEM. SOC. D, P39, 1972
- 225 72 161 WICKE E
ISOTOPE EFFECTS IN PALLADIUM-HYDROGEN SYSTEMS. THE CONCENTRATION OF DEUTERIUM AND TRITIUM
PLATINUM METALS REV., 15, NO. 4, 144, 1971
- 225 72 162 WINTER REK HUNIG ML
DEUTERIUM ISOTOPE EFFECTS ON THERMAL CYCLOBUTENE ISOMERIZATIONS. AN INVESTIGATION OF COMPETITIVE
CONROTATORY RING OPENINGS
JACS, 93, 4616, 1971
- 225 72 163 WISWALL RH REILLY JJ
INVERSE HYDROGEN ISOTOPE EFFECTS IN SOME METAL HYDRIDE SYSTEMS
INORG. CHEM., 11, 1691, 1972
- 225 72 164 WOOD GD
ISOTOPE EXCHANGE VS ABSTRACTION FOR H + DCL
J. CHEM. PHYS., 56, 1723, 1972
- 225 72 165 WOODWARD MR
PERTURBED GENERALIZED EIGENVALUE EQUATIONS FOR HYDROGEN MOLECULAR ION
INT. J. QUANT. CHEM., 6, 911, 1972
- 226 72 166 WU S MARCUS RA
ANALYTICAL MECHANICS OF CHEMICAL REACTIONS. 6. ROTATIONAL AND VIBRATIONAL DISTRIBUTIONS OF H + H2
REACTION IN A PLANE
J. CHEM. PHYS., 56, 3519, 1972
- 225 72 167 YAKUSHIN FS VUKMIROVICH I YAKOVLEVA EA
KINETIC ISOTOPE EFFECT UPON HYDROGEN EXCHANGE OF M-CARBORANE WITH BASES
KINET. KATAL. USSR (ENGL. TRANS.), 11, 1189, 1970. TRANSLATED FROM KINET. KATAL., 11, 1426, 1970
- 225 72 168 YAKUSHIN FS RANNEVA YI MARCHENKO VA RCMANSKII IA SHATENSHTEIN AI
ISOTOPE EFFECT IN CATALYZED HYDROGEN EXCHANGE REACTION
KINET. KATAL., 12, 591, 1971 IN RUSSIAN

- 225 72 169 ZHIRNOV NI VASILEVSKII AS
NEW METHOD FOR CONSTRUCTING THE POTENTIAL CURVES OF DIATOMIC MOLECULES ON THE BASIS OF SPECTROSCOPIC DATA. 4. THE POTENTIAL CURVE OF THE GROUND ELECTRONIC STATE OF THE H₂ MOLECULE.
OPT. SPECTROSC. USSR (ENGL. TRANS. 1. 29. 352. 1970. TRANSLATED FROM OPT. SPEKTRISK. 29. 658. 1970
- 225 72 170 ZOLTIEWICZ JA. KANDETZKI PE
KINETICS AND MECHANISM OF HYDROGEN-DEUTERIUM EXCHANGE IN THE METHYL GROUPS OF PYRIDINES IN DILUTE AQUEOUS ACID. FACTORS INFLUENCING THE DEGREE OF CATALYSIS
JACS. 93. 6562. 1971
- 230 72 001 AGOSTINI JP
OBTAINING OF HEAVY WATER BY THE DUAL TEMPERATURE H₂S PROCESS
CEA-R-4217. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES. OCT. 1971. 121P IN FRENCH
- 230 72 002 ALEKSAN Z IONESKY E
CORRELATION OF SOME CHARACTERISTIC PARAMETERS OF THE WATER IN THE PRIMARY LOOP OF A REACTOR UNDER OPERATING CONDITIONS, EMPLOYING CHEMICAL, PHYSIOCHEMICAL, AND SPECTROSCOPIC MEANS
IFA-ER-89. INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA. 1972. 16P IN RUSSIAN
- 230 72 003 ANDELMAN JB ROZZELL TC
PLUTONIUM IN THE WATER ENVIRONMENT. 1. CHARACTERISTICS OF AQUEOUS PLUTONIUM
ADVANCE CHEM. SER., NO. 93, 118-37. 1970. FROM MEETING ON RADIONUCLIDES IN THE ENVIRONMENT, SAN FRANCISCO, CALIFORNIA, APRIL 1. 1968
- 230 72 004 ANSPAUGH LR KORANDA JJ. ROBISON WL. MARTIN JR
DOSE TO MAN VIA FOOD CHAIN TRANSFER RESULTING FROM EXPOSURE TO TRITIATED WATER VAPOR
UCRL-73195 (REV. 1). CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., REVISED JULY 13, 1972. 30P.
CONF-710809-19. FROM TRITIUM SYMPOSIUM, LAS VEGAS, NEVADA, AUG. 30. 1971
- 230 72 005 BALDWIN S BROWN C
DETECTION OF IONIC WATER POLLUTANTS BY LASER EXCITED RAMAN SPECTROSCOPY
WATER RES. 6. 1601. 1972
- 230 72 006 BANCROFT AR RAE HK
HEAVY WATER PRODUCTION BY AMINE-HYDROGEN EXCHANGE
PP 47-66 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971. FROM SYMPOSIUM, TURIN, ITALY, SEPT.-OCT. 1970. CONF-700925
- 230 72 007 BANKERT SF SAUTER GO BLOOM SD
CHARGED PARTICLE ACTIVATION ANALYSIS FOR TRACE IMPURITIES IN WATER
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19. 191. 1972. FROM NUCLEAR SCIENCE SYMPOSIUM, SAN FRANCISCO, CALIF., NOV. 3. 1971. CONF-711111
- 230 72 008 BARNES CA SMITH JD
COLUMBIA RIVER EFFECTS IN THE NORTHEAST PACIFIC: PHYSICAL STUDIES
RLD-2225-T-25-6. PROGRESS REPORT, JUNE 1971 - JUNE 1972. WASHINGTON UNIV., SEATTLE, DEPT. OF OCEANOGRAPHY, JULY 1972. 12P. NTIS
- 230 72 009 BEETEM WA GROVE DB WASHINGTON CL JANZER VJ SCHRODER LJ
YOUNG RA
1. CHEMICAL AND RADIOCHEMICAL DATA FOR DOMESTIC SUPPLY WELLS AND SURFACE WATER SAMPLES IN THE VICINITY OF TATUM SALT DOME, LAMAR COUNTY, MISSISSIPPI. 2. RADIOCHEMICAL ANALYSES OF WATER SAMPLES COLLECTED ON ANCHITKA ISLAND, ALASKA. 3. CHEMICAL ANALYSES OF WATER SAMPLES COLLECTED ON ANCHITKA ISLAND, ALASKA. ANCHITKA-29
1. USGS-474-120. 1966. 85P. 2. USGS-474-123. 1971. 40P. 3. USGS-474-135. 1971. 23P. GEOLOGICAL SURVEY, DENVER, COLO.
- 230 72 010 BHANDARKAR MK BHATTACHARYA S GAUR BK
PHYSIOLOGICAL STUDIES WITH HEAVY WATER. 2. GERMINATION AND GROWTH INHIBITION OF BARLEY BY D₂O
PHYSIOL. PLANT, 24. 517. 1971
- 230 72 011 BHARGAVA RK SADHUKHAN HK SENHAL IJS DESHPANDE PG
DESIGN CRITERIA FOR HEAVY WATER PLANT BASED ON H₂S-H₂O EXCHANGE PROCESS
PP 209-26 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971. CONF-700925
- 230 72 012 BISHNATH KS
OPERATIONAL AND ECONOMIC ASPECTS OF HEAVY WATER PRODUCTION AT NANGAL BASED ON LIQUID HYDROGEN DISTILLATION
PP 255-67 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971. FROM SYMPOSIUM, TURIN, ITALY, SEPT.-OCT. 1970. CONF-700925
- 230 72 013 BOTTER F DIRIAN G PAULY J ROTH E
PROCESS FOR THE RE-ENRICHMENT OF HYDROGEN DEPLETED IN DEUTERIUM IN A PLANT FOR THE PRODUCTION OF DEUTERATED PRODUCTS, PARTICULARLY HEAVY WATER
FRENCH PATENT 2,041,395. JANUARY 18, 1971. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. FILED APRIL 23, 1969. IN FRENCH
- 230 72 014 BRACCIFORTI L CABELLA A VALENTINI PD
PROBLEMS RELATED TO THE DESIGN OF A PLANT FOR THE PRODUCTION OF HEAVY WATER: CONTRIBUTION OF AGIP NUCLEARE
PP 139-72 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971. CONF-700925
- 230 72 015 BRIGOLI B ASCOLI A
EFFICIENCY OF A CONCURRENT MASS EXCHANGE PLATE
PP 103-16 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971. FROM SYMPOSIUM, TURIN, ITALY, SEPT.-OCT. 1970. CONF-700925
- 230 72 016 CLAASSEN HC VOEGELI PT
1. RADIOCHEMICAL ANALYSES OF WATER SAMPLES FROM SELECTED STREAMS AND PRECIPITATION COLLECTED IN CONNECTION WITH CALIBRATION TEST FLARING OF GAS FROM TEST WELL, AUG. 15 - OCT. 13, 1970. PROJECT RULISON. 2. RADIOCHEMICAL ANALYSES OF WATER SAMPLES FROM SELECTED STREAMS AND PRECIPITATION COLLECTED OCT. 23 - NOV. 9, 1970. IN CONJUNCTION WITH THE 1ST PRODUCTION TEST FLARING OF GAS FROM TEST WELL. PROJECT RULISON. 3. RADIOCHEMICAL ANALYSIS OF WATER FROM SELECTED STREAMS AND PRECIPITATION COLLECTED IMMEDIATELY BEFORE AND AFTER 2ND PT FLARING
USGS-474-107. 1971. 10P. PNE-R-49. RULISON-8. USGS-474-108. 1971. 10P. PNE-R-50. RULISON-9. USGS-474-122. 1971. 10P. PNE-R-56. RULISON-10. GEOLOGICAL SURVEY, DENVER, COLORADO

- 230.72 017 CONRAD G OLIVE P
PRELIMINARY DATA ON THE TRITIUM CONTENT OF AQUIFER SHEETS IN NORTHWEST AND CENTRAL (ALGERIA) SAHARA:
HYDROGEOLOGICAL CONSEQUENCES
COMPT. REND., SER. D, 274, 2019, 1972 IN FRENCH
- 230.72 018 CROUZET E HUBERT P OLIVE P SIWERTZ E MARCE A
TRITIUM IN INVESTIGATION OF SURFACE HYDROLOGY. EXPERIMENTAL DETERMINATION OF COEFFICIENT OF RUNOFF
CSIRO-TRANS-10787, TRANSLATED FOR COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION,
AUSTRALIA, FROM J. HYDROL., 11, 217, 1970, 5P
- 230.72 019 DENKO EI
EFFECT OF HEAVY WATER (D₂O) ON ANIMAL AND PLANT CELLS AND MICROORGANISMS
USP. SOVREM. BIOL., 70, NO. 1, 41-64, 1970 IN RUSSIAN, 138 REFERENCES
- 230.72 020 DIEHL G
SYSTEMS ANALYSIS OF METHODS FOR MEASURING TRACE DISSOLVED ORGANIC MATTER IN SEAWATER
AD-728 665, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971.
- 230.72 021 DINWIDDIE GA SCHRODER LJ
SUMMARY OF HYDRAULIC TESTING IN AND CHEMICAL ANALYSES OF WATER SAMPLES FROM DEEP EXPLORATORY HOLES
IN LITTLE FISH LAKE, MONITOR, HOT CREEK, AND LITTLE SMOKY VALLEYS, NEVADA
USGS-474-90, GEOLOGICAL SURVEY, DENVER, COLO., 1971, 70P
- 230.72 022 DIRIAN G ROTH E
METHOD AND APPARATUS FOR THE PURIFICATION OF HEAVY WATER
BRITISH PATENT 1,247,590, SEPT. 22, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, PRIORITY DATE JUNE
21, 1968, FRANCE
- 230.72 023 DUGAN PR
BIOCHEMICAL ECOLOGY OF WATER POLLUTION
BOOK, PLENUM PRESS, NEW YORK, 1972, 169P
- 230.72 024 EHRLH DM
VERTICAL PROFILES AND TRANSPORT OF H₂O IN THE TROPOSPHERE
J. GEOPHYS. RES., 76, 7351, 1971
- 230.72 025 FAURE J
ROLE OF ORGANIC MATERIALS IN A WATER COURSE WITH RESPECT TO RADIOACTIVE CONTAMINATION, METHOD OF
EXTRACTION, FRACTIONATION, AND IDENTIFICATION OF ORGANIC CONSTITUENTS BY SPECTROSCOPY AND THEIR
AFFINITY TO RADIONUCLIDES
CEA-R-4335, COMMISSARIAT A L'ENERGIE ATOMIQUE, CADARACHE, FRANCE, CENTRE D'ETUDES NUCLEAIRES, AUG.
1972, 63P IN FRENCH, TRANSLATED IN ANL-TRANS-943, 1972, 27P, NTIS
- 230.72 026 GLOYNA EF YOUSEF YA PADDEN TJ
RADIOACTIVITY TRANSPORT IN WATER: CONTINUOUS RELEASE OF RADIONUCLIDES IN A SMALL ECOSYSTEM
ORD-490-21, TECHNICAL REPORT, TEXAS UNIV., AUSTIN, DEPT. OF CIVIL ENGINEERING, SEPT. 1971, 78P,
EHE-71-1, CRWR-75
- 230.72 027 GUTOWSKI H
TECHNICAL DEVELOPMENTS OF THE LOW TEMPERATURE PROCESS FOR HEAVY WATER RECOVERY AND ITS ECONOMIC
RESULTS
PP 91-101 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER, COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971, FROM SYMPOSIUM, TURIN, ITALY, SEPT.-OCT. 1970, CONF-700925
- 230.72 028 HALLABA E ALY AIM

LABORATORY ENRICHMENT OF HEAVY WATER BY ELECTROLYSIS, 1. DESIGN OF ELECTROLYTIC CELLS AND
CALCULATION OF THE MEAN CURRENT DENSITY, 2. EFFECT OF CURRENT DENSITY, CATHODE MATERIAL, AND
TEMPERATURE ON THE SEPARATION FACTOR
ISOTOPENPRAXIS, 7, 427 AND 456, 1971
- 230.72 029 HARTMANN F GISLER HR
METHOD AND APPARATUS FOR TREATING PREENRICHED AMMONIA
UNITED STATES PATENT 3,644,093, FEB. 22, 1972, TO SULZER BROTHERS, LTD, PRIORITY DATE MAY 8, 1968,
SWITZERLAND
- 230.72 030 HITES RA BIEMANN K
ORGANIC COMPOUNDS IN CHARLES RIVER, BOSTON, MASSACHUSETTS
SCIENCE, 178, 158, 1972
- 230.72 031 HOFFMANN-BUECHLER M
DISTRIBUTION OF HEAVY WATER IN THE CONJUGATED PHASE OF THE TRIETHYLAMINE-WATER SYSTEM
RADIOCHIM. ACTA, 16, 110, 1971 IN GERMAN
- 230.72 032 HUGHES MW DIGHTON JC
TRITIUM CONCENTRATION OF A VARIETY OF WATER SAMPLES, FIFTH LISTING
NP-19391, COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ADELAIDE, AUSTRALIA, DIV. OF
SOILS, 1971, 6P
- 230.72 033 IL'NITSKII AP ERSHOVA KP KHESINA AY
STABILITY OF CANCEROGENIC SUBSTANCES IN WATER AND THE EFFICACY OF METHODS OF ITS DECONTAMINATION
GIG. SANIT., NO. 4, 8, 1971 IN RUSSIAN
- 230.72 034 JENKINS SH
ADVANCES IN WATER POLLUTION RESEARCH, PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE HELD IN
PRAGUE, APRIL 21-25, 1969
BOOK, PERGAMON PRESS, NEW YORK, 1969, 946P, CONF-690463, 55 PAPERS
- 230.72 035 JOLLY RL PITT WW SCOTT CD
HIGH RESOLUTION ANALYSES OF REFRACTORY ORGANIC CONSTITUENTS IN AQUEOUS WASTE EFFLUENTS
CONF-730401-3, OAK RIDGE NATIONAL LAB., TENN., 1972, 23P, FROM 19TH ANNUAL TECHNICAL MEETING AND
EQUIPMENT EXPOSITION OF THE INSTITUTE OF ENVIRONMENTAL SCIENCES, ANAHEIM, CALIF., USA, APRIL 1,
1973
- 230.72 036 KELLY JA
1. SOURCES, SINKS, AND METHODS OF ANALYSIS OF ORGANIC NITROGEN COMPOUNDS IN FRESH WATER SYSTEMS, 2.
DETERMINATION OF PHENOLIC TYPE COMPOUNDS IN WATER AND INDUSTRIAL WASTE WATERS
1. ORD-4254-10, 1971, 31P, 46 REFERENCES, 2. ORD-4254-11, 1972, 28P, 45 REFERENCES, OKLAHOMA STATE
UNIV., STILLWATER, OKLAHOMA, NTIS

- 230 72 037 KIRCHNER HH
INFRARED SPECTROSCOPIC INVESTIGATIONS ON D₂O AND HDO DISSOLVED IN ORGANIC SOLVENTS
Z. PHYS. CHEM. (FRANKFURT), 73, 169, 1970 IN GERMAN
- 230 72 038 KLUGE H
IMPROVEMENTS IN OR RELATING TO THE PRODUCTION OF HEAVY WATER
BRITISH PATENT 1,224,946, MARCH 10, 1971, TO STEINKOHLN-ELEKTRIZITÄT AKTIENGESellschaft, PRIORITY
DATE JUNE 6, 1968, GERMANY
- 230 72 039 KORTUS J ZOCH O
INDUSTRIAL PRODUCTION OF HEAVY WATER
JAD. ENERGO., 17, NO. 9, 291, 1971 IN CZECH
- 230 72 040 LAMBERT BE SHARPE HBA DAWSON KB
ACCIDENTAL INTAKE OF TRITIATED WATER
AMER. IND. HYG. ASSOC. J., 32, 682, 1971
- 230 72 041 LAMBERT I RAVOIRE J ROCHARD E
PURIFICATION PROCESS OF ISOTOPE EXCHANGE AGENTS OR ADJUVANTS TO ISOTOPE EXCHANGE AGENTS USED IN
HEAVY WATER PRODUCTION
FRENCH PATENT 2,041,455, JAN. 18, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, FILED APRIL 24, 1969,
IN FRENCH
- 230 72 042 LANG G SCHINDEWOLF U
OPTIMIZATION OF A HEAVY WATER ENRICHMENT PLANT BASED ON H₂/NH₃ EXCHANGE AND OPERATING BY THE HOT/
COLD PRINCIPLE
CHEM.-ING.-TECH., 43, 804, 1971 IN GERMAN
- 230 72 043 LAVRENCIC D
HEAVY WATER PRODUCTION, INDUSTRIAL PROCESSES, AND PLANTS. A BIBLIOGRAPHY, 1946 - 1970
DAISE-70-8, COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY, 1970, 314P
- 230 72 044 LEFRANCOIS B
HEAVY WATER PLANT AT MAZINGARBE, DESCRIPTION AND OPERATION
PP 197-208 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER, COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971, CONF-700925
- 230 72 045 LESUR P VIRATELLE J
IMPROVED PROCESS FOR PREPARING HEAVY WATER BY ISOTOPIC EXCHANGE (NONOTHERMIC TYPE) BETWEEN AMMONIUM
GAS AND SYNTHESIS GASES
FRENCH PATENT 2,056,050, APRIL 19, 1971, TO SOCIETE CHIMIQUE DES CHARBONNAGES, COMMISSARIAT A L'
ENERGIE ATOMIQUE, FILED AUGUST 25, 1969, IN FRENCH
- 230 72 046 LEVEQUE PC
EVOLUTION OF TRITIUM ACTIVITIES IN SUPERFICIAL WATERS FROM AUSTRIA TO THE AQUITAINE SHORE BETWEEN
1968 AND 1970
COMPT. REND., SER. D, 273, 19, 1971 IN FRENCH
- 230 72 047 MANCY KH WEBER WJ
ANALYSIS OF INDUSTRIAL WASTE WATERS
BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS, INC., NEW YORK, 1972, 160P
- 230 72 048 MANDEL H
PROCESS FOR THE PRODUCTION OF DEUTERIUM ENRICHED WATER
BRITISH PATENT 1,234,906, JUNE 9, 1971, TO RHEINISCH-WESTFALISCHES ELEKTRIZITÄTswerk
AKTIENGESellschaft, PRIORITY DATE OCT. 12, 1968, GERMANY
- 230 72 049 MANN LRB MOSES V
PROPERTIES OF ESCHERICHIA COLI GROWN IN DEUTERATED MEDIA
FOLIA MICROBIOL. (PRAGUE), 16, NO. 4, 267, 1971
- 230 72 050 MARCHETTI C SIMON R
CONSIDERATIONS ON A DUAL PURPOSE DUAL TEMPERATURE PROCESS FOR PRODUCING D₂O
PP 269-82 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER, COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971, CONF-700925
- 230 72 051 MOSKALEV YI
TRITIUM OXIDE
ACC-TR-7298, TRANSLATION OF 'OKIS' TRITIYA', ATOMIZDAT, MOSCOW, 1968, 360P
- 230 72 052 MULLINS JW STEIN JL
EVALUATION OF TRITIUM IN GROUND AND SURFACE WATERS OF THE WESTERN UNITED STATES, APRIL 1968 -
DECEMBER 1965
RADIAT. DATA REP., 13, NO. 2, 59, 1972
- 230 72 053 NAGRATHNA RA
BIBLIOGRAPHY ON PRODUCTION OF HEAVY WATER
BARC/BIB-3, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1970, 54P, 127 REFERENCES
- 230 72 054 NAZZER DB THAYER VR
LOW PRESSURE STRIPPING
CANADIAN PATENT 865,022, MARCH 2, 1971, TO CANADIAN GENERAL ELECTRIC CO., LTD.
- 230 72 055 NO AUTHOR
BIBLIOGRAPHY ON HYDROLOGICAL CONSIDERATIONS IN 1. WATER RESOURCES FOR AGRICULTURE, 2. GROUND
DISPOSAL OF RADIOACTIVE WASTES: DESALINATION AND EFFLUENT ENGINEERING DIVISION
BARC-573, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1971, 373P, 1465 REFERENCES
- 230 72 056 NO AUTHOR
TRACE INORGANICS IN WATER, SYMPOSIUM HELD IN MIAMI BEACH, FLORIDA, APRIL 10-13, 1967
BOOK, ADVANCES IN CHEMISTRY SERIES, NO. 73, AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C., 1968, 404P,
CONF-670462
- 230 72 057 NO AUTHOR
WATER TREATMENT IN THE SEVENTIES, PROCEEDINGS OF A SYMPOSIUM HELD AT READING, ENGLAND, JANUARY 5-7,
1970
BOOK, NORTH DERBYSHIRE WATER BOARD, WEST ST. CHESTERFIELD, 1970, 181P, CONF-700118, 12 PAPERS
- 230 72 058 NO AUTHOR
TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER, REPORT OF THE NUCLEAR CONFERENCE HELD AT TURIN,
SEPTEMBER 30 - OCTOBER 1, 1970, SERIE SIMPOSI
BOOK, COMITATO NAZIONALE ENERGIA NUCLEARE, ROME, 1971, 282P, IN SEVERAL LANGUAGES, CONF-700925, 15
PAPERS

- 230 72 059 NO AUTHOR
ENVIRONMENTAL ISOTOPE DATA NO. 3: WORLD SURVEY OF ISOTOPE CONCENTRATION IN PRECIPITATION 1966 - 1967
BOOK, INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA, SEPT. 1971. 402P
- 230 72 060 NO AUTHOR
STANDARD METHOD OF TESTING DEUTERIUM OXIDE
ASTM D2184-68. AMERICAN SOCIETY FOR TESTING AND MATERIALS, PHILADELPHIA, PA., 1968. 6P
- 230 72 061 NO AUTHOR
DATA. SECTION II. WATER
RADIOL. HEALTH DATA REP., 12, NO. 2, 100-6, 1971
- 230 72 062 OCHIAI T
NEW METHOD OF EXPLORING GROUND WATER BY MEASURING NATURAL RADIOACTIVITY
CHIKASUI TO IDO TO PONPU, 14, NO. 1, 2-12, 1971 IN JAPANESE
- 230 72 063 PATIN SA
POLLUTION OF THE WORLD OCEANS
RYB. KHOZ., NO. 5, 5, 1971 IN RUSSIAN
- 230 72 064 RAINEY RH
PREPARATION OF A MASTER LIST OF CHEMICALS USED IN COOLING TOWERS FOR USE IN PREPARATION OF
ENVIRONMENTAL IMPACT STATEMENTS
CONF-730106-2, OAK RIDGE NATIONAL LAB., TENN., 1972. 6P. NTIS
- 230 72 065 RICE GK VARGA LP
THEORY AND APPLICATION OF CONTINUOUS MONITORING FOR CHEMICAL RESEARCH IN NATURAL WATER SYSTEMS
ORD-4254-6, OKLAHOMA STATE UNIV., STILLWATER, OCT. 1972. 25P
- 230 72 066 ROBSON RD
BRUCE HEAVY WATER PLANT
70-CNA-623, PROGRESS REPORT, MAY 1970, LUMMUS CO. CANADA LTD., DON MILLS, ONTARIO. 9P.
CONF-700564-17, FROM 10TH ANNUAL INTERNATIONAL CONFERENCE OF THE CANADIAN NUCLEAR ASSOCIATION,
TORONTO, CANADA, MAY 24, 1970
- 230 72 067 ROTH E ROSTAING M
PRODUCTION OF HEAVY WATER IN FRANCE
PP 67-74 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 068 RUSSELL SH
ECONOMICS OF HEAVY WATER MANAGEMENT
PP 241-53 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 069 SCHINDewolf U LANG G
OPTIMIZATION OF A HEAVY WATER PRODUCTION PLANT WITH THE AMMONIA-HYDROGEN DUAL TEMPERATURE EXCHANGE
SYSTEM
PP 75-90 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 070 SCHRODER LJ
DETERMINATION OF TRITIUM IN WATER BY THE U.S. GEOLOGICAL SURVEY, DENVER, COLORADO
USGS-474-134, GEOLOGICAL SURVEY, DENVER, COLO., 1971. 22P. NTS-232
- 230 72 071 SELBY JM
- ENVIRONMENTAL SIGNIFICANCE OF DIESEL FUEL ENTERING COLUMBIA RIVER AT 100-N
BNWL-CC-1296, BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., AUG. 1967. 5P
- 230 72 072 SELECKI A
NATURAL WATER DISTILLATION PLANT: A NEW TECHNICAL APPROACH
PP 227-37 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 073 SILVER GL
PLUTONIUM IN NATURAL WATERS
MLM-1870, MOUND LAB., MIAMISBURG, OHIO, DEC. 1971. 15P
- 230 72 074 SIMEON C
WATER POLLUTION DIAGNOSIS BY HYDROBIOLOGICAL METHODS. APPLICATION TO HYDROGEOLOGY
CEA-R-4194, THESIS, BORDEAUX UNIV., FRANCE, DEC. 1971. 158P IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, PIERRELATTE, FRANCE
- 230 72 075 SPEVACK JS
DEVELOPMENT OF THE HYDROGEN SULFIDE-WATER DUAL TEMPERATURE TECHNOLOGY
PP 23-45 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 076 SPRAY PMG
FABRICATION AND CONSTRUCTION EXPERIENCE FOR BRUCE AND PORT HAWKESBURY HEAVY WATER PLANTS
PP 119-38 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925
- 230 72 077 STAMPLE R
1. CHROMATE POLLUTION OF WATER. DETECTION, EFFECTS, AND PREVENTION: A BIBLIOGRAPHY. 2. PHENOL
POLLUTION OF WATER: A BIBLIOGRAPHY
1. ORNL-TM-3450, OCT. 1971. 20P. 2. ORNL-TM-3431, OCT. 1971. 15P. OAK RIDGE NATIONAL LAB., TENN.,
NTIS
- 230 72 078 VAN DER WESTHUIJZ M SMITH MJ
CHANGE IN CONCENTRATION OF TRITIUM IN WATER DURING EVAPORATION AND THE POSSIBILITY OF USING IT TO
DETERMINE EVAPORATION FROM WATER, SOIL, AND PLANT SURFACES
PEL-214, ATOMIC ENERGY BOARD, PELINDABA, PRETORIA, SOUTH AFRICA, SEPT. 1971. 15P
- 230 72 079 WALTER S NITSCHKE E
PROBLEMS OF THE DESIGN AND CONSTRUCTION OF A PLANT FOR HEAVY WATER PRODUCTION USING THE DUAL
TEMPERATURE AMMONIA-HYDROGEN EXCHANGE SYSTEM
PP 173-96 OF TECHNIQUES AND ECONOMY OF PRODUCTION OF HEAVY WATER. COMITATO NAZIONALE ENERGIA
NUCLEARE, ROME, 1971. CONF-700925

- 230.72 080 WALTERS EA LONG FA
ISOTOPE EFFECTS ON HYDROXIDE ION IN AQUEOUS SOLUTION
J. PHYS. CHEM., 76, 362, 1972
- 230.72 081 WASHBURN CA
CLEAN WATER AND POWER (POLLUTION CONTROL)
ENVIRONMENT, 14, NO. 7, 40, 1972
- 230.72 082 WETZEL RG. MANNY BA
DECOMPOSITION OF DISSOLVED ORGANIC CARBON AND NITROGEN COMPOUNDS FROM LEAVES IN AN EXPERIMENTAL
HARDWATER STREAM
COO-1599-48, MICHIGAN STATE UNIV., HICKORY CORNERS, W.K. KELLOGG BIOLOGICAL STATION, 1972, 14P. NTIS
- 230.72 083 WINKLER E JUNG K HUEBNER G
TEMPERATURE DEPENDENCE OF THE GROWTH OF ESCHERICHIA COLI B IN HEAVY WATER
STUD. BIOPHYS., 13, 73, 1969 IN GERMAN
- 230.72 084 ZITKO V HUTZINGER O
CONTAMINATION OF CANADIAN ATLANTIC COASTAL AREAS WITH POLYCHLORINATED BIPHENYLS (PCB),
POLYCHLORINATED TERPHENYLS (PCT), AND RELATED COMPOUNDS
WASSERBODEN-LUFTHYG SCHRIFFTENREIHE, 37, 121, 1972
- 230.72 085 ZHURAVLEV VF
COMPARATIVE TOXICITY OF TRITIUM OXIDE FOR VARIOUS TYPES OF ANIMALS
GIG. SANIT., NO. 6, 49, 1971 IN RUSSIAN
- 235.72 001 AMIRANASHVILI AG OKROASHVILI GG KHUNDZHUA TG
DETERMINATION OF THE COEFFICIENT OF DIFFUSION BY THE METHOD OF RADIOACTIVE TRACERS
SOBOSHCH. AKAD. NAUK GRUZ. SSR, 65, 575, 1972 IN RUSSIAN
- 235.72 002 AUREA CUNHA M LARANJEIRA HF
HIGH TEMPERATURE ISOTOPIC THERMAL DIFFUSION OF NEON
PHYSICA, 57, 306, 1972
- 235.72 003 BRETON JP
INTERDIFFUSION IN THE REGION OF CONTINUUM FLOW OF BINARY GASEOUS MIXTURES INSIDE INHOMOGENEOUS
POROUS MEDIA. APPLICATION TO THE EVALUATION OF THE TRANSPORT COEFFICIENTS BY MEANS OF DEVAUX
EFFECT
CEA-R-4318, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, JUNE
1972, 33P IN FRENCH
- 235.72 004 STEVENS RN DUTTON R
EFFECT OF TEMPERATURE, PRESSURE, AND CONCENTRATION GRADIENTS ON DIFFUSION
AECL-3793, ATOMIC ENERGY OF CANADA LTD., PINAWA, MANITOBA, WHITESHELL NUCLEAR RESEARCH
ESTABLISHMENT, JULY 1971, 25P
- 235.72 005 VOLZ DJ SCHUMMER JH LASER RD MARTIN DM MCDANIEL EW
MOBILITIES AND LONGITUDINAL DIFFUSION COEFFICIENTS OF MASS IDENTIFIED POTASSIUM IONS AND POSITIVE
NITRIC OXIDE IONS IN NITRIC OXIDE
PHYS. REV., 4A, 1106, 1971, AD-739 109, 1971
- 235.72 006 VUOTS HF BOERBOOM AJH LOS J
DIFFUSION COEFFICIENTS OF ISOTOPIC METHANE MIXTURES AND OF METHANE-RARE GAS MIXTURES
MEM. SOC. ROY. SCI. LIEGE, 1, NO. 2, 179, 1971
- 240.72 001 ABRAMENKOV AD FOGEL YH SLEZOV VV TANATAROV LV LEDENEV OP

DIFFUSION OF SUBSTRATE ATOMS INTO A SURFACE FILM AS INDICATED BY THE SECONDARY ION-ION EMISSION
CHARACTERISTICS
FIZ. METAL. METALLOVED., 30, 1310, 1970 IN RUSSIAN
- 240.72 002 ANAND MS AGARWALA RP
DIFFUSION OF COBALT IN ALUMINIUM
BARC-556, BHABHA ATOMIC RESEARCH CENTER, BOMBAY, INDIA, 1971, 22P
- 240.72 003 ANDRIEVSKII RA KHRONOV YF ALEKSEEVA IS
SELF DIFFUSION OF CARBON AND METAL ATOMS IN ZIRCONIUM AND NIOBIUM CARBIDES
FIZ. METAL. METALLOVED., 32, 664, 1971 IN RUSSIAN
- 240.72 004 AUSTIN J CALDER R CARTER J ELLENAN T VERGHESE K
DIFFUSION OF GASES IN SOLIDS: TRITIUM DIFFUSION IN AUSTENITIC STAINLESS STEEL AND ZIRCALOY-2 AND
XE(133) DIFFUSION IN SINGLE CRYSTAL URANIUM DIOXIDE
ORD-3508-2, ANNUAL PROGRESS REPORT, NOV. 1970 - NOV. 1971, NORTH CAROLINA STATE UNIV., RALEIGH,
DEPT. OF NUCLEAR ENGINEERING, 77P
- 240.72 005 BERTAUD Y
SELF DIFFUSION OF CARBON IN URANIUM MONOCARBIDE
CEA-R-4227, THESIS, UNIV. OF GRENOBLE, FRANCE, NOV. 1971, 61P IN FRENCH, COMMISSARIAT A L'ENERGIE
ATOMIQUE, GRENOBLE, CENTRE D'ETUDES NUCLEAIRES
- 240.72 006 BOCQUET JL
DIFFUSION IN CONCENTRATED FCC ALLOYS
CEA-R-4292, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, MARCH
1972, 31P IN FRENCH
- 240.72 007 BRANDT WW IKEDA T SCHELLY ZA
DIFFUSION OF SEVERAL GASES IN VITREOUS BORON TRIOXIDE
PHYS. CHEM. GLASSES, 12, NO. 5, 139, 1971
- 240.72 008 COMBRONDE J BREBEC G
DIFFUSION OF AG, CD, IN, SN, AND SB IN MAGNESIUM
ACTA MET., 20, NO. 1, 37, 1972 IN FRENCH
- 240.72 009 CONTAMIN P
SELF DIFFUSION OF OXYGEN IN URANIUM DIOXIDE
CEA-R-4228, THESIS, UNIV. OF GRENOBLE, FRANCE, DEC. 1971, 90P IN FRENCH, COMMISSARIAT A L'ENERGIE
ATOMIQUE, GRENOBLE, CENTRE D'ETUDES NUCLEAIRES
- 240.72 010 COST JR
DIFFUSION AND PRECIPITATION OF INERT GASES IN METALS
COO-1799-9, TECHNICAL PROGRESS REPORT, JUNE 1971 - MARCH 1972, PURDUE UNIV., LAFAYETTE, IND., SCHOOL
OF MATERIALS SCIENCE AND METALLURGICAL ENGINEERING, FEB. 1972, 6P

- 240 72 011 CROSET M VELASCO G
STUDY OF THE COMPETITIVE DIFFUSION AT 525 DEGREES C OF NITROGEN AND OXYGEN IN SPUTTERED BETA
TANTALUM
J. VAC. SCI. TECHNOL., 9, 185, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 240 72 012 FEDOROV GB SMIRNOV EA UGASTE YE GUSEV VN MARCHUKOVA ID
POSSIBILITY OF DETERMINING THERMODYNAMIC ACTIVITIES IN BINARY ALLOYS FROM DATA FOR THE MUTUAL
DIFFUSION AND SELF DIFFUSION OF THE COMPONENTS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 392, 1971. TRANSLATED FROM Zh. Fiz. Khim., 45, 704, 1971
- 240 72 013 FEDOROV GB SMIRNOV EA ZHOMOV FI GUSEV VN PARAIEV SA
DIFFUSION OF URANIUM IN REFRACTORY BODY CENTERED CUBIC METALS
AT. ENERG. (USSR), 31, 516, 1971 IN RUSSIAN
- 240 72 014 HAESSNER A
GRAIN BOUNDARY DIFFUSION IN METALS
PP 41-73 OF DIFFUSION IN METALLISCHEN WERKSTOFFEN. VEB DEUTSCHER VERLAG FUER GRUNDSTOFFINDUSTRIE,
LEIPZIG, 1970. IN GERMAN. FROM 7TH METAL MEETING, DRESDEN, GERMANY, APRIL 1, 1970. CONF-700436
- 240 72 015 HERZIG C HEUMANN T WOLTER D
MEASUREMENT OF THE DIFFUSION AND ISOTOPE EFFECTS OF SILVER IN LEAD
Z. NATURFORSCH., 26A, 1477, 1971 IN GERMAN
- 240 72 016 HOERL EM RIEDER KH
DIFFUSION OF METALS IN THIN FILMS
SCAE-M-36/1971. OESTERREICHISCHE STUDIENGESellschaft FUER ATOMENERGIE G.M.B.H., SEIBERSDORF,
INSTITUT FUER METALLURGIE, 1971. 13P
- 240 72 017 HOMAN C
DIFFUSION IN A CUBIC METAL CONTAINING INTERSTITIAL IMPURITIES
AD-746 949. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151.
1972
- 240 72 018 HOOD GM
SOLUTE DIFFUSION IN ALPHA ZR
PP 361-72 OF DIFFUSION PROCESSES. VOL. 1. SHERWOOD, J.N. (ED.), GORDON AND BREACH SCIENCE PUBLISHERS
LTD., LONDON, 1971. FROM PROCEEDINGS OF THE THOMAS GRAHAM MEMORIAL SYMPOSIUM, GLASGOW, SCOTLAND,
SEPT. 22, 1969
- 240 72 019 KALE L SCHIEWER E
DIFFUSION OF FISSION PRODUCT IONS IN GLASSES
ATOMWIRT., ATOMTECH., 16, 434, 1971 IN GERMAN
- 240 72 020 KENESHEA FJ DOUGLASS DL
DIFFUSION OF OXYGEN IN ZIRCONIA AS A FUNCTION OF OXYGEN PRESSURE
OXIDATION METALS, 3, NO. 1, 1, 1971
- 240 72 021 KERSHNER CJ
HELIUM PERMEATION THROUGH TANTALUM METAL
MLM-1846. MOUND LAB., MIAMISBURG, OHIO, JAN. 1972. 26P
- 240 72 022 KHODOSOV EF
SELF DIFFUSION OF HYDROGEN IN TRANSITION METAL HYDRIDES
SOV. PHYS. CRYST. (ENGL. TRANS.), 16, 369, 1971. TRANSLATED FROM KRISTALLOGRAFIYA, 16, 442, 1971
- 240 72 023 KOETHE A SCHLAET F
DIFFUSION OF INTERSTITIAL IMPURITIES IN METALS
PP 89-127 OF DIFFUSION IN METALLISCHEN WERKSTOFFEN. VEB DEUTSCHER VERLAG FUER GRUNDSTOFFINDUSTRIE,
LEIPZIG, 1970. IN GERMAN. FROM 7TH METAL MEETING, DRESDEN, GERMANY, APRIL 1, 1970. CONF-700436
- 240 72 024 KRYUKOV SN SOLDATOV EA IRKOV VI
DETERMINATION OF DIFFUSION COEFFICIENTS IN LIQUID METALS BY ISOTOPE EXCHANGE THROUGH THE GAS PHASE
VESTN. MOSK. UNIV., SER. II, KHIM., 12, NO. 2, 224, 1971 IN RUSSIAN
- 240 72 025 LANGER HD
DIFFUSION OF OXYGEN IN VAPOR DEPOSITED TANTALUM FILMS
PP 279-86 OF DIFFUSION IN METALLISCHEN WERKSTOFFEN. VEB DEUTSCHER VERLAG FUER GRUNDSTOFFINDUSTRIE,
LEIPZIG, 1970. IN GERMAN. FROM 7TH METAL MEETING, DRESDEN, GERMANY, APRIL 1, 1970. CONF-700436
- 240 72 026 LE CLAIRE AD
ISOTOPE EFFECTS AND CORRELATION IN DIFFUSION IN METALS
PP 143-60 OF DIFFUSION IN METALLISCHEN WERKSTOFFEN. VEB DEUTSCHER VERLAG FUER GRUNDSTOFFINDUSTRIE,
LEIPZIG, 1970. FROM 7TH METAL MEETING, DRESDEN, GERMANY, APRIL 1, 1970. CONF-700436
- 240 72 027 LEES DG CALVERT JM DERRY DJ
TECHNIQUE USING RESONANCE CAPTURE OF PROTONS TO STUDY OXYGEN DIFFUSION IN TITANIUM DIOXIDE
PP 429-36 OF DIFFUSION PROCESSES. VOL. 2. SHERWOOD, J.N. (ED.), GORDON AND BREACH SCIENCE PUBLISHERS
LTD., LONDON, 1971. FROM PROCEEDING OF THE THOMAS GRAHAM MEMORIAL SYMPOSIUM, GLASGOW, SCOTLAND,
SEPT. 22, 1969
- 240 72 028 LEVINSKII YV KIPARISOV SS STROGOONOV YD
NITROGEN DIFFUSION IN ZIRCONIUM
IZV. VYSISH. UCHEB. ZAVED., TSVET. MET., NO. 6, 91, 1970 IN RUSSIAN
- 240 72 029 LOMWERT W FROMM E
THERMAL DIFFUSION OF OXYGEN IN TA-O AND NB-O SOLID SOLUTIONS
Z. METALLK., 62, 457, 1971 IN GERMAN
- 240 72 030 MAKHLIN NA IVANOV LI
EFFECT OF VACUUM ON THE DIFFUSION MOBILITY OF NICKEL IN MOLYBDENUM
RUSS. METALLURGY (ENGL. TRANS.), NO. 1, 152, 1971. TRANSLATED FROM IZV. AKAD. NAUK SSSR, METAL., NO.
1, 222, 1971
- 240 72 031 MAO C
IMPURITY DIFFUSION IN CADMIUM
THESIS. RENSSELAER POLYTECHNIC INST., TROY, NEW YORK, 1971. 153P. UNIV. MICROFILMS ORDER NO. 71-19
886

- 240 72 032 NEUMANN GM
SELF DIFFUSION AND THE DIFFUSION MECHANISM IN BCC TRANSITION METALS
PP. 329-60 OF DIFFUSION PROCESSES. VOL. 1. SHERWOOD, J. N. (ED.). GORDON AND BREACH SCIENCE PUBLISHERS
LTD., LONDON, 1971. FROM PROCEEDING OF THE THOMAS GRAHAM MEMORIAL SYMPOSIUM, GLASGOW, SCOTLAND,
SEPT. 22, 1969
- 240 72 033 NO AUTHOR
DIFFUSION IN METALLISCHEN WERKSTOFFEN. (DIFFUSION IN METALLIC MATERIALS). CONFERENCE HELD AT
DRESDEN, GERMANY, APRIL 1-2, 1970.
BOOK, VEB DEUTSCHER VERLAG FÜR GRUNDSTOFFINDUSTRIE, LEIPZIG, 1970. 328P IN GERMAN AND ENGLISH.
CONF-700436. 18 PAPERS
- 240 72 034 PAUL, AR AGARWALA RP
LATTICE AND GRAIN BOUNDARY DIFFUSION OF CERIUM AND NEDDYMIUM IN NICKEL
MET. TRANS., 2, 2691, 1971
- 240 72 035 PAUTOV DA
SURFACE SELF-DIFFUSION OF NIOBIUM IN AN ELECTRIC FIELD
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 997, 1971. TRANSLATED FROM FIZ. TVERD. TELA, 13, 1204,
1971
- 240 72 036 PERRAILLON B
SURFACE DIFFUSION COEFFICIENTS ON COPPER
CEA-R-4262, THESIS, PARIS UNIV., FRANCE, FEB. 1972. 60P IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 240 72 037 REIMERS P BARTDORF D
SELBSTDIFFUSION UND ISOTOPIEEFFEKT IN SILBEREINKRISTALLEN. (SELF DIFFUSION AND ISOTOPE EFFECTS IN
SILVER SINGLE CRYSTALS)
PHYS. STATUS SOLIDI, 50B, 305, 1972
- 240 72 038 ROBINSON JT
SELF DIFFUSION AND THE ISOTOPE EFFECT IN GRAIN BOUNDARIES IN SILVER
THESIS, UNIV. OF TEXAS, AUSTIN, 1970. 96P. UNIV. MICROFILMS ORDER NO. 72-2410.
- 240 72 039 SAXENA MC SHARMA BD
DIFFUSION OF Nb(95) INTO COPPER
TRANS. INDIAN INST. METALS, 23, NO. 3, 16, 1970
- 240 72 040 SCHMIDT FA WARNER JC
DIFFUSION OF CARBON, NITROGEN, AND OXYGEN IN VANADIUM BETWEEN 60 AND 1825 DEGREES C
J. LESS-COMMON METALS, 26, 325, 1972
- 240 72 041 SEEGER A
MECHANISMS OF DIFFUSION IN METALS AND ALLOYS
J. LESS-COMMON METALS, 26, 387, 1972
- 240 72 042 SHEPILA A
DIFFUSION OF C(14) IN TUNGSTEN AND TUNGSTEN-RHENIUM ALLOYS
J. LESS-COMMON METALS, 26, 33, 1972
- 240 72 043 SHERWOOD JN
DIFFUSION PROCESSES. VOLUMES 1 AND 2. PROCEEDINGS OF THE THOMAS GRAHAM MEMORIAL SYMPOSIUM.
STRATHCLYDE, SCOTLAND, SEPTEMBER 22-24, 1969
BOOKS, GORDON AND BREACH SCIENCE PUBLISHERS LTD., LONDON, 1971. CONF-690936(VOL.1), 395P, 25 PAPERS.
(VOL.2), 827P, 24 PAPERS.
- 240 72 044 STEELE BCH FLOYD JM
OXYGEN SELF DIFFUSION AND ELECTRICAL TRANSPORT PROPERTIES OF NONSTOICHIOMETRIC CERIA AND CERIA SOLID
SOLUTIONS
PROC. BRIT. CERAMIC SOC., 19, 55-76, 1971
- 240 72 045 TOMIZUKA CT
IMPURITY DIFFUSION IN SOLIDS
COO-1041-20, TECHNICAL PROGRESS REPORT, DEC. 1970 - DEC. 1971, 13P. COO-1041-24, TECHNICAL PROGRESS
REPORT, DEC. 1971 - DEC. 1972, 6P. ARIZONA UNIV., TUCSON, DEPT. OF PHYSICS
- 240 72 046 TRUFFIER JL BUCHALET C
DETERMINATION OF THE DIFFUSION COEFFICIENT AND THE SOLUBILITY OF GASES IN SOLIDS BY SUCCESSIVE
PERMEABILITY TESTS CARRIED OUT ON A SINGLE SAMPLE
CEA-R-4192, COMMISSARIAT A L'ENERGIE ATOMIQUE, BRUYERES-LE-CHATEL, FRANCE, CENTRE D'ETUDES, NOV.
1971. 52P IN FRENCH
- 240 72 047 USTINOV YK
DIFFUSION OF CARBON MONOXIDE IN TANTALUM
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 501, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 643, 1971
- 240 72 048 VOGEL DL RIECK GD
THERMOTRANSPORT OF OXYGEN AND NITROGEN IN TITANIUM, NIOBIUM, AND TANTALUM: A QUALITATIVE
INVESTIGATION
ACTA MET., 19, NO. 3, 247, 1971
- 240 72 049 WICKE E OBERMANN A
DIE GRAVIMETRISCHE METHODE DER GITTEREXPANSION ZUR MESSUNG DER DIFFUSION VON WASSERSTOFF IN TANTAL
Z. PHYS. CHEM. (FRANKFURT), 77, 163, 1972
- 240 72 050 WOENLBIER FH
DIFFUSION DATA
VOL. 5, NO. 1, 1-269, 1971. VOL. 5, NO. 2, 271-430, 1971. VOL. 5, NO. 3, 429-583, 1971. 131
REFERENCES. VOL. 5, NO. 4, 585-734, 1971. 125 REFERENCES. VOL. 6, NO. 1, 1-331, 1972. 250
REFERENCES PLUS CUMULATIVE INDEXES FOR VOL. 1 THROUGH 5.
- 245 72 001 AJELLO JM
DISSOCIATIVE EXCITATION OF O₂ IN THE VACUUM ULTRAVIOLET BY ELECTRON IMPACT
J. CHEM. PHYS., 55, 3156, 1971
- 245 72 002 ALLISON AC DALGARNO A
CONTINUITY AT THE DISSOCIATION THRESHOLD IN MOLECULAR ABSORPTION
J. CHEM. PHYS., 55, 4342, 1971

- 245 72 003 ANDLAUER B OTTINGER C
DISSOCIATION LIFETIMES OF MOLECULAR IONS PRODUCED BY CHARGE EXCHANGE
Z. NATURFORSCH., 27A, 293, 1972
- 245 72 004 BORST M ZIPE EC
ENERGY SPECTRA OF METASTABLE OXYGEN ATOMS PRODUCED BY ELECTRON IMPACT DISSOCIATION OF O₂
PHYS. REV., 4A, 153 AND 2110, 1971, N71-25129, AD-727 328, 1971
- 245 72 005 BRESHEARS WD BIRD PF
PRECISE MEASUREMENTS OF DIATOMIC DISSOCIATION RATES IN SHOCK WAVES
LA-DC-72-369, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1972, 22P, CONF-720811-1, FROM 14TH
INTERNATIONAL SYMPOSIUM ON COMBUSTION, UNIVERSITY PARK, PA., AUG. 20, 1972
- 245 72 006 BREWER L TELLINGH J
QUANTUM YIELD FOR UNIMOLECULAR DISSOCIATION OF I₂ IN VISIBLE ABSORPTION
J. CHEM. PHYS., 56, 3929, 1972
- 245 72 007 COCKS AT FREY HM
THERMAL UNIMOLECULAR DECOMPOSITION OF BICYCLO(2,2,2)OCT-2-ENE
J. CHEM. SOC. A, P1661, 1971
- 245 72 008 DUNBAR RC
PHOTODISSOCIATION OF THE CH₃CL(+) AND N₂O(+) CATIONS
JACS, 93, 4354, 1971
- 245 72 009 FOURNIER PG GOVERS TR VAN DE RUNSTRAA CA SCHOPMAN J LOS J
TRANSLATIONAL SPECTROSCOPY OF THE UNIMOLECULAR DISSOCIATION N₂(+) GOES TO N(+) + N
J. PHYS. (PARIS), 33, 755, 1972
- 245 72 010 FREUND RS
DISSOCIATION OF CO₂ BY ELECTRON IMPACT WITH THE FORMATION OF METASTABLE CO(A(3)P) AND O((5)S)
J. CHEM. PHYS., 55, 3569, 1971
- 245 72 011 GILBERT RG ROSS IG
UNIMOLECULAR REACTIONS AS RADIATIONLESS TRANSITIONS. CALCULATION OF RATE OF DECOMPOSITION OF N₂O
AUSTRALIAN J. CHEM., 24, 1541, 1971
- 245 72 012 GINTEN HL BORNEN CM
DISSOCIATION ENERGIES OF HE₂(+)(X(2)SIGMA(U)(+)) AND HE₂(A(1)SIGMA(U)(+))
J. CHEM. PHYS., 56, 672, 1972
- 245 72 013 GOVERS TR SCHOPMAN J
TRANSLATIONAL SPECTROSCOPY OF UNIMOLECULAR DISSOCIATION NO(+) GOES TO O(+) + N
CHEM. PHYS. LETT., 12, 414, 1971
- 245 72 014 JOHNSON ER
RADIATION INDUCED DECOMPOSITION OF INORGANIC MOLECULAR IONS
ORD-3660-4, PROGRESS REPORT, MARYLAND UNIV., COLLEGE PARK, MD., DEPT. OF CHEMICAL ENGINEERING, 1970,
10P
- 245 72 015 JULIENNE PS KRAUSS M DONN B
FORMATION OF OH THROUGH INVERSE PREDISSOCIATION
COM-72-5020, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971
- 245 72 016 KERR JA TIMLIN DM
- APPLICATION OF RRKM THEORY TO UNIMOLECULAR DECOMPOSITION OF 1,2-DIFLUOROETHANE
TRANS. FARADAY SOC., 67, 1376, 1971
- 245 72 017 KUEHN DG CHANIN LN
POSITIVE ION SPECIES AND DEGREE OF DISSOCIATION OF SO₂ IN DC DISCHARGES IN HE-SO₂ MIXTURES
J. APPL. PHYS., 43, 339, 1972
- 245 72 018 LEVINE RD BERNSTEIN RB
1. THEORY OF COLLISION INDUCED DISSOCIATION. 2. COLLISION INDUCED DISSOCIATION: A SIMPLISTIC OPTICAL
MODEL ANALYSIS
CHEM. PHYS. LETT., 11, 109 AND 552, 1971, PB-204 009, 1971
- 245 72 019 LIU SW WIGHTMAN JP
DECOMPOSITION OF SIMPLE ALCOHOLS, ETHERS, AND KETONES IN A MICROWAVE DISCHARGE
J. APPL. CHEM. (LONDON), 21, 168, 1971
- 245 72 020 MALONEY KL PALMER HB
RATE OF DISSOCIATION OF ALLYL IODIDE IN SHOCK WAVES
AD-741 405, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971
- 245 72 021 MARTYNOV OT VASINA LG POZDNIAK SA
DETERMINATION OF DISSOCIATION CONSTANTS OF ION PAIRS CADH(+), CADH₃(+), AND CACD₃ IN 22-98 DEGREES C
TEMPERATURE RANGE
DOKL. AKADE. NAUK SSSR, 202, 1337, 1972 IN RUSSIAN
- 245 72 022 MISAKIAN M PEARL JC MUMMA MJ
LINEAR MOMENTUM TRANSFER EFFECTS IN MOLECULAR DISSOCIATION PRODUCED BY ELECTRON IMPACT
J. CHEM. PHYS., 57, 1891, 1972
- 245 72 023 MULLICK K ROY CS BANUA AK
DISTORTION POLARIZATION OF ORBITALS AND ASYMMETRY IN FORWARD-BACKWARD SCATTERING FRAGMENTS FOR
DISSOCIATION OF HEH(+) ION
J. PHYS., 6, 5, 1381, 1972
- 245 72 024 OKABE M LAUFER AH BALL JJ
1. PHOTODISSOCIATION OF OCCL₂ IN VACUUM ULTRAVIOLET: PRODUCTION AND ELECTRONIC ENERGY OF EXCITED
CL₂. 2. PHOTODISSOCIATION OF OSCL₂ IN VACUUM ULTRAVIOLET: HEAT OF FORMATION OF SO
J. CHEM. PHYS., 55, 373, 1971, COM-71-5051, 1971 AND J. CHEM. PHYS., 56, 3378, 1972
- 245 72 025 PAYNE MF RIVIERE AC
ANGULAR SPREAD OF HYDROGEN ATOMS FORMED BY ELECTRON CAPTURE AND DISSOCIATION OF H(+), H₂(+), AND
H₃(+) IN H₂, H₂O, AND C₆H₆ AT ENERGIES OF 2.5 TO 15 KEV
J. PHYS. D, 5, 69, 1972

- 245 72 026 ROBINSON PJ HOLBROOK KA
UNIMOLECULAR REACTIONS
BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS INC., NEW YORK AND ONTARIO, 1972. 371P
- 245 72 027 RYNBRANDT JD RABINOVITCH BS
INTRAMOLECULAR ENERGY RELAXATION. NONRANDOM DECOMPOSITION OF HEXAFLUOROBICYCLOPROPYL
J. PHYS. CHEM., 75, 2164, 1971
- 245 72 028 STEARNS JW BERKNER KH PYLE RV BRIEGLEB BP WARREN ML
DISSOCIATION CROSS SECTIONS FOR 0.5 TO 1 MEV MEH(+) IONS IN H₂, HE, N₂, AND NE GASES
PHYS. REV., 4A, 1960, 1971
- 245 72 029 THUAIER R
DISSOCIATION DES PHENOLS ET DES IONS ANILINIUM SUBSTITUES DANS LES MELANGES HYDROTHANOLIQUES. 1.
EFFETS DES SUBSTITUANTS. 2. INFLUENCE DU SOLVANT
J. CHIM. PHYS., 69, 23 AND 30, 1972
- 245 72 030 WAAGE EV RABINOVITCH BS
COMPETITIVE THERMAL UNIMOLECULAR REACTIONS OF TRANS-CYCLOPROPANE-D₂. COLLISIONAL ENERGY TRANSFER
J. PHYS. CHEM., 76, 1695, 1972
- 245 72 031 WELLS WC BORST WL ZIPF EC
1. ABSOLUTE CROSS SECTION FOR THE PRODUCTION OF O(1S(0)) BY ELECTRON IMPACT DISSOCIATION OF O₂. 2.
PRODUCTION OF CO(A(3)PI) AND OTHER METASTABLE FRAGMENTS BY ELECTRON IMPACT DISSOCIATION OF CO₂(*)
CHEN. PHYS. LETT., 12, 288, 1971. AD-738 780, 1971. AND J. GEOPHYS. RES., 77, 69, 1972. NT1-34670 AND
AD-736 746, 1971
- 245 72 032 WESTBERG K GREENE EF
DISSOCIATION OF HBR AND BR₂ IN SHOCK WAVES
NYO-2101-28, BROWN UNIV., PROVIDENCE, R.I., METCALF CHEMICAL LAB., 1971, 43P
- 250 72 001 BAEDE APH
ADIABATIC ELECTRON AFFINITIES OF CL₂, BR₂, I₂, IBr, NO₂, AND O₂
PHYSICA, 59, 541, 1972
- 250 72 002 BRANSCOM L
PHOTODETACHMENT CROSS SECTION, ELECTRON AFFINITY, AND STRUCTURE OF THE NEGATIVE HYDROXYL ION
AD-87 225, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1966
- 250 72 003 LIFSHTITZ C HUGHES BM TIERNAN TO
ELECTRON AFFINITIES FROM ENDOTHERMIC, NEGATIVE ION, CHARGE TRANSFER REACTIONS. 1. NO₂ AND SF₆. 2. O₂
CHEN. PHYS. LETT., 7, 469, 1970 AND J. CHEN. PHYS., 55, 5692, 1971. AD-738 606, 1971. AEROSPACE
RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO
- 250 72 004 NALLEY SJ COMPTON RN
COLLISIONAL IONIZATION OF CESIUM BY OXYGEN: ELECTRON AFFINITY OF O₂
CHEN. PHYS. LETT., 9, 529, 1971
- 250 72 005 RYSS IG
DISSOCIATION ENERGY OF FLUORINE AND THE AFFINITY OF FLUORINE TO AN ELECTRON
ANL-TRANS-894, TRANSLATED FOR ARGONNE NATIONAL LAB., ILL., FROM USP. KHIM., 21, 857, 1952, 21P
- 250 72 006 SMYTH KC BRAUMAN JI
1. PHOTODETACHMENT OF ELECTRONS FROM PHOSPHIDE ION: ELECTRON AFFINITY OF PH₂. 2. PHOTODETACHMENT OF
ELECTRONS FROM AMIDE AND ARSENIDE IONS: ELECTRON AFFINITIES OF NH₂ AND ASH₂. 3. PHOTODETACHMENT OF
AN ELECTRON FROM SELENIDE ION: ELECTRON AFFINITY AND SPIN-ORBIT COUPLING CONSTANT FOR SEH
J. CHEN. PHYS., 56, 1132, 4620, AND 5993, 1972
- 250 72 007 TIERNAN TO HUGHES BM LIFSHTITZ C
ELECTRON AFFINITY OF O₂ FROM ENERGY THRESHOLDS FOR NEGATIVE ION. ELECTRON TRANSFER REACTIONS
AD-730 851, AEROSPACE RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO, 1971, 4P, NTIS
- 250 72 008 ZANDBERG EY KAMENEV AG PALEEV VI
1. DETERMINATION OF ELECTRON AFFINITIES OF COPPER, TIN, AND LEAD BY SURFACE IONIZATION. 2.
DETERMINATION OF ELECTRON AFFINITIES OF SILICON AND GERMANIUM ATOMS BY SURFACE IONIZATION
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, NO. 5, XXX, 1971 AND 16, NO. 9, 1567, 1972
- 255 72 001 ADAMS JP
STUDY OF ELECTRON EMISSIONS OF SOME MASS SEPARATED FISSION PRODUCT ACTIVITIES
IS-T-534, THESIS, IOWA STATE UNIV., AMES, AUG. 1972, 100P, AMES LAB, USAEC
- 255 72 002 AHMED M BROERS AN
LANTHANUM HEXAFLUORIDE ELECTRON EMITTER
J. APPL. PHYS., 43, 2185, 1972
- 255 72 003 ALLISON W DUNNING FB SMITH ACH
SECONDARY ELECTRON EJECTION FROM METAL SURFACES BY METASTABLE ATOMS. 3. ENERGY AND ANGULAR
DISTRIBUTIONS OF THE EJECTED ELECTRONS
J. PHYS., 8, 5, 1175, 1972
- 255 72 004 ARIFOV UA
VTORICHNO-ESSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. (SECONDARY EMISSION AND STRUCTURAL
PROPERTIES OF SOLIDS)
BOOK, IZDATEL'STVO FAN UZBEKSKOI SSR, TASHKENT, 1970, 210P
- 255 72 005 ARIFOV UA RAKHIMOV RR DZHURAKULOV K
1. POTENTIAL EMISSION OF ELECTRONS FROM THE (110) AND (111) FACES OF A MOLYBDENUM SINGLE CRYSTAL
UNDER ION BOMBARDMENT. 2. ELECTRON EMISSION OF THE (110) AND (111) FACES OF A MOLYBDENUM SINGLE
CRYSTAL ON BOMBARDING WITH HELIUM AND ARGON IONS AND ATOMS
PP 11-17 AND PP 17-26 OF VTORICHNO-ESSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.),
IZDATEL'STVO FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN
- 255 72 006 ARIFOV UA KHADZHIMUKHAMED KK MAKHMUDOV AK
SECONDARY ELECTRON EMISSION OF NICKEL-CHROMIUM AND ALUMINUM-BERYLLIUM ALLOYS
PP 45-50 OF VTORICHNO-ESSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.), IZDATEL'STVO
FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN
- 255 72 007 ARIFOV UA KASYMOV AK
1. SECONDARY ELECTRON EMISSION IN VARIOUS STATES (IN SOLID AND MOLTEN) OF INDIUM. 2. ENERGY
DISTRIBUTION OF SECONDARY ELECTRONS EMITTED FROM TITANIUM, IRON, AND NICKEL
PP 114-17 AND 117-23 OF VTORICHNO-ESSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.),
IZDATEL'STVO FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN

- 255 72 008 ARIFOV UA MUKHAMADIEV ES PARALIS ES PASYUK AS
IDENTIFICATION OF MULTICHARGED IONS BY THE INDUCED ELECTRON EMISSION
JINR-P7-6165. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR. LAB. OF NUCLEAR REACTIONS. 1971. 20P IN RUSSIAN
- 255 72 009 BABOUX J PERDRIX M GOUTTE R
INFLUENCE DE L'ANGLE D'INCIDENCE SUR L'EMISSION ELECTRONIQUE D'UN MONOCRISTAL DE CHLORURE DE SODIUM BOMBARDE PAR DES IONS DE GAZ RARES
COMPT. REND. SER. B. 273. 195. 1971
- 255 72 010 BEGRANBEKOV LB KURNAEV VA SOTNIKOV VM TEL'KOVSKII VG
1. ANISOTROPY IN THE ANGULAR DISTRIBUTION OF ION-ELECTRON FROM A NIOBIUM SINGLE CRYSTAL. 2. ANGULAR AND ENERGETIC DEPENDENCE OF ION INDUCED ELECTRON EMISSION FROM NIOBIUM AND MOLYBDENUM SINGLE CRYSTALS
SOV. PHYS. SOLID STATE (ENGL. TRANS.). 13. 379 AND 1365. 1971. TRANSLATED FROM FIZ. TVERD. TELA. 13. 471 AND 1631. 1971
- 255 72 011 BINDI R BORGNO J LANTERI M MARTIN F
STUDY OF SECONDARY ELECTRON EMISSION FROM W AND MO SAMPLES WITH SURFACES OF CONTROLLED CLEANLINESS
COMPT. REND. SER. B. 272. 1465. 1971 IN FRENCH
- 255 72 012 BRONSHTEIN IM PROTSENK AN
INELASTIC ELECTRON SCATTERING AND SECONDARY EMISSION OF INSULATORS
RADIO ENG. ELECTRON. PHYS. USSR (ENGL. TRANS.). 16. 347. 1971
- 255 72 013 CAILLER M
CONTRIBUTION TO THE THEORETICAL STUDY OF SECONDARY ELECTRON EMISSION PRODUCED BY ELECTRON BOMBARDMENT
FRNC-TH-57. THESIS. NANTES UNIV. FRANCE. 1969. 189P IN FRENCH
- 255 72 014 CATONI F GISLON R PAPA C
ELECTRON EMISSION FROM SOLIDS BY IONIC BOMBARDMENT
RT-EL-(72)4. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE. ROME. ITALY. APRIL 1972. 31P IN ITALIAN
- 255 72 015 CANTHORN ER
SECONDARY ELECTRON EMISSION FROM SOLID SURFACES BOMBARDED BY MEDIUM ENERGY IONS
AUSTRALIAN J. PHYS. 24. 859. 1971
- 255 72 016 DUNNING FB SMITH ACH STEBBINGS RF
SECONDARY ELECTRON EJECTION FROM METAL SURFACES BY METASTABLE ATOMS. 1. MEASUREMENTS OF SECONDARY EMISSION COEFFICIENTS USING A CROSSED BEAM METHOD. 2. MEASUREMENTS OF SECONDARY EMISSION COEFFICIENTS USING A GAS CELL METHOD
J. PHYS. B. 4. 1683 AND 1696. 1971
- 255 72 017 FOMENKO VS
EMISSIONNYE SVOISTVA MATERIALOV. SPRAVOCHNIK. TRET'E DOPOLNENNOE I PERERABOTANNOE IZDANIE. (EMISSIVE PROPERTIES OF MATERIALS. HANDBOOK. THIRD REVISED AND ENLARGED EDITION)
BOOK. NAUKOVA DUMKA. KIEV. 1970. 148P. 832 REFERENCES
- 255 72 018 GARDNER FM GIROUARD PE BOECK WL COOMES EA
THERMIONIC EMISSION FROM SINGLE CRYSTAL FILAMENTS
SURFACE SCI. 26. 605. 1971
- 255 72 019 KULTASHEV OK MAKAROV AP
ELECTRON WORK FUNCTION OF TANTALUM-RUTHENIUM ALLOYS
FIZ. METAL. METALLOVED. 30. 924. 1970 IN RUSSIAN
- 255 72 020 LOUCHET F VIEL L BENAZETH C
SECONDARY ELECTRON SPECTRA OF SOME SOLID TARGETS UNDER IONIC BOMBARDMENT
RADIAT. EFF. 14. 123. 1972
- 255 72 021 NASINI M REDAELLI G
METHOD OF PREPARATION OF LAB6 CATHODES
REV. SCI. INSTRUM. 42. 1765. 1971
- 255 72 022 RAY JA BARNETT CF
SECONDARY ELECTRON EMISSION OF METALS BOMBARDED WITH 120 EV TO 5 KEV PROTONS
NAINYN-SCHMITZFRERGS ARCH. PHARMAKOL. 269. 3260. 1971
- 255 72 023 TURMASHEV E AYUKHANOV AK
SECONDARY ELECTRON EMISSION FROM SURFACE OF GERMANIUM AND SILICON ON IRRADIATING WITH ALKALI IONS
PP 38-41 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV. U.A. (ED.). IZDATEL'STVO FAN UZBEKSKOI SSR. TASHKENT. 1970. IN RUSSIAN
- 255 72 024 VIEL L BENAZETH C FAGOT B LOUCHET F COLOMBIE N
AUGER ELECTRONS PRODUCED BY ION BOMBARDMENT
COMPT. REND. SER. B. 273. 30. 1971 IN FRENCH
- 255 72 025 ZOMMERFELDT K MASHKOVA ES MOLCHANOV VA
ENERGY DEPENDENCE OF SECONDARY ELECTRON EMISSION IN CRYSTALS
SOV. PHYS. SOLID STATE (ENGL. TRANS.). 13. 676. 1971. TRANSLATED FROM FIZ. TVERD. TELA. 13. 819. 1971
- 260 72 001 ADAMS J MILLAR ICP
DETECTION EFFICIENCY OF CHANNEL PLATES TO X-RAYS
ACTA ELECTRON. 14. 237. 1971 IN FRENCH AND ENGLISH
- 260 72 002 ANDRESEN RO PAGE DE
IONS PRODUCED BY A STRAIGHT CHANNEL MULTIPLIER
NUCL. INSTRUM. METHODS. 94. 429. 1971
- 260 72 003 BARAT C
PHYSICS OF THE CHANNEL ELECTRON MULTIPLIER
PP 231-9 OF ESRO-SP-72. UNIV. OF TOULOUSE. FRANCE. FROM CONFERENCE ON WAVE-PARTICLE INTERACTIONS IN THE MAGNETOSPHERE. ORLEANS. FRANCE. MARCH 17. 1971
- 260 72 004 BEDD DE
GAIN VARIATIONS IN CHANNEL ELECTRON MULTIPLIERS
REV. SCI. INSTRUM. 43. 130. 1972. AD-741 089. 1971

- 260 72 005 BERLOVSK AY ZASLAVSK VY
CHARACTERISTIC OF AVERAGE INTEGRAL SENSITIVITY OF PHOTOCATHODES OF ELECTRON MULTIPLIERS
MEAS. TECH. USSR (ENGL. TRANS.), 14, 370, 1971
- 260 72 006 BORDONI F
CHANNEL ELECTRON MULTIPLIER EFFICIENCY FOR 10 TO 1000 EV ELECTRONS
NUCL. INSTRUM. METHODS, 97, 405, 1971
- 260 72 007 BRENNER SS MCKINNEY JT
PERFORMANCE OF ELECTRON MULTIPLIERS IN FIM ATOM PROBES
REV. SCI. INSTRUM., 43, 1264, 1972
- 260 72 008 BUNTING WD TARSTRUP J HEIKKILA WJ
DETECTION EFFICIENCY OF ELECTRON MULTIPLIERS FOR LOW ENERGY ELECTRONS
J. APPL. PHYS., 43, 1585, 1972
- 260 72 009 CATCHPOLE CE
SUBNANOSECOND RISE TIME CHEVRON MICROCHANNEL PLATE PHOTOMULTIPLIER TUBE
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, 360, 1972, FROM NUCLEAR SCIENCE SYMPOSIUM, SAN FRANCISCO, CALIF., NOV. 3, 1971, CONF-711111
- 260 72 010 CHALMETON V
DETECTION OF HIGH ENERGY ELECTRONS
ACTA ELECTRON., 14, 225, 1971 IN FRENCH AND ENGLISH
- 260 72 011 CUDERMAN JF
ELECTRON MULTIPLIER DETECTION OF FAST POTASSIUM ATOM BEAMS
REV. SCI. INSTRUM., 42, 1094, 1971
- 260 72 012 DI VALENTIN MA
NONLINEAR BEHAVIOUR AND RECOVERY TIME FROM SATURATION OF THE ELECTRON MULTIPLIER
CHAPTER 15 OF DYNAMIC MASS SPECTROMETRY, VOLUME 3, PRICE, D. (ED.), HEYDEN AND SONS LTD., LONDON, 1972
- 260 72 013 ESCHARD G MANLEY BW
PRINCIPLE AND CHARACTERISTICS OF CHANNEL ELECTRON MULTIPLIERS
ACTA ELECTRON., 14, 19, 1971
- 260 72 014 GODDINGS JM JONES JM PARKES DA
ELECTRON MULTIPLIER OPERATION FOR NEGATIVE IONS
J. MASS SPECTRY, ION PHYS., 9, 417, 1972
- 260 72 015 GREEN MI KENEALY PF BEARD GB
FAST TIMING CHARACTERISTICS OF SOME CHANNEL ELECTRON MULTIPLIERS
NUCL. INSTRUM. METHODS, 99, 445, 1972
- 260 72 016 HAMN YB HEBNER RE KASTELEIN OR NYGAARD KJ
CHANNELTRON GAIN IN MAGNETIC FIELDS
REV. SCI. INSTRUM., 43, 695, 1972
- 260 72 017 HARRIS LA
SATURATION IN CONTINUOUS CHANNEL ELECTRON MULTIPLIERS
REV. SCI. INSTRUM., 42, 987, 1971
- 260 72 018 HULL MD
FAST RESPONSE PHOTOMULTIPLIERS
- BOOK, No. 10, PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NETHERLANDS, 1971, 122P
- 260 72 019 IGLESIAS GE MCGARITY JO
CHANNEL ELECTRON MULTIPLIER EFFICIENCY FOR PROTONS OF 0.2 TO 10 KEV
REV. SCI. INSTRUM., 42, 1728, 1971
- 260 72 020 JUDGE DL
CHEMICAL PHYSICS OF MOLECULES AND CONTINUOUS CHANNEL ELECTRON MULTIPLIERS
N72-18700, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 260 72 021 KOVALENK VG POLENOV BV
CHARACTERISTICS OF CHARGED PARTICLE DETECTION SECTIONS HAVING CHANNEL ELECTRON MULTIPLIERS
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 1651, 1971
- 260 72 022 LOTY C
SATURATION EFFECTS IN CHANNEL ELECTRON MULTIPLIERS
ACTA ELECTRON., 14, 107, 1971
- 260 72 023 MARK TD OSKAM HJ
FAST REJUVENATION OF COPPER-BERYLLIUM MULTIPLIERS USED WITH MASS SPECTROMETERS
REV. SCI. INSTRUM., 42, 1725, 1971
- 260 72 024 MILLAR IC
DETECTION EFFICIENCY OF CHANNEL ELECTRON MULTIPLIERS TO ELECTROMAGNETIC RADIATION AND POSITIVE IONS
ACTA ELECTRON., 14, 145, 1971
- 260 72 025 NILSSON O
PRESSURE DEPENDENCE OF GAIN AND BACKGROUND FOR PARALLEL PLATE CHANNEL MULTIPLIERS
NUCL. INSTRUM. METHODS, 94, 311, 1971
- 260 72 026 NO AUTHOR
CHANNEL ELECTRON MULTIPLIERS: SINGLE CHANNELS AND CHANNEL PLATES
ELECTRON. APPL., 30, NO. 3, 89, 1971
- 260 72 027 OBA K MAEDA H
1. STEADY OPERATION OF PLANE-PARALLEL CHANNEL ELECTRON MULTIPLIER WITH PARALLEL ELECTRIC FIELD, 2. STEADY OPERATION OF CHANNEL ELECTRON MULTIPLIER WITH INCLINED ELECTRIC FIELD
ELECTRON. COMMUN. JAPAN (ENGL. TRANS.), 53, 92 AND 101, 1970, TRANSLATION OF DENKI ZUSSHIN GAKKAI ZASSHI
- 260 72 028 PAPAYAN GV
ON CALCULATION OF ELECTRON MULTIPLIER NOISE FACTOR
RADIO ENG. ELECTRON. PHYS. USSR (ENGL. TRANS.), 16, 1985, 1971, TRANSLATED FROM RADIOTekh. ELEKTRON., 16, 2240, 1971

- 260 72 029 PARKES W GOTT R
USE OF CASCADED CHANNEL PLATES AS HIGH GAIN ELECTRON MULTIPLIERS
NUCL. INSTRUM. METHODS. 95. 487. 1971
- 260 72 030 PETLEY CH POOK R
SOME APPLICATIONS OF SINGLE CHANNEL MULTIPLIERS
ACTA ELECTRON., 14. NO. 2. 151. 1971
- 260 72 031 PIETRI G SCHAGEN P
CHANNEL ELECTRON MULTIPLIERS
ACTA ELECTRON., 14. 13. 1971
- 260 72 032 POOK R
MANUFACTURE AND PERFORMANCES OF SINGLE CHANNEL ELECTRON MULTIPLIERS
ACTA ELECTRON., 14. 135. 1971
- 260 72 033 POTTER WE MAUERSBERGER K
SPIRAL ELECTRON MULTIPLIER OPERATION CHARACTERISTICS USING POSITIVE IONS
REV. SCI. INSTRUM., 43. 1327. 1972
- 260 72 034 PRYZ S MELO TB KOREN JF
A TWO DIMENSIONAL SCANNER FOR RADIOCHROMATOGRAMS EMPLOYING AN ELECTRON MULTIPLIER DETECTOR IN VACUO
J. CHROMATOG., 59. 99. 1971
- 260 72 035 QUITZOW W BLOCK J
GAS ADSORPTION AND SECONDARY ELECTRON EMISSION IN ELECTRON MULTIPLIERS
Z. ANGEW. PHYS., 31. 193. 1971 IN GERMAN
- 260 72 036 ROME JE CHRISTMAN SB PLUMMER RD
CHANNEL ELECTRON MULTIPLIER OPERATION IN THE CONTINUOUS CURRENT MODE
REV. SCI. INSTRUM., 42. 1733. 1971
- 260 72 037 SACKERLO OH BELANGER VJ
NEW CERAMIC ELECTRON MULTIPLIER
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19. 63. 1972
- 260 72 038 SCHONKEREN JM KATER H THOMPSON LJ
PHOTOMULTIPLIERS
BOOK. N. V. PHILIPS' GLOEILAMPENFABRIEKEN, EINDHOVEN, NETHERLANDS. 1970. 157P
- 260 72 039 SHYUTTE NM SMIRNOVA LP PERVUSHI II
PROPERTIES AND STABILITY OF EXPOSED CHANNEL ELECTRON MULTIPLIERS AS PICKUP UNITS OF CHARGED PARTICLES
PRIB. TEKH. EKSP., P232. 1972 IN RUSSIAN
- 260 72 040 SOUL PB
OPERATIONAL PROPERTIES OF CHANNEL-PLATE ELECTRON MULTIPLIERS
NUCL. INSTRUM. METHODS. 97. 555. 1971
- 260 72 041 TIMOTHY AF TIMOTHY JG
SPACE APPLICATIONS OF SINGLE CHANNEL ELECTRON MULTIPLIERS
ACTA ELECTRON., 14. 159. 1971
- 260 72 042 TOVE PA BERG S ANDERSSO LP
PARALLEL PLATE ELECTRON MULTIPLIERS
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19. 85. 1972. CONF-720306
- 260 72 043 USTINOV VG SHVACHKO VI
SECONDARY ELECTRON MULTIPLIER FOR ML-1305 MASS SPECTROMETER
PRIB. TEKH. EKSP., P236. 1972 IN RUSSIAN
- 260 72 044 VAN GORKOM M GLICK RE
ELECTRON MULTIPLIER RESPONSE UNDER POSITIVE ION IMPACT. 1. SECONDARY ELECTRON EMISSION COEFFICIENTS
J. MASS SPECTRY. ION PHYS., 4. 203. 1971
- 260 72 045 WERNER HW BERG JVD
DETERMINATION OF THE ION INDUCED ELECTRON YIELD FROM A STATISTICAL TREATMENT OF PULSE HEIGHT DISTRIBUTION CURVES MEASURED WITH AN ION-ELECTRON-SCINTILLATION DETECTOR
J. APPL. PHYS., 43. 1524. 1972
- 260 72 046 WOODHEAD AW ESCHARD G
MICROCHANNEL PLATES AND THEIR APPLICATIONS
ACTA ELECTRON., 14. 181. 1971
- 265 72 001 AARTS JFM DE HEER FJ
1. EMISSION CROSS SECTIONS OF A(1)PI STATE OF NO(+). 2. EMISSION CROSS SECTIONS FOR O(1) AND O(11) MULTIPLY RADIATION PRODUCED BY ELECTRON IMPACT ON O2
PHYSICA. 54. 609. AND 56. 294. 1971
- 265 72 002 ACCAD Y PEKERIS CL SCHIFF B
S AND P STATES OF THE HELIUM ISOCLETTRONIC SEQUENCE UP TO Z = 10
PHYS. REV., 4A. 516. 1971
- 265 72 003 AJELLO JM
1. EMISSION CROSS SECTIONS OF CO BY ELECTRON IMPACT IN THE INTERVAL 1260 TO 5000 Å. 2. EMISSION CROSS SECTIONS OF CO BY ELECTRON IMPACT IN THE INTERVAL 1260 TO 4500 Å.
J. CHEM. PHYS., 55. 3158 AND 3169. 1971
- 265 72 004 ALTON GD GARRETT WR TURNER JE
ELECTRON SCATTERING FROM SIMPLE ATOMIC AND MOLECULAR SYSTEMS: A STUDY OF THE PHENOMENOLOGICAL AND MICROSCOPIC OPTICAL MODELS
ORN-4826, THESIS. G.D. ALTON, UNIV. OF TENNESSEE, KNOXVILLE, NOV. 1972. 136P. OAK RIDGE NATIONAL LAB., TENN.
- 265 72 005 ARIKAWA T MOCHIZUKI T IWATA G
APPROXIMATE FORMULA FOR RAINBOW SCATTERING ANGLE
MASS SPECTRY. JAPAN. 20. 167. 1972 IN JAPANESE
- 265 72 006 DACUS PS SCHAEFER HF
LOCALIZED AND DELOCALIZED 1S HOLE STATES OF O2(+) MOLECULAR ION
J. CHEM. PHYS., 56. 224. 1972

- 265 72 007 BANERJI G SIL NC.
ELASTIC SCATTERING OF ELECTRONS AND POSITRONS BY HELIUM ATOMS
INDIAN J. PHYS., 44, NO. 8, 431, 1970
- 265 72 008 BANERJI G BANERJEE SN SIL NC.
GROUND STATE ENERGIES OF THE HE ATOM AND THE LI(+) ION IN THE PADDEEV APPROACH
PHYS. REV., 44, 1705, 1971
- 265 72 009 BASOV Y PANCHENKIGH
ENERGY DISTRIBUTION OF PARTICLES UNDER DOUBLE COLLISIONS
VESTN. MOSK. UNIV., SER. II, KHIM., 12, 357, 1971
- 265 72 010 BAUMANN M EIBOFNER A
LIFETIME OF THE 3P STATE OF IONIZED HELIUM
PHYS. LETT., 35A, 173, 1971
- 265 72 011 BECK D ODABASI H
RELATIVISTIC AND CORRELATION EFFECTS FOR BOUND LEVELS OF ATOMIC SYSTEMS WITH THREE ELECTRONS
AD-732 234, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1970
- 265 72 012 BECK DR SINANOGLU D
RESONANCE TRANSITION PROBABILITIES FOR THIRD-ROW ATOMS AND IONS (MG(II), SI(II-III), P(II,IV), S(II-III), CL(III)) INCLUDING IMPORTANT CORRELATION EFFECTS
PHYS. REV. LETT., 28, 945, 1972
- 265 72 013 BEDERSON B KIEFFER LJ
TOTAL ELECTRON-ATOM COLLISION CROSS SECTIONS AT LOW ENERGIES: A CRITICAL REVIEW
REV. MOD. PHYS., 43, 601-41, 1971
- 265 72 014 BELTRAN-LOPEZ V FLORES MJ NOVARD O
SEPARATION AND EVALUATION OF FIRST-ORDER PERTURBATION INTERMOLECULAR ENERGY TERMS IN LCAO MO SCF CALCULATIONS, APPLICATION TO THE H₂ SYSTEM
CHEM. PHYS. LETT., 11, 417, 1971
- 265 72 015 BIRELY JH MCNEAL RJ
1. FORMATION OF H(2P) AND H(2S) IN COLLISIONS OF 1 TO 25 KEV HYDROGEN ATOMS WITH RARE GASES. 2. LYMAN-ALPHA EMISSION CROSS SECTIONS FOR COLLISIONS OF 1 TO 25 KEV H(+) AND H WITH CO, CO₂, CH₄, AND NH₃
PHYS. REV., 5A, 257, 1972 AND J. CHEM. PHYS., 56, 2189, 1972
- 265 72 016 BLAISE J WYART JF VAN KLEEF TAM
ANALYSIS OF THE SPARK SPECTRUM OF GADOLINIUM: Gd(II).
J. PHYS. (PARIS), 32, 617, 1971
- 265 72 017 BLOOR JE MAKSIK ZB
VALENCE SHELL CALCULATIONS ON POLYATOMIC MOLECULES. 5. MOLECULAR QUADRUPOLE MOMENTS BY CNDO/2D AND SCC METHODS
MOL. PHYS., 22, NO. 2, XXX, 1971
- 265 72 018 BODOR M DEWAR MJ LO DH
GROUND STATES OF SIGMA BONDED MOLECULES. 18. IMPROVED VERSION OF MINDO/2 AND ITS APPLICATION TO CARBONIUM IONS AND PROTONATED CYCLOPROPANES
JACS, 94, 5303, 1972
- 265 72 019 BONHAM RA FINK M
- COMMENT ON ABSOLUTE DIFFERENTIAL CROSS SECTIONS OF ELASTICALLY SCATTERED ELECTRONS. 2. A POLARIZATION SCATTERING POTENTIAL FOR HG AT 500, 400, AND 300 EV
J. CHEM. PHYS., 55, 4116, 1971
- 265 72 020 BOTTCHE C
SIMPLE MODEL FOR SCATTERING OF ELECTRONS BY A ROTATING DIPOLE
CHEM. PHYS. LETT., 9, 57, 1971
- 265 72 021 BREWER L
1. ENERGIES OF THE ELECTRONIC CONFIGURATIONS OF THE LANTHANIDE AND ACTINIDE NEUTRAL ATOMS. 2. ENERGIES OF THE ELECTRONIC CONFIGURATIONS OF THE SINGLY, DOUBLY, AND TRIPLY IONIZED LANTHANIDES AND ACTINIDES
J. OPT. SOC. AMER., 61, 1101 AND 1666, 1971
- 265 72 022 BROWNE JC
MOLECULAR WAVE FUNCTIONS: CALCULATION AND USE IN ATOMIC AND MOLECULAR PROCESSES
ADVANCE AT. MOL. PHYS., 7, 47-95, 1971, 379 REFERENCES
- 265 72 023 BULGER JS GOODINGS JH
ELECTRON ENERGY LOSS SPECTRA OF NO₂ AND SO₂
CAN. J. PHYS., 49, 1437, 1971
- 265 72 024 BURKE PG
SOME RECENT ADVANCES IN THE CALCULATION OF ELECTRON-ATOM COLLISION CROSS SECTIONS
COMMENTS AT. MOL. PHYS., 3, 31-45, DEC. 1971-JAN. 1972
- 265 72 025 BURKE PG ROBB WD
ELASTIC SCATTERING OF ELECTRONS BY HYDROGEN AND HELIUM ATOMS
J. PHYS., B, 5, 44, 1972
- 265 72 026 BURROW PD SANCHE L
ELASTIC SCATTERING OF LOW ENERGY ELECTRONS AT 180 DEGREES IN CO₂
PHYS. REV. LETT., 28, 333, 1972
- 265 72 027 BUSCH GE RENTZEPI PH JORTNER J
ENERGY DECAY CHARACTERISTICS OF BENZOPHENONE
J. CHEM. PHYS., 56, 361, 1972
- 265 72 028 BYRON FW JOACHAIN CJ
ATOMIC REARRANGEMENT COLLISIONS IN THE EIKONAL APPROXIMATION
PHYS. LETT., 38A, 185, 1972
- 265 72 029 CASTEX M DAMANY N
ABSORPTION SPECTRUM OF XENON MOLECULE IN VACUUM ULTRAVIOLET REGION
CHEM. PHYS. LETT., 13, NO. 2, XXX, 1972

- 265 72 030 CERTAIN PR
EXCHANGE PERTURBATION THEORY AND THE HEM(+) ION
J. CHEM. PHYS., 55, 3045, 1971
- 265 72 031 CHANDRA N JOSHI SK
SCATTERING OF ELECTRONS BY DIATOMIC MOLECULES
ADVAN. ASTRON. ASTROPHYS., 7, 1-55, 1970, 139 REFERENCES
- 265 72 032 CHEN AC CHEN JCY RAJAGOPA AK
1. REMARKS ON CONSTRUCTION OF NONRELATIVISTIC COULOMB GREEN'S FUNCTION. 2. OFF-SHELL AND ON-SHELL
UNITARITY RELATIONS IN TWO BODY COULOMB SCATTERING
PHYS. REV., 5A, 2686, 1972 AND PROC. ROY. SOC. (LONDON), SER. A, 4, 2226, 1971
- 265 72 033 CHEN JCY JOACHAIN CJ WATSON KM
1. MULTISCATTERING EXPANSIONS FOR NONRELATIVISTIC THREE BODY COLLISION PROBLEMS. 2. ELECTRONIC
TRANSITIONS IN SLOW COLLISIONS OF ATOMS AND MOLECULES. IV. MULTISTATE EIKONAL APPROXIMATION FOR
QUASADIABATIC TRANSITIONS. 3. EIKONAL THEORY OF INELASTIC ELECTRON-ATOM SCATTERING AT
INTERMEDIATE ENERGIES
PHYSICA, 53, 333, 1971 AND PHYS. REV., 5A, 1268 AND 2460, 1972
- 265 72 034 CHEN JCY CHUNG KT SINFALA A MIZUNO J
1. COUPLED EQUATION THEORY WITH A SELF CONSISTENT OPTICAL POTENTIAL FOR SCATTERING AND REARRANGEMENT
COLLISIONS. 2. VARIATIONAL APPROACH TO FESHBACH EQUATIONS FOR SCATTERING. 3. APPLICATION OF
FADDEEV AND WATSON TECHNIQUES TO ATOMIC COMPOSITE PARTICLE PROBLEMS
1. PHYS. REV., 4A, 1517, 1971. 2. PHYS. REV. LETT., 27, 1112, 1971. 3. J. CHEM. PHYS., 56, 951, 1972
- 265 72 035 CLERC M SCHMIDT M
STIMULATED EMISSION FROM THE FIRST AND SECOND POSITIVE SYSTEMS OF N₂ BY PULSED RADIOLYSIS
COMPT. REND., SER. B, 272, 668, 1971 IN FRENCH
- 265 72 036 COMES FJ SPEIER F
LUMINESCENCE OF DIATOMIC MOLECULAR IONS. 1. FRANCK-CONDON FACTORS AND COLLISIONAL DEACTIVATION
Z. NATURFORSCH., 26A, 1998, 1971
- 265 72 037 CONNERADE JP PEACOCK NJ SPEER RJ
SPECTRUM OF MULTIPLY IONIZED ARGON BETWEEN 20 AND 40 ANGSTROMS
SOLAR PHYS., 19, 43, 1971
- 265 72 038 CONNERADE JP
ABSORPTION SPECTRUM OF TL(I) IN VACUUM ULTRAVIOLET
ASTROPHYS. J., 172, 213, 1972
- 265 72 039 CORNEY A
MEASUREMENT OF LIFETIMES OF FREE ATOMS, MOLECULES, AND IONS
ADVAN. ELECTRON. ELECTRON PHYS., 29, 115-231, 1970
- 265 72 040 COSTELLO DG GROCE DE HERRING DF MCGOWAN JW
(E(+), HE) TOTAL SCATTERING
CAN. J. PHYS., 50, 23, 1972
- 265 72 041 COWAN RD
THEORY OF RARE EARTH ENERGY LEVELS AND SPECTRA
LA-DC-72-1149, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1972, 38P, CONF-721033-1, FROM 3RD
INTERNATIONAL CONFERENCE ON BEAM FOIL SPECTROSCOPY, TUCSON, ARIZ., OCT. 2, 1972
- 265 72 042 CROOKS GB DUBOIS RD GOLDEN DE RUDD ME

OBSERVATION OF A BROAD RESONANCE IN THE 2(3)S EXCITATION OF HELIUM BY ELECTRON IMPACT
PHYS. REV. LETT., 29, 327, 1972
- 265 72 043 CROSS RJ
SEMICLASSICAL TRANSITION PROBABILITIES FOR ROTATIONALLY INELASTIC SCATTERING
J. CHEM. PHYS., 55, 510, 1971
- 265 72 044 CSANAK G TAYLOR HS YARIS R
GREEN'S FUNCTION TECHNIQUE IN ATOMIC AND MOLECULAR PHYSICS
ADVAN. AT. MOL. PHYS., 7, 287-361, 1971, 60 REFERENCES
- 265 72 045 CUSACKS LC ALDRICH HS
EFFECTIVE PRINCIPAL QUANTUM NUMBERS OF VALENCE ATOMIC ORBITALS
CHEM. PHYS. LETT., 12, 197, 1971
- 265 72 046 DAVID F
REDOX POTENTIALS AND ELECTRONIC STRUCTURE. 1. 3D, 4D, AND 5D TRANSITION ELEMENTS
UCRL-TRANS-10636, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., FROM REPORT RC-71.05, 31P
- 265 72 047 DAWSON PH TAM WC
VIBRATIONAL ENERGY TRANSFER IN CARBON MONOXIDE
CAN. J. PHYS., 50, 889, 1972
- 265 72 048 DE JONGH DC THOMSON ML
SEMIEMPIRICAL MOLECULAR ORBITAL STUDY OF O-PHENYLENE CARBONATE AND O-PHENYLENE SULFITE
J. ORG. CHEM., 37, 1135, 1972
- 265 72 049 DECOSTER A
CENTRAL POTENTIAL FROM A VARIATIONAL POLARIZED ORBITAL METHOD
PHYS. REV., 4A, 800, 1971
- 265 72 050 DEWAR MJ SCHOELE W LO DH KCHN MC
GROUND STATES OF SIGMA BONDED MOLECULES. 13. 7-NORBORNYL, 7-NORBORNYL, AND 7-NORBORNADIENYL IONS
AND RADICALS. 14. APPLICATION OF ENERGY PARTITIONING TO MINO/2 METHOD AND A STUDY OF COPE
REARRANGEMENT. 15. BARRIERS TO ROTATION ABOUT CARBON-CARBON BONDS. 16. REARRANGEMENT OF METHYL
ISOCYANIDE TO ACETONITRILE
TETRAHEDRON, 27, 4401, 1971, AD-740 415, 1971, AND JACS, 93, 7201, 1971 AND 94, 2699 AND 2704, 1972
- 265 72 051 DOBAY-SZEGLETH A
1. CALCULATION OF ELECTRON SCATTERING ON THE BASIS OF THE STATISTICAL ATOMIC MODEL IN WHICH THE
ELECTRONS ARE GROUPED ACCORDING TO THE PRINCIPAL QUANTUM NUMBER. 2. CALCULATION OF ELECTRON
SCATTERING USING THE STATISTICAL ATOM MODEL INCLUDING THE INHOMOGENEITY CORRECTION
ACTA PHYS. ACAD. SCI. HUNG., 29, 359, 1970 AND 30, 55, 1971

- 265 72 052 DOERING JP MOORE JH
OBSERVATION OF A SINGLET-TRIPLET TRANSITION IN GAS PHASE PYRIDINE BY ION AND ELECTRON IMPACT
J. CHEM. PHYS., 56, 2176, 1972
- 265 72 053 DOLL JD REINHARD WP
MANY BODY GREEN'S FUNCTIONS FOR FINITE, NONUNIFORM SYSTEMS: APPLICATIONS TO CLOSED SHELL ATOMS
CAN. J. PHYS., 57, 1169, 1972 (VOL. MAYBE 50)
- 265 72 054 DUNCAN AB WHITLOCK RF
VACUUM ULTRAVIOLET ABSORPTION SPECTRUM OF CARBONYL CYANIDE
SPECTROCHIM. ACTA, 27A, NO. 12, XXX, 1971
- 265 72 055 DUNITZ JD HA TK
NONEMPIRICAL SCF CALCULATIONS ON HYDROGEN LIKE MOLECULES: EFFECT OF NUCLEAR CHARGE ON BINDING ENERGY
AND BOND LENGTH
J. CHEM. SOC., CHEM. COMMUN., PS68, 1972
- 265 72 056 DUXLER WM
STUDY OF THE POLARIZED ORBITAL METHOD AND ITS APPLICATION TO THE SCATTERING OF ELECTRONS BY HELIUM
THESIS, UNIV. OF CALIFORNIA, RIVERSIDE, 1971, 126P. UNIV. MICROFILMS ORDER NO. 71-27,084
- 265 72 057 DUXLER WM POE RT LABAHN RW
STUDY OF POLARIZED ORBITAL METHOD AND ITS APPLICATION TO SCATTERING OF ELECTRONS BY HELIUM
PHYS. REV., 4A, 1935, 1971
- 265 72 058 DZYUBLIK AY
VIBRATION-ROTATION LEVELS OF LINEAR XY₂ MOLECULES
ITF-71-22-P, AKADEMIYA NAUK UKRAINSKOI SSR, KIEV, INSTITUT TEORETICHESKOI FIZIKI, 1971, 17P IN
RUSSIAN
- 265 72 059 ECKELT P KORSCH HJ
QUANTUM-MECHANICAL IMPULSE APPROXIMATION: APPLICATION TO VIBRATIONAL INELASTIC SCATTERING
CHEM. PHYS. LETT., 11, 313, 1971
- 265 72 060 EDVINSSON G
SPECTROSCOPIC STUDIES OF THE DIATOMIC MOLECULES HFO AND THO
USIP-71-9, STOCKHOLM UNIV., SWEDEN, INST. OF PHYSICS, NOV, 1971, 19P
- 265 72 061 EHRENSON S NEWTON MD
AB INITIO STUDIES OF HYDROGEN EXCHANGE AND ABSTRACTION IN H + CH₄ SYSTEM
CHEM. PHYS. LETT., 13, 24, 1972
- 265 72 062 EHRHARDT H
COINCIDENCE TECHNIQUES IN SCATTERING
PP 141-54 OF ATOMIC PHYSICS 2, SANDARS, P.G.M. (ED.), PLENUM PRESS, LONDON, 1971, FROM 2ND
INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS, OXFORD, ENGLAND, JULY 21, 1970, 21 REFERENCES
- 265 72 063 EU BC
THEORY OF INELASTIC COLLISIONS: UNIFORM ASYMPTOTIC (WKB) SOLUTIONS AND SEMICLASSICAL SCATTERING
MATRIX ELEMENTS FOR MULTICHANNEL PROBLEMS
J. CHEM. PHYS., 56, 2507, 1972
- 265 72 064 FAISAL SHM TENCH ALV
PROGRAM FOR CALCULATING THE STATIC INTERACTION POTENTIAL BETWEEN AN ELECTRON AND A DIATOMIC MOLECULE
COMPUT. PHYS. COMMUN., 2, NO. 5, 261, 1971
- 265 72 065 FEAUTRIER N VAN REGENMORTER H LAN VK
METHOD OF POLARIZED ORBITALS, 2, THE CLOSE-COUPPLING METHOD USING A POLARIZED ORBITAL EXPANSION
J. PHYS. B, 4, 670, 1971
- 265 72 066 FELS MF HAZI AU
CALCULATION OF ENERGIES AND WIDTHS OF COMPOUND STATE RESONANCES IN ELASTIC SCATTERING: STABILIZATION
METHOD
PHYS. REV., 4A, 662, 1971
- 265 72 067 FENG D KEVAN I FUEKI K CHRISTOP R
A SEMICONTINUUM MODEL FOR THE HYDRATED ELECTRON, 2, CONFIGURATIONAL STABILITY OF THE GROUND STATE
AD-730 207, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1970
- 265 72 068 GANAS PS
EFFECTIVE RANGE THEORY FOR VAN DER WAALS SCATTERING
PHYS. REV., 5A, 1684, 1972
- 265 72 069 GARBATY EA LABAHN RW
SCATTERING OF SLOW ELECTRONS BY NEON AND ARGON
PHYS. REV., 4A, 1425, 1971
- 265 72 070 GEMENN W WILMERS M
DIFFERENTIAL CROSS SECTIONS FOR ELASTIC SCATTERING OF LOW ENERGY ELECTRONS BY POTASSIUM
Z. PHYS., 244, 395, 1971 IN GERMAN
- 265 72 071 GERJUDY E
THREE PARTICLE PROBLEM IN ATOMIC PHYSICS
PP 271-88 OF ATOMIC PHYSICS 2, SANDARS, P.G.M. (ED.), PLENUM PRESS, LONDON, 1971, FROM 2ND
INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS, OXFORD, ENGLAND, JULY 21, 1970, 38 REFERENCES
- 265 72 072 GERRATT J
GENERAL THEORY OF SPIN COUPLED WAVE FUNCTIONS FOR ATOMS AND MOLECULES
ADVAN. AT. MOL. PHYS., 7, 141-221, 1971, 90 REFERENCES
- 265 72 073 GILBERT TL WAHL AC
SINGLE CONFIGURATION WAVE FUNCTIONS AND POTENTIAL CURVES FOR LOW LYING STATES OF HE2(+), NE2(+),
AR2(+), F2(-) AND CL2(-), AND THE GROUND STATE OF CL2
J. CHEM. PHYS., 55, 5247, 1971
- 265 72 074 GODDARD WA HUESTIS DL CARTWRIGHT DC TRAJMAR S
GROUP THEORETICAL SELECTION RULES FOR ELECTRON IMPACT SPECTROSCOPY
CHEM. PHYS. LETT., 11, 329, 1971

- 265 72 075 GODDARD WA LADNER RC
GENERALIZED ORBITAL DESCRIPTION OF THE REACTIONS OF SMALL MOLECULES
JACS, 93, 6750, 1971
- 265 72 076 GARY RL HASELTON MH KRAUSE D SOLTYSIK EA
VIBRATIONAL STRUCTURE IN ELECTRON SCATTERING BY O₂
CHEM. PHYS. LETT., 13, 51, 1972
- 265 72 077 HAGAN L MARTIN WC
BIBLIOGRAPHY ON ATOMIC ENERGY LEVELS AND SPECTRA: JULY 1968 - JUNE 1971
NAT. BUR. STAND. (U.S.), SPEC. PUBL., NO. 363, 1-103, JUNE 1972, 1100 REFERENCES
- 265 72 078 HALL RI JOYEZ G MAZEAU J REINHARDT J SCHERMANN C
1. EXCITATION OF N=2 HELIUM LEVELS BY LOW ENERGY ELECTRONS (30 TO 50 EV). ANGULAR DISTRIBUTION OF
THE SCATTERED ELECTRONS. 2. NEAR THRESHOLD ELECTRON IMPACT EXCITATION FUNCTIONS FOR THE N=2 STATES
OF HELIUM BY THE TRAPPED ELECTRON METHOD
1. COMPT. REND., SER. B, 272, 743, 1971 IN FRENCH. 2. J. PHYS. B, 5, 66, 1972
- 265 72 079 HAMILL WM
SINGLE ION TRANSITIONS IN IONIC DIATOMIC MOLECULES
J. CHEM. PHYS., 56, 4191, 1972
- 265 72 080 HANCOCK JH JONES RC MILLS CB
NUMERICAL SOLUTION OF THE BOLTZMANN EQUATION FOR ENERGY DISTRIBUTIONS OF ELECTRONS WITH INELASTIC
SCATTERING ON MOLECULES
LA-4823, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, MAY 1972, 70P
- 265 72 081 HARSHBARGER WR
STRUCTURE OF THE (2)A(1)'' STATE OF NH₃(+)
J. CHEM. PHYS., 56, 177, 1972
- 265 72 082 HELD S
NEW EVEN LEVELS OF ER(II)
ASTROPHYS. J., 167, 203, 1971
- 265 72 083 HELLER EJ REINHARD WP
JOINT FUNCTION INTERPOLATION OF SCATTERING CROSS SECTIONS
PHYS. REV., 5A, 757, 1972
- 265 72 084 HENRY RJM LANE NF
IONIZATION AND EXCHANGE EFFECTS IN LOW ENERGY ELECTRON-O₂ SCATTERING
PHYS. REV., 4A, 410, 1971
- 265 72 085 HERSENBERG A
COMPOUND STATES IN ATOMIC PHYSICS
PHYS. BULL. (LONDON), 22, 521, 1971
- 265 72 086 HERZBERG G
SPECTROSCOPIC STUDIES OF MOLECULAR STRUCTURE
SCIENCE, 177, 123, 1972. LECTURE DELIVERED TO NOBEL FOUNDATION, STOCKHOLM, SWEDEN, 1971
- 265 72 087 HINCHLIFF A
AB INITIO MOLECULAR ORBITAL CALCULATIONS FOR BUTADIENE AND ITS IONS
J. MOL. STRUCT., 10, 379, 1971
- 265 72 088 HOFFMAN MK BURSEY MM

STRUCTURE OF THE MOLECULAR ION OF C₇H₈ ISOMERS: AN ICE STUDY
TETRAHEDRON LETT., P2539, 1971
- 265 72 089 HOFFMANN R HOWELL JM MUETTER EL
MOLECULAR ORBITAL THEORY OF PENTACOORDINATE PHOSPHORUS
JACS, 94, 3047, 1972
- 265 72 090 HOLLAND RF MAIER WB
PRODUCTION OF LIGHT BY COLLISIONS OF 2.5 TO 490 EV HE(I) WITH N₂: N(I), N₂(+) SECOND NEGATIVE, AND
UNRESOLVED EMISSIONS BETWEEN 1200 AND 3200 Å
J. CHEM. PHYS., 55, 1299, 1971
- 265 72 091 HOLT AR HUNT J MOISEWITSCH BL
1. FORWARD ELASTIC SCATTERING OF ELECTRONS BY HELIUM. 2. APPLICATION OF A SIMPLIFIED SECOND BORN
APPROXIMATION TO THE SCATTERING OF ELECTRONS AND PROTONS BY HELIUM ATOMS
J. PHYS. B, 4, NO. 6, L41 AND NO. 10, 1318, 1971
- 265 72 092 HUDSON CE BAULD NL
A QUANTITATIVE ANALYSIS OF CYCLOPROPYL BETA HYPERFINE SPLITTINGS
JACS, 94, 1158, 1972
- 265 72 093 HUEBNER RH LINDNER DL MIELCZAREK SR KUYATT CE
ELECTRON ENERGY LOSS SPECTRUM OF ACETONE: PRELIMINARY REPORT
PP 16-27 OF ANI-7860(PT.1), ANNUAL REPORT 1970 - 1971, RADIOLOGICAL PHYSICS DIVISION OF NATIONAL
BUREAU OF STANDARDS, WASHINGTON, D.C., 1971
- 265 72 094 HUMPHRIS D
LOW ENERGY ELECTRON STUDIES IN NITROGEN
TID-25904, THESIS, FLORIDA STATE UNIV., TALLAHASSEE, SEPT. 1971, 89P
- 265 72 095 HUD WM
EFFECTIVE LONG RANGE POTENTIAL FOR SCATTERING OF ELECTRONS BY ATOMS AND MOLECULES
J. CHEM. PHYS., 56, 3468, 1972
- 265 72 096 HUZINAGA S CANTU AA
THEORY OF SEPARABILITY OF MANY ELECTRON SYSTEMS
J. CHEM. PHYS., 55, 5543, 1971
- 265 72 097 IMMHOFF RE READ FH
NEW ELECTRON-PHOTON COINCIDENCE METHOD FOR THE MEASUREMENT OF LIFETIMES IN ATOMS AND MOLECULES
J. PHYS. B, 4, 450, 1971
- 265 72 098 INOKUTI M
INELASTIC COLLISIONS OF FAST CHARGED PARTICLES WITH ATOMS AND MOLECULES: THE BETHE THEORY REVISITED
REV. MOD. PHYS., 43, NO. 2, 297-347, 1971, 362 REFERENCES

- 265 72 099 INUZUKA K BECKER RS
AN APPROACH FOR CALCULATION OF N₂P₁ STATE ENERGIES OF SOME CARBONYL MOLECULES WITHIN FRAMEWORK OF
SEMIEMPIRICAL SCF-MO-CI METHOD
BULL. CHEM. SOC. JAPAN, 45, 1557, 1972
- 265 72 100 ISAACS NS CVITAS D
MOLECULAR ORBITAL CALCULATIONS ON ORGANIC MOLECULES. 2. CNDO SOLUTIONS FOR POLYMETHYLBENZENES AND
BENZENONIUM IONS
TETRAHEDRON, 27, 4139, 1971
- 265 72 101 IVANOV YA POLAK LS SLOVETSK DI
ELECTRON ENERGY DISTRIBUTION IN A GLOW DISCHARGE IN MOLECULAR GASES
HIGH TEMP. USSR (ENGL. TRANS.), 9, 1061, 1971
- 265 72 102 JAECKS DH CRANDALL OH MCKNIGHT RH
PROTON-NITROGEN COLLISIONS LEADING TO PRODUCTION OF METASTABLE 2S HYDROGEN ATOMS
PP 881-2 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM 1969 CONFERENCE IN KYOTO, JAPAN
- 265 72 103 JOACHAIN CJ WITTELMAN MH
EIKONAL THEORY OF INTERMEDIATE ENERGY ELECTRON-ATOM SCATTERING
PHYS. REV., 4A, 1492, 1971
- 265 72 104 JOHNSON JD BROLLEY JE
ELASTIC SCATTERING OF PROTONS AND ELECTRONS FROM HELIUM ATOMS IN THE GLAUBER APPROXIMATION
PROGR. THEOR. PHYS. (KYOTO), 44, 1700, 1970
- 265 72 105 JOHNSON KH SMITH FC
SCF MOLECULAR ORBITAL STUDIES OF THE SULPHATE ION BY SCATTERED WAVE MODEL
AD-739 781, NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151,
1971
- 265 72 106 JUDD BR
SELECTION RULES WITHIN ATOMIC SHELLS
ADVANCE. AT. MOL. PHYS., 7, 251-86, 1971, 50 REFERENCES
- 265 72 107 JULIENNE PS KRAUSS M WAHL AC
HARTREE-FOCK ENERGY CURVES FOR X DOUBLET P₁ AND DOUBLET SIGMA(+) STATES OF HF(+))
COM-72-5025, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22161, 1971
- 265 72 108 KARULE EM PETERKOP RK
DIFFERENTIAL CROSS SECTIONS FOR THE INELASTIC SCATTERING OF ELECTRONS BY ALKALI ATOMS
LATV. PSR ZINAT. AKAD. VESTIS. FIZ. TEM. ZINAT. SER., NO. 1, 3, 1971 IN RUSSIAN
- 265 72 109 KAUFMAN V SUGAR J
ONE ELECTRON SPECTRUM OF DOUBLY IONIZED LUTETIUM (Lu(III)) AND NUCLEAR MAGNETIC DIPOLE MOMENT OF
Lu(III)
J. OPT. SOC. AMER., 61, 1693, 1971
- 265 72 110 KAUPPILA WE TEUBNER PJO FITE WL GIRNIUS RJ
LYMAN-ALPHA EMISSION INDUCED BY THE COLLISIONS OF ELECTRONS WITH MOLECULAR HYDROGEN
J. CHEM. PHYS., 55, 1670, 1971
- 265 72 111 KINELL P LUND A
MOLECULAR ORBITAL CALCULATIONS OF STABILITY AND SPIN DENSITY DISTRIBUTION IN POLYMERIC AROMATIC
RADICAL IONS
ACTA CHEM. SCAND., 26, 444, 1972
- 265 72 112 KISELEV AA OB'EDKOV VO YUROVA IY
INELASTIC SCATTERING OF ELECTRONS BY MOLECULES WITH THE RENNER EFFECT
ZH. EKSP. TEOR. FIZ., 61, 1835, 1971 IN RUSSIAN
- 265 72 113 KLYKOV II POPOVA TN
1. ANALOG OF LADENBURG-LEVY FUNCTION FOR ELECTRON-VIBRATIONAL BAND FOR TWO ATOMIC MOLECULES. 2.
EXPERIMENTAL DETERMINATION OF CONCENTRATION OF MOLECULES N₂ AT VIBRATIONAL LEVELS OF B(3)PI(G)
STATE BY MEANS OF REABSORPTION METHOD
IZV. VYSSH. UCHEB. ZAVED., FIZ., NO. 6, P24 AND P133, 1972
- 265 72 114 KOLLAR J SOLT G
SIMPLE ANALYTICAL WAVE FUNCTIONS FOR THE IONS OF THE IRON GROUP ELEMENTS
KFKI-72-45, MAGYAR TUDOMANYOS AKADEMIA KOZPONTI FIZIKAI KUTATO INTEZETE, BUDAPEST, JULY 1972, 23P
- 265 72 115 KRAUSS M MIELCZAREK SR NEUMANN D KUYATT CE
MECHANISM FOR PRODUCTION OF THE FOURTH POSITIVE BAND SYSTEM OF CO BY ELECTRON IMPACT ON CO₂
J. GEOPHYS. RES., 76, 3733, 1971
- 265 72 116 KUDER JE
HMO CONSIDERATION OF FACTORS AFFECTING TAUTOMERISM IN HYDROXYARYLAZO COMPOUNDS
TETRAHEDRON, 28, 1973, 1972
- 265 72 117 LARKIN IM HASTED JB
ELECTRON TRANSMISSION STUDIES OF DECAY CHANNELS OF MOLECULAR RESONANCES
J. PHYS. B, 5, 95, 1972
- 265 72 118 LARKINS FP
1. DEPENDENCE OF FLUORESCENCE YIELD ON ATOMIC CONFIGURATION. 2. CORRELATION DIAGRAMS: THEIR USE IN
THE INTERPRETATION OF HEAVY ION-ATOM INELASTIC COLLISIONS
J. PHYS. B, 4, NO. 5, L29, 1971 AND 5, 571, 1972
- 265 72 119 LASSETTRE EN SKERBELE A
1. ABSOLUTE GENERALIZED OSCILLATOR STRENGTHS FOR FOUR ELECTRONIC TRANSITIONS IN CARBON MONOXIDE. 2.
ELECTRONIC COLLISION CROSS SECTIONS
AD-742 182, 1970. AND AD-738 323, 1972. NATIONAL TECHNICAL INFORMATION SERVICE, U.S. DEPT. OF
COMMERCE, SPRINGFIELD, VA, 22151
- 265 72 120 LEE ST MOROKUMA K
AB INITIO MOLECULAR ORBITAL STUDIES ON STRUCTURE OF NITRENIUM ION AND ITS IMPLICATION
JACS, 93, 6863, 1971

- 265 72 121 LEVINE RD
CLASSICAL EVALUATION OF AVERAGED COLLISION RATES: EHRENFEST THEOREM IN NEAR CLASSICAL COLLISION THEORY
J. CHEM. PHYS., 56, 1633, 1972
- 265 72 122 LINDEMAN E ROZETT RW KOSKI WS
ELECTRONIC STATES OF H₂O(+) PRODUCED BY ELECTRON BOMBARDMENT OF H₂O
J. CHEM. PHYS., 56, 5490, 1972
- 265 72 123 LINDER F SCHMIDT H
EXPERIMENTAL STUDY OF LOW ENERGY E-O₂ COLLISION PROCESSES
Z. NATURFORSCH., 26A, 1617, 1971
- 265 72 124 LIU HP VERHAEGE G
THEORETICAL CALCULATION OF ELECTRONIC STATES OF MOLECULE LIO
BULL. SOC. CHIM. BELGES, 81, 109, 1972
- 265 72 125 LODATO VA KATSUURA K
TEMPERATURE DEPENDENCE FOR DESTRUCTION OF METASTABLE HE(2(3)S) ATOMS
J. CHEM. PHYS., 55, 1999, 1971
- 265 72 126 LUNDIN L ODNA H BICKEL WS MARTINSO-I
MEAN LIVES OF THE 2P, 3P, 4P, 5P, AND 6P DOUBLET P LEVELS IN HE(II)
AD-730 164, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1970
- 265 72 127 MAIER WB HOLLAND RF
SPECTRUM OF EMISSION FROM LONG LIVED STATES IN A NITROGEN ION BEAM
J. CHEM. PHYS., 55, 2602, 1971
- 265 72 128 MARSMANN H ROBERT J VAN WAZER JR
SOME AB INITIO LCAO-MO-SCF STUDIES OF ELECTRONIC STRUCTURE OF CYCLOPROPANE TETRAHEDRON, 27, 4377, 1971
- 265 72 129 MARTIN WC
ENERGY DIFFERENCES BETWEEN TWO SPECTROSCOPIC SYSTEMS IN NEUTRAL, SINGLY IONIZED, AND DOUBLE IONIZED LANTHANIDE ATOMS
J. OPT. SOC. AMER., 61, 1682, 1971
- 265 72 130 MASSA LJ EHRENSON S WOLFSBERG M
GAUSSIAN MOLECULAR ORBITAL CALCULATIONS OF HYPERCONJUGATION IN ETHYL CATION
CHEM. PHYS. LETT., 11, 190, 1971
- 265 72 131 MATHUR KC TRIPATHI AN JOSHI SK
ELASTIC SCATTERING OF ELECTRONS BY LITHIUM ATOMS USING MODIFIED GLAUBER APPROXIMATION
J. PHYS. B, 4, NO. 6, L39, 1971
- 266 72 132 MCCARROLL R PIACENTINI RO
ROTATIONAL COUPLING EFFECTS ON DIFFERENTIAL ELASTIC AND INELASTIC CROSS SECTIONS IN HE(+) - HE COLLISIONS
J. PHYS. B, 4, 1026, 1971
- 265 72 133 MCDOWELL MRC
PHASE SHIFT ANALYSIS OF ELECTRON-ATOM SCATTERING
PP 289-306 OF ATOMIC PHYSICS 2, SANDARS, P.G.H. (ED.), PLENUM PRESS, LONDON, 1971, FROM 2ND INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS, OXFORD, ENGLAND, JULY 21, 1970, 32 REFERENCES
- 265 72 134 MERKEL PB HAMILL WH
EVIDENCE FOR A LOW LYING TRIPLET STATE OF HYDROXIDE ION
J. CHEM. PHYS., 55, 2174, 1971
- 265 72 135 MIELCZAREK SR MILLER KJ
DEPENDENCE OF GENERALIZED OSCILLATOR STRENGTHS OF H₂O ON MOMENTUM TRANSFER
CHEM. PHYS. LETT., 10, 369, 1971
- 265 72 136 MNATSAKANYAN AK PODLUBNYI LI
CHANGE OF THE VIBRATIONAL DISTRIBUTION FUNCTION IN TRANSITIONS BETWEEN ELECTRON STATES IN DIATOMIC MOLECULES DUE TO COLLISIONS WITH ELECTRONS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1680, 1972, TRANSLATED FROM ZH. TEKH. FIZ., 41, 2121, 1971
- 265 72 137 MODDEMAN WE LAKSLUM JA KRAUSE MO
DETERMINATION OF K-LL AUGER SPECTRA OF N₂, O₂, CO, NO, H₂O, AND CO₂
J. CHEM. PHYS., 55, 2317, 1971
- 265 72 138 MOORE JH
ION IMPACT ENERGY LOSS SPECTRUM OF OXYGEN
J. CHEM. PHYS., 55, 2760, 1971
- 265 72 139 MOSER C
ATOMIC AND MOLECULAR WAVE FUNCTIONS
G.1-7 OF COMPUTATIONAL PHYSICS, VOLUMES I AND II, HER MAJESTY'S STATIONERY OFFICE, LONDON, 1969, FROM CONFERENCE HELD AT CULHAM, ENGLAND, JULY 28, 1969, CONF-690706(VOLS.1 AND 2)
- 265 72 140 MURRELL JN HARGREI AJ
SEMIEMPIRICAL SELF-CONSISTENT-FIELD MOLECULAR ORBITAL THEORY OF MOLECULES
BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS INC., NEW YORK, 1972, 180P
- 265 72 141 NEWELL WR ROSS KJ WICKES JBP
1. GENERALIZED OSCILLATOR STRENGTHS IN THE ELECTRON IMPACT SPECTRA OF CADMIUM VAPOUR. 2. HIGH RESOLUTION STUDY OF ELECTRON IMPACT SPECTRUM OF ZINC VAPOUR AT KINETIC ENERGIES OF 50-150 EV AND IN ANGULAR RANGE OF 0-11 DEGREES
J. PHYS. B, 4, 684, 1971 AND 5, 701, 1972
- 265 72 142 NITZAN A JORTNER J
INTRAMOLECULAR NONRADIATIVE TRANSITIONS IN 'NON-CONDON' SCHEME
J. CHEM. PHYS., 56, 3360, 1972
- 265 72 143 NO AUTHOR
INTERNATIONAL SYMPOSIUM ON THE THEORY OF ATOMIC STRUCTURE, GIF-SUR-YVETTE, FRANCE, JULY 8-11, 1970
J. PHYS. (PARIS), COLLOQ., 31, NO. 11-12, C.1-239, 1970 IN FRENCH AND ENGLISH, CONF-700718, 21 PAPERS

- 265 72 144 NO AUTHOR
ATOMIC AND MOLECULAR CROSS SECTIONS
PP-102-9 OF ORNL-4688, THERMONUCLEAR DIVISION ANNUAL PROGRESS REPORT, OAK RIDGE NATIONAL LAB., TENN.
- 265 72 145 NO AUTHOR
ATOMIC AND MOLECULAR SPECTROSCOPY
PP-176-204 OF UCRL-21426, FROM NUCLEAR CHEMISTRY, CALIFORNIA UNIV., BERKELEY, LAWRENCE RADIATION LAB., MAY 1971
- 265 72 146 NUGENT LJ VANDER SLUIS KL
THEORETICAL TREATMENT OF THE ENERGY DIFFERENCES BETWEEN $F(0)D(1)S(2)$ AND $F(0+1)S(2)$ ELECTRON CONFIGURATIONS FOR LANTHANIDE AND ACTINIDE ATOMIC VAPORS
J. OPT. SOC. AMER., 61, 1112, 1971
- 265 72 147 O'HARE PAG WAHL AC
1. MOLECULAR ORBITAL INVESTIGATION OF CF AND SIF AND THEIR POSITIVE AND NEGATIVE IONS. 2. THERMOCHEMICAL AND THEORETICAL INVESTIGATIONS OF SODIUM-OXYGEN SYSTEM. II. PROPERTIES OF NAO AND ITS IONS FROM HARTREE-FOCK MOLECULAR ORBITAL STUDIES
J. CHEM. PHYS., 55, 566, 1971 AND 56, 4516, 1972
- 265 72 148 O'MALLEY TF
ADIABATIC STATES OF MOLECULES: QUASISTATIONARY ELECTRONIC STATES
ADVANCE. AT. MOL. PHYS., 7, 223-49, 1971, 27 REFERENCES
- 265 72 149 PALMER MH GASKELL AJ BARBER M
AB INITIO MOLECULAR ORBITAL CALCULATIONS. 4. ELECTRONIC STRUCTURE OF SYDNONES
J. MOL. STRUCT., 12, 197, 1972
- 265 72 150 PARIKH JC SVENNE JP
HOW GOOD IS THE HARTREE-FOCK APPROXIMATION FOR $O(16)$?
COO-2171-1A, ROCHESTER UNIV., N.Y., DEPT. OF PHYSICS AND ASTRONOMY, PHYSICAL RESEARCH LAB., AHMEDABAD, INDIA, MANITOBA UNIV., WINNIPEG, CANADA, DEPT. OF PHYSICS, 1971, 13P, UR-406
- 265 72 151 PERKINS PG
ELECTRONIC STRUCTURE OF SOME MOLECULES AND IONS CONTAINING CARBON, SILICON, OXYGEN, AND SULPHUR. 1.
REV. ROUM. CHIM., 17, 773, 1972
- 265 72 152 POLAK LS SLOVETSKII DI
EXCITATION OF THE ELECTRONIC LEVELS OF THE NITROGEN MOLECULE BY ELECTRON IMPACT
HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 6, 72, 1972, TRANSLATED FROM KHIM. VYS. ENERG., 6, 87, 1972
- 265 72 153 PURCELL KF DOLPH TG
LOCALIZED ORBITAL MODEL FOR CARBONYL DONORS
JACS, 94, 2693, 1972
- 265 72 154 RANINDVI BS DUEWER WM WILLIAMS GJ
SOME RELATIVE TOTAL SCATTERING CROSS SECTIONS FOR HOMOLOGOUS SERIES OF POLAR AND NONPOLAR MOLECULES
AD-730 005, NATIONAL TECHNICAL INFORMATION SERVICE, (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1970
- 265 72 155 RABITZ HA
MATRIX SHAPE APPROACH TO SCATTERING THEORY
J. CHEM. PHYS., 55, 407, 1971
- 265 72 156 RAFFENETTI RC
EVEN TEMPERED ATOMIC ORBITALS IN QUANTUM CHEMICAL AB INITIO CALCULATIONS: LIGHT ATOMS, HEAVY ATOMS,

AND TRIATOMIC ALKALI IONS
IS-T-456, THESIS, IOWA STATE UNIV., AMES, JUNE 1971, 291P, AMES LAB., USAEC
- 265 72 157 RAMAKER DE
ONE CENTER, TWO ELECTRON INTEGRALS ARISING IN ELECTRON-ION SCATTERING CALCULATIONS
J. MATH. PHYS. (NEW YORK), 13, 161, 1972
- 265 72 158 RAYODINA OV ELISEEV AA POPOVA TN
RELATIVE POPULATIONS OF VIBRATIONAL LEVELS FOR NITROGEN STATE $B(3)P(1)G$ IN A GLOW DISCHARGE
IZV. VYSSH. UCHEB. ZAVED., FIZ., NO. 2, 64, 1972
- 265 72 159 RAYMONDA J KLENPERE W
MOLECULAR BEAM ELECTRIC RESONANCE SPECTRUM OF $P(31)N(14)$
J. CHEM. PHYS., 55, 232, 1971
- 265 72 160 READER J EPSTEIN GL EKBERG JO
SPECTRA OF $Rb(III)$, $Sr(III)$, $Y(IV)$, $Zr(V)$, $Nb(VI)$, AND $Mo(VII)$ IN VACUUM ULTRAVIOLET
J. OPT. SOC. AMER., 62, 273, 1972
- 265 72 161 REBELO I SHARMA CS
THEOREM ON HARTREE-FOCK EQUATIONS FOR NSMS (1)S STATES OF HELIUM WITH ORTHOGONAL ORBITALS
J. PHYS., 8, 5, 1286, 1972
- 265 72 162 REINHARDT WP OXTOSY DM RESCIGNO TN
COMPUTATION OF ELASTIC SCATTERING PHASE SHIFTS VIA ANALYTIC CONTINUATION OF FREDHOLM DETERMINANTS
CONSTRUCTED USING AN $L(2)$ BASIS
PHYS. REV. LETT., 28, 401, 1972
- 265 72 163 SALOP A NAKANO HH
TOTAL ELECTRON SCATTERING CROSS SECTIONS IN O_2 AND NE
PHYS. REV., 5A, 2696, 1972
- 265 72 164 SANCHE L SCHULZ GJ
1. NEW RESONANCES IN THE TOTAL CROSS SECTION OF ELECTRONS ON CO AND O_2 . 2. ELECTRON TRANSMISSION SPECTROSCOPY: RARE GASES
PHYS. REV. LETT., 26, 943, 1971 AND PHYS. REV., 5A, 1672, 1972
- 265 72 165 SAXON GP
SECOND ORDER RAYLEIGH-SCHROEDINGER PERTURBATION ENERGY FOR HELIUM AND BERYLLIUM
THESIS, BAYLOR UNIV., WACO, TEXAS, 1971, 104P, UNIV. MICROFILMS ORDER NO. 72-454
- 265 72 166 SCHAFER L YATES AC BONHAM RA
NEW VALUES FOR THE PARTIAL WAVE ELECTRON SCATTERING FACTOR FOR THE ELEMENTS WITH Z OF 1 THROUGH 57 AND 72 THROUGH 90 FOR INCIDENT ELECTRON ENERGIES OF 10, 40, 70, AND 100 KEV
J. CHEM. PHYS., 55, 3055, 1971, NAPS-01419, LIBRARY OF CONGRESS, WASHINGTON, D.C.

- 265 72 167 SCHMIDT M
INDEX OF RADIATIVE LIFETIMES
CEA-BIB-198. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, JUNE 1971. 27P IN FRENCH
- 265 72 168 SCHNEIDER B KRUGLER JI
LOW ENERGY ELECTRON SCATTERING IN THE RANDOM PHASE APPROXIMATION
PHYS. REV., 4A, 1008, 1971
- 265 72 169 SCHWEIG A SCHAFFER W DIMROTH K
UNGEWOHNLICHE SEQUENZ DER BEIDEN OBERSTEN BESETZTEN PI-MOLEKULORBITALE IM PHOSPHORIN SYSTEM. (UNUSUAL SEQUENCE OF TWO HIGHEST OCCUPIED PI-MOLECULAR ORBITALS IN PHOSPHORIN SYSTEM
ANGEW. CHEM., 84, 636, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 631, 1972
- 265 72 170 SEILER GJ
ALGEBRAIC CLOSE COUPLING APPROACH TO ELECTRON-HYDROGEN SCATTERING
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, 1971. 131P. UNIV. MICROFILMS ORDER NO. 71-20,623
- 265 72 171 SHANSHAL M
MINDO-SCF-MO BERECHNUNG DER CIS-TRANS ISOMERISIERUNG VON N-METHYL UND N-PHENYLAZOMETHIN
TETRAHEDRON, 28, 61, 1972
- 265 72 172 SHEOREY VB GERJOY E THOMAS BK
COMPARISONS OF THE GLAUBER AND VAINSHTEIN APPROXIMATIONS FOR INELASTIC ELECTRON-HYDROGEN SCATTERING
J. PHYS., B, 4, NO. 8, L57, 1971
- 265 72 173 SHIMAMURA I
HARRIS METHOD CALCULATIONS OF ELECTRON AND POSITRON SCATTERING BY HYDROGEN LIKE IONS
J. PHYS. SOC. JAPAN, 31, 217, 1971
- 265 72 174 SIMS JS HAGSTROM SA
1. COMBINED CONFIGURATION-INTERACTION-MYLLERAAS TYPE WAVE FUNCTION STUDY OF GROUND STATE OF BERYLLIUM ATOM. 2. ONE CENTER RIJ INTEGRALS OVER SLATER TYPE ORBITALS
PHYS. REV., 4A, 908, 1971 AND J. CHEM. PHYS., 55, 4699, 1971
- 265 72 175 SKERBELE A LASSETTRE EN
1. NEW SELECTION RULE ILLUSTRATED BY COLLISION CROSS SECTION STUDIES ON THE B(1)SIGMA(+)-X(1)SIGMA(+) AND THE C(1)SIGMA(+)-X(1)SIGMA(+) TRANSITIONS IN CARBON MONOXIDE AT KINETIC ENERGIES OF 300, 400, AND 500 EV. 2. ABSOLUTE GENERALIZED OSCILLATOR STRENGTHS FOR THREE TRANSITIONS IN THE MERCURY SPECTRUM
J. CHEM. PHYS., 55, 424, 1971 AND 56, 845, 1972
- 265 72 176 SLEVIN JA VISCONTI PJ RUBIN K
ABSOLUTE ELASTIC AND INELASTIC DIFFERENTIAL CROSS SECTIONS FOR SCATTERING OF LOW ENERGY ELECTRONS BY POTASSIUM
PHYS. REV., 5A, 2065, 1972
- 265 72 177 SPECTOR N
NEW LOW. EVEN LEVELS OF SINGLY IONIZED ERBIUM (ER(II))
ASTROPHYS. J., 167, 205, 1971
- 265 72 178 STAMATOVIC A
SIGNIFICANCE OF THE ENERGY RESOLUTION IN THE EXPERIMENTAL STUDY OF THE ELECTRON-ATOM AND ELECTRON-MOLECULE COLLISIONS
PP. 181-9 OF PHYSICS OF IONIZED GASES, NAVINSEK, B. (ED.), INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, MERCEGNOVI, YUGOSLAVIA, CONF-700706, 41

REFERENCES

- 265 72 179 SUGAR J
NEW ENERGY LEVELS OF TRIPLY IONIZED PRASEODYMIUM
J. OPT. SOC. AMER., 61, 727, 1971
- 265 72 180 SZASZ L MCGINN G
PSEUDOPOTENTIAL THEORY OF ATOMS AND MOLECULES. 2. MYLLERAAS TYPE CORRELATED PAIR FUNCTIONS FOR ATOMS WITH TWO VALENCE ELECTRONS
J. CHEM. PHYS., 56, 1019, 1972
- 265 72 181 TRIPATHI AN MATHUR KC JOSHI SK
ELASTIC SCATTERING OF ELECTRONS FROM LITHIUM
PHYS. LETT., 38A, 159, 1972
- 265 72 182 TRUNLAR DG RICE JK TRAJMAR S CARTWRIGHT DC
IMPORTANCE OF POLARIZATION FOR ELECTRON SCATTERING IN THE INTERMEDIATE ENERGY REGION
CHEM. PHYS. LETT., 9, 299, 1971
- 265 72 183 TRUNLAR DG
1. FORCING CONSERVATION OF PARTICLE FLUX IN PERTURBATION THEORY CALCULATIONS OF INELASTIC SCATTERING. 2. VIBRATIONAL MATRIX ELEMENTS OF QUADRUPOLE MOMENT FUNCTIONS OF H2, N2, AND CO
PHYS. REV., 4A, 1886, 1971 AND INT. J. QUANT. CHEM., 6, 975, 1972
- 265 72 184 TSVEINAN EV REDKIN VS ZASHKVAR VV
SPECTRA OF CHARACTERISTIC ELECTRON ENERGY LOSSES IN GADOLINIUM AND DYSPROSIUM
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 2339, 1972
- 265 72 185 VAN ELERKOM JK
LOW ENERGY ELECTRON SCATTERING BY MAGNESIUM
THESIS, UNIV. OF COLORADO, BOULDER, 1971. 101P. UNIV. MICROFILMS ORDER NO. 71-25,879
- 265 72 186 VAN DEN EYNDE RK BIEBES G NIEMEYER T
MATRIX ELEMENTS OF THE BREIT-PAULI HAMILTONIAN AND SINGLET-TRIPLET MIXING IN THE HELIUM ISOELECTRONIC SEQUENCE
PHYSICA, 59, 401, 1972
- 265 72 187 VAN DYCK RS JOHNSON CE SHUGART HA
RADIATIVE LIFETIME OF 211S(1) METASTABLE STATE OF HELIUM
PHYS. REV., 4A, 1327, 1971
- 265 72 188 VAN KLEEF FM BLAISE J WYART JF
ANALYSIS OF THE ARC SPECTRUM OF GADOLINIUM (GD(II))
J. PHYS. (PARIS), 32, 609, 1971

- 265 72 189 VERHAEGE G BERGER JJ DESCLAUX JP
A PRIORI CALCULATION OF 1S AND 2S HOLE STATES IN NEON
CHEM. PHYS. LETT., 9, 479, 1971.
- 265 72 190 VIERS JW
ELECTRON CORRELATION STUDIES. 1. ELECTRONIC STRUCTURE OF NEON. 2. ELECTRON-HYDROGEN SCATTERING
THESIS. STANFORD UNIV., STANFORD, CALIFORNIA, 1971. 95P. UNIV. MICROFILMS ORDER NO. 71-23,567
- 265 72 191 VO KY LAN
METHOD OF POLARIZED ORBITALS. 1. ELASTIC SCATTERING OF SLOW ELECTRONS BY ALKALI ATOMS
J. PHYS. B, 4, 658, 1971
- 265 72 192 VROOM DA
ENERGY DEPOSITION STUDIES
GULF-RT-A-1084 & ANNUAL REPORT, SEPT. 1970 - SEPT. 1971. GULF RADIATION TECHNOLOGY, SAN DIEGO,
CALIF., SEPT. 1971. 63P
- 265 72 193 WAKIM FG SYNEK M GROSSGUT B DAMONHIO A
EXPECTATION VALUES OF $(R(N))^{(4F)}$ FOR RARE EARTH IONS
PHYS. REV., 5A, 1121, 1972
- 265 72 194 WANG CM MUSULIN B
MOLECULAR SCREENING IN HELIUM MOLECULAR ION
CAN. J. CHEM., 49, 3406, 1971
- 265 72 195 WEISS MJ KUYATT CE MIELCZAREK S
INELASTIC ELECTRON SCATTERING FROM FORMALDEHYDE
J. CHEM. PHYS., 54, 4147, 1971
- 265 72 196 WILLIAMS DR
NORMAL COORDINATE ANALYSIS AND INTENSITY CALCULATIONS FOR $(1)A'$ AND $(1)A''$ ELECTRONIC STATES OF
PROPYNAL
J. CHEM. PHYS., 55, 4578, 1971
- 265 72 197 WOFSY SC MUENTER JS KLEMPERE W
DETERMINATION OF HYPERFINE CONSTANTS AND NUCLEAR SHIELDING IN METHYL FLUORIDE AND COMPARISON WITH
OTHER MOLECULES
J. CHEM. PHYS., 55, 2014, 1971
- 265 72 198 WONG WH MARCUS RA
SEMICLASSICAL TRANSITION PROBABILITIES (S MATRIX) OF VIBRATIONAL-TRANSLATIONAL ENERGY TRANSFER
J. CHEM. PHYS., 55, NO. 12, XXX, 1971
- 265 72 199 YATES AC
MULTIPLE SCATTERING EFFECTS IN HIGH ENERGY ELECTRON-MOLECULE COLLISIONS. 2. POLYATOMIC MOLECULES
J. CHEM. PHYS., 57, 1686, 1972
- 270 72 001 ALLISON AC DALGARNO A
ROTATIONAL EXCITATION OF CN BY ELECTRON IMPACT
ASTRON. ASTROPHYS., 13, 331, 1971
- 270 72 002 ANDRICK D READ FH
ANGULAR DISTRIBUTIONS FOR THE EXCITATION OF VIBRONIC STATES BY RESONANT ELECTRON-MOLECULE REACTIONS
J. PHYS. B, 4, 389, 1971
- 270 72 003 AZRIA R PIQUET-FAYARD F
- WATER EXCITATION BY ELECTRON IMPACT (BETWEEN 3 AND 6 EV)
COMPT. REND., SER. B, 944, 1971 IN FRENCH
- 270 72 004 BEDERSON R
ELECTRON-ATOM EXCITATION WITH SPIN ANALYSIS
COMMENTS AT. MOL. PHYS., 2, NO. 5, 160, 1970-1971
- 270 72 005 BLAHA M
EXCITATION OF $Mg(+)$ BY ELECTRON COLLISIONS
ASTRON. ASTROPHYS., 16, 437, 1972
- 270 72 006 BONHAM RA
SECOND BORN ZERO ANGLE DIFFERENTIAL CROSS SECTION IN HIGH ENERGY LIMIT FOR ELECTRON IMPACT
EXCITATION OF $He\ 2(3)S-1(1)S$ AND $2(3)P-1(1)S$ TRANSITIONS
J. CHEM. PHYS., 57, 1604, 1972
- 270 72 007 BRONGERSMA HH KNOOP FWE BACKX C
TOTAL ELECTRON IMPACT EXCITATION CROSS SECTIONS OF HELIUM
CHEM. PHYS. LETT., 13, 16, 1972
- 270 72 008 CARTWRIGHT DC TRAJMAR S WILLIAMS W HUESTIS DL
1. SELECTION RULE FOR $\Sigma(+) - \Sigma(-)$ TRANSITIONS IN ELECTRON-MOLECULE COLLISIONS. 2. DIFFERENTIAL
AND INTEGRAL CROSS SECTIONS FOR THE ELECTRON IMPACT EXCITATION OF THE $2(1)\Delta(G)$ AND
 $8(1)\Sigma(G)(+)$ STATES OF O_2
PHYS. REV. LETT., 27, 704, 1971 AND AD-729 185, AEROSPACE CORP., LOS ANGELES, CALIF., 1971. NTIS
- 270 72 009 CARTWRIGHT DC RICE J TRUHLAR D TRAJMAR S
DIFFERENTIAL AND INTEGRAL CROSS SECTIONS FOR EXCITATION OF THE $2(1)S$ STATE OF HELIUM BY ELECTRON
IMPACT
AD-736 448, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 270 72 010 CHAPMAN CJ HERZENBE A
DISSOCIATIVE ATTACHMENT AND A RESONANCE NEAR AN EXCITATION THRESHOLD
J. PHYS. B, 5, 790, 1972
- 270 72 011 CHUNG S LIN CC
EXCITATION OF THE ELECTRONIC STATES OF THE NITROGEN MOLECULE BY ELECTRON IMPACT
PHYS. REV., 6A, 988, 1972
- 270 72 012 DALGARNO A LEJEUNE G
ABSORPTION OF ELECTRONS IN ATOMIC OXYGEN
PLANET. SPACE SCI., 19, 1653, 1971

- 270 72 013 DESCLAUX JP MOSER CM VERHAEGE G
RELATIVISTIC ENERGIES OF EXCITED STATES OF ATOMS AND IONS OF SECOND PERIOD
J. PHYS. B, 4, 296, 1971
- 270 72 014 DILLON MA
ELECTRON IMPACT
PP 379-427 OF CREATION AND DETECTION OF THE EXCITED STATE. VOL. I, PT. B, LANDLA, A.A. (ED.), MARCEL
DEKKER INC., NEW YORK, 1971. 100 REFERENCES. AD-742 180, 1971
- 270 72 015 DILY D DESCOUTES JP
APPLICATION OF THE LEVEL-CROSSOVER METHOD TO THE MEASUREMENT OF THE LEVEL STRUCTURE OF THE HE(4) AND
NA(23) ATOMS EXCITED BY ELECTRON BOMBARDMENT
COMPT. REND. SER. B, 272, 1102, 1971 IN FRENCH
- 270 72 016 FAISAL FHM TEMKIN A
APPLICATION OF THE ADIABATIC NUCLEI THEORY TO VIBRATIONAL EXCITATION
PHYS. REV. LETT. 28, 203, 1972
- 270 72 017 FELDEN M
1. CALCULATION OF THE EXCITATION CROSS SECTION 3S-3P OF SODIUM SUBJECTED TO ELECTRON IMPACT. 2.
CALCULATION OF PRIOR AND POST TRANSITION AMPLITUDES IN THE VPS APPROXIMATION FOR ELECTRON
COLLISION EXCITATION (2S-2P) WITH LITHIUM
COMPT. REND. SER. B, 272, 641 AND 701, 1971 IN FRENCH
- 270 72 018 FELDEN MM FELDEN MA
EXCITATION OF LI AND NA ATOMS BY ELECTRON IMPACT USING OCHKUR'S APPROXIMATION
PHYS. LETT. 37A, 88, 1971
- 270 72 019 FINN TG AARTS JF DOERING JP
HIGH ENERGY RESOLUTION STUDIES OF ELECTRON IMPACT OPTICAL EXCITATION FUNCTIONS. 1. SECOND POSITIVE
SYSTEM OF N₂
J. CHEM. PHYS., 56, 5632, 1972
- 270 72 020 FLOWER DR
COLLISION STRENGTHS FOR ELECTRON EXCITATION OF HIGHLY IONIZED COMPLEX ATOMS
J. PHYS. B, 4, 697, 1971
- 270 72 021 GOLDEN DE LANE NF TEMKIN A GERJUDY E
LOW ENERGY ELECTRON-MOLECULE SCATTERING EXPERIMENTS AND THE THEORY OF ROTATIONAL EXCITATION
REV. MOD. PHYS., 43, 642-78, 1971
- 270 72 022 GOLDEN LB SAMPSON DH
ELECTRON IMPACT CROSS SECTIONS AND RATES FOR NL-N'L' TRANSITIONS IN HYDROGENIC IONS AND HYDROGEN
ASTROPHYS. J., 170, 181, 1971
- 270 72 023 HANNE F KESSLER J
MINIMA OF GENERALIZED OSCILLATOR STRENGTHS FOR ELECTRON IMPACT EXCITATION OF 5(1)P₁ AND 6P'(3)P₁
STATES OF Hg
PHYS. REV., 5A, 2457, 1972
- 270 72 024 HARA S
BEHAVIOUR OF POSITRONS IN MOLECULAR GASES. 1. ROTATIONAL EXCITATION OF MOLECULES BY SLOW POSITRONS
J. PHYS. B, 5, 589, 1972
- 270 72 025 HENIEL IV ROST KA
APPLICATION OF THE SECOND BORN APPROXIMATION TO THE 3S-4S EXCITATION OF SODIUM BY ELECTRON IMPACT

J. PHYS. B, 4, 690, 1971
- 270 72 026 HIDALGO MB GELTMAN S
HIGH ENERGY APPROXIMATION. 3. HELIUM EXCITATION BY ELECTRONS
J. PHYS. B, 5, 617, 1972
- 270 72 027 HUGHES BM TIERNAN TO
DETERMINATION OF THE ABUNDANCE OF EXCITED O(+) IONS IN BEAMS PRODUCED BY ELECTRON IMPACT ON O₂, CO₂,
N₂O, NO₂, AND H₂O
J. CHEM. PHYS., 55, 3419, 1971. AD-730 852, 1971. 10P. AD-738 367, 1971.
- 270 72 028 HUGHES RH PETEFISH HM KISNER H
EXCITATION OF H ATOMS TO THE N=3 STATES BY THE IMPACT OF 10 TO 35 KEV GROUND STATE H ATOMS ON HE,
NE, Ar, H₂, O₂, AND N₂
PHYS. REV., 5A, 2103, 1972
- 270 72 029 HYMAN HA
IONIZATION-EXCITATION PROCESSES IN ZINC, CADMIUM, AND MERCURY
J. CHEM. PHYS., 55, 3642, 1971
- 270 72 030 ITIKAWA Y
MOMENTUM TRANSFER CROSS SECTIONS FOR ELECTRON COLLISIONS ON ATOMS AND MOLECULES AND THEIR
APPLICATION TO EFFECTIVE COLLISION FREQUENCIES
ANL-7939, ARGONNE NATIONAL LAB., ILL., APRIL 1972, 32P, 49 REFERENCES
- 270 72 031 JOBE JD SAINT JOHN RM
DISTRIBUTION OF EXCITATION TRANSFER IN HELIUM
PHYS. REV., 5A, 245, 1972
- 270 72 032 KANG IJ CHOI CK
ELECTRON IMPACT EXCITATION OF HELIUM ATOMS TO METASTABLE STATES: BORN-OPPENHEIMER APPROXIMATION
J. KOREAN PHYS. SOC., 4, 1, 1971
- 270 72 033 KARSTENS F KOSTER H
RELATIVE EXCITATION FUNCTIONS FOR ELECTRON IMPACT WITH MAGNESIUM
ASTRON. ASTROPHYS., 13, 116, 1971
- 270 72 034 KILLPATRICK AR
OBSERVATION OF SUPERELASTIC ELECTRON SCATTERING FROM EXCITED MERCURY ATOMS
THESIS, BRIGHAM YOUNG UNIV., PROVO, UTAH, 1970. 58P. UNIV. MICROFILMS ORDER NO. 71-8853
- 270 72 035 KISKER E
HIGH RESOLUTION MEASUREMENT OF OPTICAL EXCITATION FUNCTIONS OF HELIUM AND NEON
PHYS. LETT. 38A, 79, 1972

- 270 72 036 KNOOP FWE BRONGERSMA HH OOSTERHOFF LJ
TRIPLET EXCITATION OF WATER AND METHANOL BY LOW ENERGY ELECTRON IMPACT SPECTROSCOPY
CHEM. PHYS. LETT. 13, 20, 1972
- 270 72 037 KOPPE VT KOVAL AG DANILEVS NP
MEASUREMENT OF EFFECTIVE CROSS SECTIONS FOR EXCITATION OF BANDS IN VISIBLE RANGE OF SPECTRUM OF CO
MOLECULES AND CO(+) IONS BY 0.4-20 KEV ELECTRONS
SOV. PHYS. JETP (ENGL. TRANS.); 34, 481, 1972. TRANSLATED FROM ZH. EKSP. TEOR. FIZ., 61, 906, 1971
- 270 72 038 KULANDER KC DAHLER JS
DOUBLE EXCITATION OF ATOMS BY ELECTRON IMPACT
PHYS. REV. 181, 1436, 1972
- 270 72 039 LEVINE RD BERNSTEIN RB
POST-THRESHOLD ENERGY DEPENDENCE OF THE CROSS SECTION FOR ENDOTHERMIC PROCESSES: VIBRATIONAL
EXCITATION AND REACTIVE SCATTERING
J. CHEM. PHYS., 56, 2281, 1972
- 270 72 040 LLOYD CR TEUBNER PJ WEIGOLD E
EXCITATION OF FIRST EXCITED STATE IN ARGON BY ELECTRON BOMBARDMENT
J. PHYS. B, 5, NO. 2, L44, 1972
- 270 72 041 MACKAY GI MARCH RE
COLLISIONAL DEACTIVATION RATES OF ELECTRONICALLY EXCITED MOLECULAR IONS. 2.
CAN. J. CHEM., 50, 1, 1972
- 270 72 042 MATHUR KC TRIPATHI AN JOSHI SK
EXCITATION OF LITHIUM BY ELECTRON IMPACT USING THE GLAUBER THEORY
PHYS. REV., 5A, 746, 1972
- 270 72 043 MCCAVERT P RUDGE MR
ON CROSS SECTIONS FOR EXCITATION OF ALKALIS, LI, NA, AND K BY ELECTRON IMPACT
J. PHYS. B, 5, 808, 1972
- 270 72 044 MCCONKEY JW WOOLSEY JM BURNS DJ
ABSOLUTE CROSS SECTION FOR ELECTRON IMPACT EXCITATION OF 3914-A N2(+) π
PLANET. SPACE SCI., 19, 1192, 1971
- 270 72 045 MCLEAN EA ALI AW STAMPER JA
ON ELECTRON IMPACT EXCITATION OF O-O BAND N2(+) 3914-A
PHYS. LETT. 38A, 209, 1972
- 270 72 046 MENTALL JE MORGAN HD
VACUUM ULTRAVIOLET EXCITATION CROSS SECTIONS BY ELECTRON IMPACT ON NO
J. CHEM. PHYS., 56, 2271, 1972
- 270 72 047 MEWE R
INTERPOLATION FORMULAE FOR THE ELECTRON IMPACT EXCITATION OF IONS IN THE H, HE, LI, AND NE SEQUENCES
ASTRON. ASTROPHYS., 20, 215, 1972
- 270 72 048 MILLER KJ
ELECTRON SCATTERING OFF ATOMS FOR EXCITATIONS TO VALENCE AND RYDBERG STATES
INT. J. QUANT. CHEM., SYMP., NO. 5, 71-81, 1971. FROM INTERNATIONAL SYMPOSIUM ON ATOMIC, MOLECULAR,
AND SOLID STATE THEORY AND QUANTUM BIOLOGY, SANIBEL ISLAND, FLA., JAN. 16, 1971
- 270 72 049 MUMMA MJ ZIPF EC BORST WL
- DISSOCIATIVE EXCITATION OF VACUUM ULTRAVIOLET EMISSION FEATURES BY ELECTRON IMPACT ON MOLECULAR
GASES. 1. N2 AND O2. 2. N2. 3. CO2
1. J. CHEM. PHYS., 55, 1661, 1971. AD-729 748 AND NT1-34672, 1971. 2. J. CHEM. PHYS., 55, 5682,
1971. AD-736 008, 1971. 3. N2-19758, N2-21676, AD-747 941, NASA-CR-125800, AND SRCC-162.
PITTSBURGH UNIV., PENNSYLVANIA, DEPT. OF PHYSICS, JAN. 1972, 37P
- 270 72 050 NEWTON AS THOMAS GE
ELECTRON IMPACT EXCITATION FUNCTIONS OF RADIATING AND METASTABLE STATES OF CARBON MONOXIDE
CHEM. PHYS. LETT., 11, 171, 1971
- 270 72 051 PAVLOVIC Z BONESS MJW HERZENBERG A SCHULZ GJ
VIBRATIONAL EXCITATION IN N2 BY ELECTRON IMPACT IN THE 15 TO 25 EV REGION
PHYS. REV., 181A, 676, 1972
- 270 72 052 PETRINI D
ELECTRON EXCITATION FOR THE 2S-NF TRANSITIONS IN LITHIUM LIKE IONS
ASTRON. ASTROPHYS., 17, 410, 1972
- 270 72 053 REINHARDT J HALL RI JOYEZ G MAZEAU J
RESONANCE PHENOMENA IN THE LOW ENERGY ELECTRON IMPACT EXCITATION OF HELIUM BY A TRAPPED ELECTRON
METHOD
J. PHYS. B, 4, NO. 8, L61, 1971.
- 270 72 054 RICE JK TRUHLAR DG CARTWRIGHT DC TRAJMAR S
EFFECT OF CHARGE POLARIZATION ON INELASTIC SCATTERING: DIFFERENTIAL AND INTEGRAL CROSS SECTIONS FOR
EXCITATION OF THE 2(1)S STATE OF HELIUM BY ELECTRON IMPACT
PHYS. REV., 5A, 762, 1972. SC-RR-710474, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, AUG. 1971, 114P
- 270 72 055 SAMEDOVA TG KARPACHE GP DAVYDOV BE
STUDY OF TRANSFER PROCESSES OF ELECTRONIC EXCITATION ENERGY IN POLYMERS WITH CONJUGATED DOUBLE BOND
SYSTEM
EUR. POLYM. J., 8, 599, 1972
- 270 72 056 SAVCHENKO VN
CALCULATION OF EFFECTIVE CROSS SECTIONS FOR ELECTRON COLLISION EXCITATION OF THE FINE STRUCTURE
COMPONENTS (1)P(1) AND (3)P(0,1,2) OF MERCURY, CADMIUM, AND ZINC ATOMS
OPT. SPECTROSC. USSR (ENGL. TRANS.), 30, 6, 1971. TRANSLATED FROM OPT. SPEKTROSK., 30, 12, 1971
- 270 72 057 SHOWALTER JG
MEASUREMENT OF ELECTRON IMPACT EXCITATION FUNCTIONS FOR SINGLET AND TRIPLET LEVELS IN HELIUM
THESIS, AMERICAN UNIV., WASHINGTON, D.C., 1971, 137P. UNIV. MICROFILMS ORDER NO. 72-9172
- 270 72 058 STONE EJ
EXPERIMENTAL CROSS SECTIONS FOR ELECTRON IMPACT EXCITATION OF ATOMIC OXYGEN AND NITROGEN
THESIS, UNIV. OF PITTSBURGH, PENNSYLVANIA, 1971, 109P. UNIV. MICROFILMS ORDER NO. 72-2145

- 270 72 059 STONE EJ ZIPF EC
1. EXCITATION OF O (3)S AND N (4)P RESONANCE STATES BY ELECTRON IMPACT ON O AND N. 2. ELECTRON IMPACT EXCITATION OF NO
1. PHYS. REV., 4A, 610, 1971. AD-728 553, 1971. 2. J. CHEM. PHYS., 56, 2870, 1972. N72-15647 AND AD-742 536, 1971
- 270 72 060 SUCKEWER S
SPECTROANALYSIS AND POPULATIONS OF EXCITED LEVELS
INR-P-1298. INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND, 1971. 32P. NTIS
- 270 72 061 TRAJMAR S CARTWRIGHT DC WILLIAMS W KUPPERMANN A
1. DIFFERENTIAL AND INTEGRAL CROSS SECTIONS FOR THE ELECTRON IMPACT EXCITATION OF THE A(1)DELTA(G) AND B(1)SIGMA(G)(+) STATES OF O2. 2. ANGULAR DEPENDENCE OF ELECTRON IMPACT EXCITATION CROSS SECTIONS OF O2
PHYS. REV., 4A, NO. 4, 1482, OCT. 1971 AND J. CHEM. PHYS., 56, 3759, 1972
- 270 72 062 TRIPATHI AN MATHUR KC JOSHI SK
ELECTRON IMPACT EXCITATION OF LITHIUM
PHYS. REV., 4A, 1873, 1971
- 270 72 063 VAN DER WIEL MJ
EXCITATION OF INNER SHELL ELECTRONS BY PHOTONS AND FAST ELECTRONS
PP 140-53 OF PHYSICS OF ELECTRONIC AND ATOMIC COLLISIONS, VII ICPEAC, 1971. NORTH-HOLLAND PUBLISHING CO., AMSTERDAM, 1972. 30 REFERENCES
- 270 72 064 VAN RAAN AFJ DE JONGH JP VAN ECK J HEIDEMAN HGM
ABSOLUTE CROSS SECTIONS FOR EXCITATION OF HELIUM BY ELECTRONS (20 TO 2000 EV) AND THE POLARIZATION OF THE EMITTED RADIATION
PHYSICA, 53, 45, 1971
- 270 72 065 WELLS WC ZIPF EC BORST W
EXCITATION OF THE METASTABLE E(3)SIGMA(G)(+) STATE OF N2 BY ELECTRON IMPACT
AD-746 421. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 270 72 066 WILSON KH
PHOTOFRAGMENT CF SPECTROSCOPY OF DISSOCIATIVE EXCITED STATES
AD 702 861. CALIFORNIA UNIV., RIVERSIDE. 80P
- 270 72 067 WINICUR DH KNUTH EL
METHOD FOR THE MEASUREMENT OF THE ELECTRON IMPACT EXCITATION CROSS SECTION OF ARGON
CHEM. PHYS. LETT., 12, 261, 1971
- 270 72 068 WONG WH MARCUS RA
CONCEPT OF MINIMUM STATE DENSITY IN ACTIVATED COMPLEX THEORY OF BIMOLECULAR REACTIONS
J. CHEM. PHYS., 55, NO. 12, XXX, 1971
- 270 72 069 YATES AC TENNEY A
GLAUBER CROSS SECTIONS FOR EXCITATION OF THE 2(1)S STATE OF HELIUM BY ELECTRON IMPACT
PHYS. REV., 6A, 1451, 1972
- 270 72 070 ZON BA MANAKOV NL RAPOPORT LP
MULTIPHOTON EXCITATION OF ATOMS
ZH. EKSP. TEOR. FIZ., 60, 1264, 1971 IN RUSSIAN
- 275 72 001 ALEKSANKIN MM
- FRAGMENTATION AND REARRANGEMENT OF ESTER IONS IN A FIELD MASS SPECTROMETER
TEOR. EKSP. KHIM., 8, 490, 1972 IN RUSSIAN
- 275 72 002 ARATANI M
DESIGN OF MULTIBLADED FIELD ION EMITTER FOR MOLECULAR WEIGHT DETERMINATIONS
MASS SPECTRY, JAPAN, 19, 81, 1971 IN ENGLISH
- 275 72 003 BECKER KA
FELDIONISATION UND MASSENSPEKTROMETRIE VERDAMPFENDEN ARSENODIOXID-MODIFIKATIONEN
BER. BUNSENES. PHYS. CHEM., 75, 406, 1971
- 275 72 004 BECKEY HD
FIELD IONIZATION MASS SPECTROMETRY
BOOK, INTERNATIONAL SERIES OF MONOGRAPHS IN ANALYTICAL CHEMISTRY, VOLUME 42, PERGAMON PRESS LTD., OXFORD, 1971. 360P
- 275 72 005 BECKEY HD HEINDRIC A HILT E
AKTIVIERUNG VON FELDIONODEN FUR DIE FELDIONISATIONS MASSENSPEKTROMETRIE
MESSSTECHNIK, 79, NO. 9, S.196, 1971
- 275 72 006 BECKEY HD MIGAHEU MD
1. ZWEISTUFIGE METASTABILE ZERFALLSPROZESSE IN FELDIONISATIONS MASSENSPEKTREN. 2. UBER DIE BILDUNG VON MOLEKULKOMPLEXEN BEI DER FELDIONISATION ORGANISCHER MOLEKULE
Z. NATURFORSCH., 26A, 1243 AND 2063, 1971
- 275 72 007 BECKEY HD BLOCHING S MIGAHEU MD
OPTIMUM PARAMETERS FOR FIELD ION EMITTERS IN MASS SPECTROMETERS
J. MASS SPECTRY, ION PHYS., 8, 169, 1972
- 275 72 008 BECKEY HD ROLLGEN FW
SURFACE STUDIES BY FIELD IONIZATION MASS SPECTROMETRY
J. VAC. SCI. TECHNOL., 9, 471, 1972
- 275 72 009 BOWKETT KM SMITH DA
FIELD ION MICROSCOPY
NATURWISSENSCHAFTEN, 59, 43, 1972
- 275 72 010 DEVTATSKH GG
FIELD MASS SPECTRA OF VOLATILE INORGANIC HYDRIDES
ZH. NEORG. KHIM., 16, 3187, 1971 IN RUSSIAN
- 275 72 011 GUTSHALL PI BRYANT PJ
MASS SPECTRA GENERATED BY A GRAPHITE FIELD IONIZER
J. VAC. SCI. TECHNOL., 9, 498, 1972

- 275 72 012 HINDENACH P BLOCK J
MECHANISM OF DEUTERIUM EXCHANGE WITH NEOPENTANE: STUDIES IN THE FIELD ION MASS SPECTROMETER
BER. BUNSEN. PHYS. CHEM., 75, 993, 1971 IN GERMAN
- 275 72 013 HIPPE KG BECKAY H
QUANTITATIVE GROUP ANALYSIS OF HYDROCARBON MIXTURES SIMILAR TO GASOLINE WITH FIELD ION MASS
SPECTROMETER
ERDOEL KÖHLE, ERGAS, PETROCHEM., 24, 620, 1971
- 275 72 014 HUMMEL DO DUSSEL HJ RUBENACK K
MASS SPECTROMETRY OF POLYMERS AND COPOLYMERS USING FIELD EMISSION AND ELECTRON IMPACT ION SOURCES.
1. ADVANCES IN TECHNIQUE OF PYROLYSIS FIELD EMISSION MASS SPECTROMETRY. 2. POLYISOBUTENE,
POLYSTYRENE, POLYPROPENE, POLY(STYRENE PEROXIDE), AND POLYVINYL CHLORIDE
MAKROMOL. CHEM., 145, 259 AND 267, 1971
- 275 72 015 LEVSEN K BECKEY HD
STUDY OF REARRANGEMENT REACTIONS BY FIELD IONIZATION MASS SPECTROMETRY. 1. THEORETICAL ASPECTS. 2.
TEMPERATURE DEPENDENCE. 3. EXPERIMENTAL RESULTS FOR DIFFERENT TYPES OF REACTIONS
J. MASS SPECTRY. ION PHYS., 7, 341, 1971 AND 9, 51 AND 63, 1972
- 275 72 016 ROHWEDDER WK
FIELD IONIZATION MASS SPECTROMETRY OF LONG CHAIN FATTY METHYL ESTERS
LIPIDS, 6, 906, 1971
- 275 72 017 ROLLGEN FW BECKEY HD
ZUR KOMBINATION EINER FELDIMPULSDESORPTIONS IONENQUELLE MIT EINEM MASSENSPEKTROMETER
MESSTECHNIK, 80, 115, 1972
- 275 72 018 SCHMIDT WA FRANK O BLOCK JH
EINFLUSSE DER GASADSORPTION AUF DIE FELDIONISATION AN EISEN UND PLATINBERFLÄCHEN
BER. BUNSEN. PHYS. CHEM., 75, 1240, 1971
- 275 72 019 SUVOROV AL TREBUKHOVSKII VV
MASS ANALYSIS IN FIELD ION MICROSCOPY
USP. FIZ. NAUK, 107, 657, 1972 IN RUSSIAN
- 275 72 020 VINEY BW
DETERMINATION OF LIFETIMES OF METASTABLE IONS BY FIELD IONIZATION MASS SPECTROMETRY
J. MASS SPECTRY. ION PHYS., 8, 417, 1972
- 275 72 021 WANLESS GG
FIELD IONIZATION MASS SPECTROMETRY USING A SCINTILLATION DETECTOR
J. MASS SPECTRY. ION PHYS., 10, 85, 1972
- 275 72 022 WINKLER HU BECKEY HD
FIELD DESORPTION MASS SPECTROMETRY OF PEPTIDES
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 391, 1972
- 275 72 023 WROKOWSK CJ CZYZEWSK JJ
FIELD EMISSION SPECTROMETER WITH AN ELECTRON MULTIPLIER OPERATING PHASE SENSITIVE DETECTION SYSTEM
ACTA PHYS. POLONICA, 39A, 523, 1971
- 285 72 001 ADAMS GE ALDRICH JE BISBY RH
SELECTIVE FREE RADICAL REACTIONS WITH PROTEINS AND ENZYMES: REACTIONS OF INORGANIC RADICAL ANIONS
WITH AMINO ACIDS
RADIAT. RES., 49, NO. 2, 278, 1972
- 285 72 002 ANDERSSON BA FOLSCH G
MASS SPECTRA OF SOME PYRROLINE NITROXIDE FREE RADICALS
ARK. KEMI, 2, NO. 1, 21, 1972
- 285 72 003 ARTHUR NL MCDONELL JA
BEO CALCULATIONS. 1. ACTIVATION ENERGIES AND KINETIC ISOTOPE EFFECTS FOR THE REACTIONS OF CH₃ AND
CF₃ RADICALS WITH HCL AND H₂S
J. CHEM. PHYS., 56, 3100, 1972
- 285 72 004 ASHTON DS TEDDER JM
FREE RADICAL SUBSTITUTION IN ALIPHATIC COMPOUNDS. 25. GAS PHASE CHLORINATION OF CHLOROCYCLOBUTANE
AND MCTINLCYCLOBUTANE
J. CHEM. SOC., PERKIN TRANS. II, P965, 1972
- 285 72 005 ATKINSON DJ
REACTIONS OF ARYLCYCLOHEXADIENYL RADICALS: REARRANGEMENT VS FRAGMENTATION
J. CHEM. SOC. C, P3240, 1971
- 285 72 006 BROKENSHIRE JL
DI-TERT-BUTYLIMINOXY, A FREE RADICAL OF MODERATE STABILITY
JACS, 93, 5278, 1971
- 285 72 007 CHERVONENKO VS ROGINSKII VA PSHEZHETSKII SY
PHOTOCHEMISTRY OF FREE RADICALS. RADICALS OF ALCOHOLS AND ETHERS
KHIM. VYS. ENERG., 4, NO. 5, 450, 1970 IN RUSSIAN (SUMMARY) FULL COPY HELD BY DTIC OAK RIDGE
NATIONAL LAB., TENN.
- 285 72 008 DEPUY CH
CYCLOPROPANOLS. 9. CYCLOPROPOXY RADICALS FROM CYCLOPROPYL NITRITES
JACS, 94, 3924, 1972
- 285 72 009 FEINSTEI AI FIELDS EK
NOVEL INTRAMOLECULAR FREE RADICAL CYCLIZATION IN VAPOR PHASE AYLATION OF METHYL BENZOATE
J. ORG. CHEM., 37, 118, 1972
- 285 72 010 FOLLMER DW TOBY S PRITCHARD GO
REACTION OF TRIFLUOROMETHYL RADICALS WITH HEXAFLUOROACETONE IMINE
J. PHYS. CHEM., 76, 487, 1972
- 285 72 011 GREGORY R
ADDITION OF FREE RADICALS TO UNSATURATED SYSTEMS. 19. THE DIRECTION OF RADICAL ADDITION TO 1,1,1-
TRIFLUOROBUT-2-ENE
J. CHEM. SOC. C, P1216, 1971

- 285 72 012 GULICK WM
STERIC EFFECTS ON PHOSPHORUS HYPERFINE COUPLING CONSTANTS IN NITROAROMATIC ANION RADICALS
JACS. 94. 29. 1972
- 285 72 013 HARDWIG E RABINOVI BS IRETON R
A TEST OF RRKM THEORY. RATES OF DECOMPOSITION IN THE SERIES OF 2-N-ALKYL RADICALS FROM C4 THROUGH C16
AD-746 835. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1972
- 285 72 014 HAUTECLOQUE S
REACTIONS OF CCL3 RADICALS WITH C2H6 AND C2D6. ISOTOPE EFFECT
COMPT. REND.. SER. C. 272. 2094. 1971 IN FRENCH
- 285 72 015 HERRON JT
MASS SPECTROMETRIC STUDIES OF ATOMIC AND FREE RADICAL REACTIONS
COM-72-S0153. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. SP
- 285 72 016 HOSOGA T
ABNORMAL ADDITION OF FREE RADICALS TO STERICALLY HINDERED NITROSOBENZENES
J. CHEM. SOC. C. P3399. 1971
- 285 72 017 HYISTENDAH G UNDEHEIM K
MASS SPECTROMETRY OF ONIUM COMPOUNDS. 12. RADICAL FORMATION IN EVAPORATION OF CINNOLINIUM CATION
TETRAHEDRON. 28. 1737. 1972
- 285 72 018 ITOM M
PYRIDINYL HETERODIRADICALS. INTRAMOLECULAR INTERACTION BETWEEN TWO DIFFERENT PYRIDINYL RADICALS
JACS. 94. 1034. 1972
- 285 72 019 IZOD TP KISTIAKO GB MATSUDA S
REACTIONS OF ETHYL RADICALS PRODUCED IN PYROLYSIS OF AZOETHANE IN REFLECTED SHOCK WAVES
J. CHEM. PHYS. 56. 1337. 1972
- 285 72 020 JAKUBOWSKI E
UNIMOLECULAR ISOMERIZATION OF CHEMICALLY ACTIVATED METHYLCYCLOPROPANE FORMED BY CYCLOPROPYL PLUS
METHYL RADICAL COMBINATION
JACS. 93. 6010. 1971
- 285 72 021 JONES ITN BAYES KD
DETECTION OF STEADY STATE FREE RADICAL CONCENTRATIONS BY PHOTOCATIONIZATION
JACS. 94. 6869. 1972
- 285 72 022 KANICK SW LINDER RE LING AC
STRUCTURE OF RADICALS PRODUCED BY GAMMA RADIOLYSIS. 1. 3-METHYLPENTYL, 2-METHYLPENTYL, AND ISOPENTYL
RADICALS
J. CHEM. SOC. A. P2971. 1971
- 285 72 023 KARL CL
ACYL REARRANGEMENTS IN RADICAL REACTIONS
J. ORG. CHEM.. 37. 2834. 1972
- 285 72 024 KATZ MG HOROWITZ A RAJBENBACH LA
RADIATION INDUCED DECHLORINATION OF PENTACHLOROETHANE AND SYM-TETRACHLOROETHANE. REACTIONS OF 1,1,2,2-TETRACHLOROETHYL AND 1,2,2-TRICHLOROETHYL RADICALS
TRANS. FARADAY SOC.. 67. 2354. 1971
- 285 72 025 KOBRINSKY PC PRITCHARD GO TOBY S
PRESSURE DEPENDENCE OF CROSS COMBINATION RATIO FOR CF3 AND CH3 RADICALS
J. PHYS. CHEM.. 75. 2225. 1971
- 285 72 026 LEWIS SN
1,2 MIGRATIONS IN ALKYL RADICALS
J. ORG. CHEM.. 37. 1478. 1972
- 285 72 027 LOFFLER HP
RADIKALISCHE UMLAGERUNGEN IN EINIGEN BICYCLISCHEN SYSTEMEN
CHEM. BER.. 104. 1081. 1971
- 285 72 028 MARZ R MAUCLAIRE G WALLART M
RADICALS FORMED IN THE GASEOUS PHASE BY THE IMPACT OF LOW ENERGY ELECTRONS ON HYDROCARBONS
J. CHIM. PHYS. 68. 1680. 1971 IN FRENCH
- 285 72 029 MCFADDEN DL MCCULLOUGH EA KALOS F
MOLECULAR BEAM STUDY OF POLYATOMIC FREE RADICAL REACTIONS. CH2 + CL2 AND BR2
CAN. J. PHYS. 57. 1361. 1972
- 285 72 030 MINISCI F
NUCLEOPHILIC CHARACTER OF ALKYL RADICALS. 7. SUBSTITUENT EFFECTS ON THE HOMOLYTIC ALKYLATION OF
PROTONATED HETEROAROMATIC BASES WITH METHYL, PRIMARY, SECONDARY, AND TERTIARY ALKYL RADICALS. 8.
KINETICS AND MECHANISM OF INDUCED DECOMPOSITION OF DECANOYL PEROXIDE IN THE HOMOLYTIC ALKYLATION
OF PROTONATED QUINOLINE
TETRAHEDRON. 28. 2403 AND 2415. 1972
- 285 72 031 MONTAGUE DC ROWLAND FS
OXIRONE INTERMEDIATE IN THE REACTION OF SINGLET METHYLENE WITH CARBON MONOXIDE
JACS. 93. 5381. 1971
- 285 72 032 MORRIS ED NIKI M
1. MASS SPECTROMETRIC STUDY OF THE REACTION OF HYDROXYL RADICAL WITH FORMALDEHYDE. 2. MASS
SPECTROMETRIC STUDY OF THE REACTIONS OF THE HYDROXYL RADICAL WITH ETHYLENE, PROPYLENE, AND
ACETALDEHYDE IN A DISCHARGE-FLOW SYSTEM
J. CHEM. PHYS. 55. 1991. 1971 AND JACS. 93. 3570. 1971
- 285 72 033 PEETERS J LAMBERT JF HERTOGHE P TIGGELEN A
MECHANISMS OF C2* AND CH* FORMATION IN A HYDROGEN-OXYGEN FLAME CONTAINING HYDROCARBON TRACES
AD-736 689. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971

- 285 72 034 PRYOR WA KNEIPP KG
PRIMARY KINETIC ISOTOPE EFFECTS AND THE NATURE OF HYDROGEN TRANSFER TRANSITION STATES. THE REACTION OF A SERIES OF FREE RADICALS WITH THIOLS
JACS. 93. 5584. 1971
- 285 72 035 RABINOVITZ BS LARSON CW CHUA PT
IDENTITY SCRAMBLING AND ISOMERIZATION NETWORKS IN SYSTEMS OF EXCITED ALKYL RADICALS
AD-740 138. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1972
- 285 72 036 RAERDON JD
THE KINETICS AND MECHANISM OF THE GAS PHASE REACTION OF TRIFLUOROMETHYL RADICALS WITH ACETONE USING MASS SPECTRAL ANALYSIS
THESIS. UNIV. OF CONNECTICUT, STORRS. 1971. UNIV. MICROFILMS ORDER NO. 71-18.435. DISS. ABS. 328. 1. 213. 1971
- 285 72 037 RIEKE PD MOORE NA
THE CYCLIC ADDITION OF HETERORADICALS. 2. CYCLIC ADDITIONS OF ALKOXY RADICALS IN ALKENES
J. ORG. CHEM. 37. 413. 1972
- 285 72 038 SAKURAI H HOSONO A
SILYL RADICALS. 8. DIRECTIVE EFFECT AND RELATIVE REACTIVITIES OF THE PENTAMETHYLDISILANYL RADICAL IN HOMOLYTIC AROMATIC Silylation
JACS. 93. 1709. 1971
- 285 72 039 SERGEEV YL AKOPYAN ME VILESOV FI
PHOTOIONIZATION OF PHENYL RADICAL
OPT. SPEKTROSK. 32. 230. 1972 IN RUSSIAN
- 285 72 040 SHANSHAL M
CONFIGURATION OF BENZYL RADICAL
MOL. PHYS. 23. 441. 1972
- 285 72 041 SHAPIRO JS WESTON RE
KINETIC ISOTOPE EFFECTS IN THE REACTION OF METHYL RADICALS WITH MOLECULAR HYDROGEN
J. PHYS. CHEM. 76. 1669. 1972
- 285 72 042 SHIMIZU N NISHIDA S
REACTIONS OF CARBENE WITH 1,1-DICYCLOPROPYLETHYLENE. NEW TOOL TO INVESTIGATE RADICAL CYCLOADDITIONS
J. CHEM. SOC., CHEM. COMMUN. 9389. 1972
- 285 72 043 SIMONYI M TUEDES F POSPISIL J HOLLY S
ISOTOPE EFFECTS IN RADICAL REACTIONS OF PHENOL INHIBITORS
PP 125-7 OF KINETICS AND MECHANISM OF POLYREACTIONS. VOL. III. AKADEMIAI KIADO, BUDAPEST, 1969. FROM INTERNATIONAL SYMPOSIUM ON MACROMOLECULAR CHEMISTRY. BUDAPEST, HUNGARY, AUG. 25. 1969. CONF-690843(VOL.3)
- 285 72 044 TABUSHI I
FREE RADICAL HALOGENATION OF ADAMANTANE. SELECTIVITY AND RELATIVE LIFETIMES OF 1- AND 2-ADAMANTYL RADICALS
JACS. 94. 1177. 1972
- 285 72 045 TAN HS LAMPE FW
THE REACTION OF ETHYL RADICALS WITH NITRIC OXIDE. NITROSOETHANE AND TRIETHYLHYDROXYLAMINE FORMATION
J. PHYS. CHEM. 76. 3303. 1972
- 285 72 046 TODA T MORIMURA S MURAYAMA K
STUDIES ON STABLE FREE RADICALS. 7. MECHANISM FOR CYCLIZATION REACTION OF ALPHA AMINO NITRILES WITH CARBONYL COMPOUNDS
BULL. CHEM. SOC. JAPAN. 45. 557. 1972
- 285 72 047 ULLMAN EF
STUDIES OF STABLE FREE RADICALS. 10. NITRONYL NITROXIDE MONORADICALS AND BIRADICALS AS POSSIBLE SMALL MOLECULE SPIN LABELS
JACS. 94. 7049. 1972
- 285 72 048 WALBORSKY HM CHEN JC
CYCLOPROPANES. 28. THE REARRANGEMENT AND REACTIVITY OF THE 1-METHYL-2,2-DIPHENYLCYCLOPROPYL RADICAL
JACS. 92. 7573. 1970
- 285 72 049 WEBB PG KAMPMEIER JA
VINYL RADICALS. 5. RELATIVE REACTIVITY OF 2-METHYLPROPENYL RADICAL
JACS. 93. 3730. 1971
- 285 72 050 WEDEGAERTNER OK
VINYL RADICALS. 7. STEREOCHEMISTRY OF THE FREE RADICAL ADDITION OF ETHYL MERCAPTAN TO ETHOXYACETYLENE. A 1-ALKOXYVINYL RADICAL
JACS. 93. 6890. 1971
- 285 72 051 WILLIAMS TF
RESEARCH CONCERNING IONIC AND FREE RADICAL REACTIONS IN RADIATION CHEMISTRY
ORO-2968-68. PROGRESS REPORT, SEPT. 1970 - SEPT. 1971. TENNESSEE UNIV., KNOXVILLE. DEPT. OF CHEMISTRY. 14P
- 285 72 052 WU CH
KINETIC STUDY OF CLO FREE RADICAL AT LOW PRESSURE IN THE CL2 + O2 SYSTEM
THESIS. UNIV. OF CALIFORNIA, BERKELEY. UNIV. MICROFILMS ORDER NO. 71-869. DISS. ABS. 318. 7. 3970. 1971
- 285 72 053 WYATT JR STAFFORD FE
MASS SPECTROMETRIC DETERMINATION OF THE HEAT OF FORMATION OF ETHYNYL RADICAL, C2H, AND OF SOME RELATED SPECIES
J. PHYS. CHEM. 76. 1913. 1972
- 290 72 001 ACHENBACH H
ZUR GASCHROMATOGRAPHISCHEN TRENNUNG DER KAWA-LACTONE. (+)-5,6,7,8-TETRAHYDROXYANGONIN, EIN NEUES KAWA-LACTON AUS RAUSCHPFEFFER
CHEM. BER. 104. 2688. 1971

- 290 72 002 ACKMAN RG COX RE EGLINTON G
STEREOCHEMICAL STUDIES OF ACYCLIC ISOPRENOID COMPOUNDS. 1. GAS CHROMATOGRAPHIC ANALYSIS OF
STEREISOMERS OF A SERIES OF STANDARD ACYCLIC ISOPRENOID ACIDS
J. CHROMATOGR. SCI., 10, NO. 6, 992, 1972
- 290 72 003 ADAM H
KLEINE MASSENSPEKTROMETER ALS FLEXIBLE SUBSTANZSPEZIFISCHE DETEKTOREN FÜR GASCHROMATOGRAPHIE
DIFFERENZTHERMOANALYSE UND THERMOGRAVIMETRIE
MESSTECHNIK, 78, NO. 11, 215, 1970
- 290 72 004 ADLERCRE H KERSTELL J SCHAUMAN K
PLASMA LIPIDS AND STEROID HORMONES IN PATIENTS WITH HYPERCHOLESTEROLAEMIA OR HYPERLIPIDAEIA DURING
CEHYDROPIANDROSTERONE SULPHATE ADMINISTRATION
EUR. J. CLIN. INVEST., 2, NO. 2, 91, 1972
- 290 72 005 ALBONE ES EGLINTON G EVANS NC RHEAD M
1. FATE OF DDT IN SEVERN ESTUARY SEDIMENTS. 2. FORMATION OF BIS(P-CHLOROPHENYL)ACETONITRILE (P,P'-
DDCN) FROM P,P'-DDT IN ANAEROBIC SEWAGE SLUDGE
ENVIRON. SCI. TECHNOL., 6, 914, 1972 AND NATURE, 240, 420, 1972
- 290 72 006 ALEKSAND AN RABINOV AS SKOP SL
COMBINATION OF A CHROMATOGRAPH WITH A MASS SPECTROMETER
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 198, 1971
- 290 72 007 ALEXANDER M DUXBURY J FRANCIS A ADAMSON J
DETECTION OF SCIL MICROORGANISMS IN SITU BY COMBINED GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
N73-13134, CORNELL UNIV., ITHACA, NEW YORK, AUG. 1972, 28P
- 290 72 008 ALHADEFF JA DAVES GD
OCCURRENCE OF 2-AMINOETHYLPHOSPHONIC ACID IN HUMAN BRAIN
BIOCHEM., 9, 4866, 1970
- 290 72 009 ANGGARD E
CHROMATOGRAPHY OF BIOGENIC AMINE METABOLITES AND RELATED COMPOUNDS ON LIPOPHILIC SEPHADEX. 2. THE
CATECHOLAMINES AND THEIR 2-O-METHYLATED DERIVATIVES
J. CHROMATOGR., 52, 87, 1970
- 290 72 010 ANVAER BI URUUUV IS
GAS CHROMATOGRAPHY IN THE ANALYSIS OF INORGANIC SUBSTANCES (A REVIEW, 1963 - 1970)
ZH. ANAL. KHIM., 26, 1180, 1971 IN RUSSIAN
- 290 72 011 ARAKI S
GAS CHROMATOGRAPHY OF REACTIVE INORGANIC GASES
AD-838 808, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1965
- 290 72 012 ARAKI S SUZUKI S KITANO M
PHOTOLYSIS-GAS CHROMATOGRAPHIC ANALYSIS OF PLASTICIZERS AND STABILIZERS IN POLYVINYL CHLORIDE RESIN
J. CHEM. SOC. JAPAN. IND. CHEM. SECT., NO. 3, 590, 1972
- 290 72 013 ARSENAULT GP
ALTERNATE OR SIMULTANEOUS ELECTRON IMPACT-CHEMICAL IONIZATION MASS SPECTROMETRY OF GAS
CHROMATOGRAPHIC EFFLUENT
ANAL. CHEM., 43, 1720, 1971
- 290 72 014 ATKINSON AJ

RAPID GPC MEASUREMENT OF PLASMA PROCAINAMIDE CONCENTRATION
CLIN. CHEM., 18, 643, 1972
- 290 72 015 BAILLIE TA DRODOK CJM MORNING EC
O-BUTYLOXIMES AND O-PENTYLOXIMES AS DERIVATIVES FOR STUDY OF KETOSTEROIDS BY GAS CHROMATOGRAPHY
ANAL. LETS., 5, 351, 1972
- 290 72 016 BARRATT RS BELCHER R
DETERMINATION OF TRACES OF NICKEL BY GAS-LIQUID CHROMATOGRAPHY
ANAL. CHIM. ACTA, 59, 59, 1972
- 290 72 017 BARRERA PINERO R GASCO SANCHEZ L VALVERDE GARCIA F
1. RESEARCH INTO AROMA CHANGES IN IRRADIATED FOODSTUFFS. 2. RESEARCH INTO AROMA CHANGES IN
IRRADIATED FOODSTUFFS. 1. STUDIES ON FISH. 3. VOLATILE RADIOLYTIC COMPOUNDS IN IRRADIATED FISH
1. IAEA-R-678-F. FINAL REPORT, SEPT. 1968 - OCT. 1971, INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA,
AUSTRIA, OCT. 1971, 140P IN SPANISH, INIS. 2. JEN-238, JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN,
1972, 142P IN SPANISH, NTIS. 3. ENERG. NUCL. (MADRID), 15, NO. 69, 21-33, 1971 IN SPANISH
- 290 72 018 BAYER E
HEXAFLUOROMONOTHIOACETYLACETONE: A NEW LIGAND FOR GAS CHROMATOGRAPHIC SEPARATION OF D(8)-METALS
ANAL. CHEM., 43, 2012, 1971
- 290 72 019 BELCHER R MAJER JR RODRIGUE VA
GAS CHROMATOGRAPHIC METHOD FOR DETERMINATION OF LOW CONCENTRATIONS OF CHLORIDE ION
ANAL. CHIM. ACTA, 57, 73, 1971
- 290 72 020 BENOIT GL
REDUCTION OF CHROMATOGRAPHIC DATA AND EVALUATION OF A GC MODEL
N71-35514, RHEINGLAER POLYTECHNIC INST., TRGV, NEW YORK, 93P
- 290 72 021 BERLIN A AGURELL S BORGA O
MICROMETHOD FOR DETERMINATION OF DIPHENYLHYDANTOIN IN PLASMA AND CEREBROSPINAL FLUID COMPARISON
BETWEEN A GAS CHROMATOGRAPHIC AND SPECTROPHOTOMETRIC METHOD
SCAND. J. CLIN. LAB. INVEST., 29, 281, 1972
- 290 72 022 BERTHOUD F
IDENTIFICATION OF SALPHA-ANDROSTANE-3BETA,17BETA-DIOL IN HUMAN URINE
J. STEROID BIOCHEM., 3, 819, 1972
- 290 72 023 BERTILSSON L ATKINSON AJ ALTHAUS JR
QUANTITATIVE DETERMINATION OF 5-HYDROXYINDOLE-3-ACETIC ACID IN CEREBROSPINAL FLUID BY GAS
CHROMATOGRAPHY-MASS SPECTROMETRY
ANAL. CHEM., 44, 1434, 1972

- 290 72 024 BIERL BA
CHROMATOGRAPHIC, SPECTROSCOPIC, AND CHEMICAL IDENTIFICATION OF POSITIONAL ISOMERS OF SOME ALCOHOLS, ACETATES, KETONES EPOXIDES, OTHERS, AND OLEFINS
THESIS, THE AMERICAN UNIV., WASHINGTON, D.C. UNIV. MICROFILMS ORDER NO. 71-30,523. DISS. ABS., 328, 6, 3220, 1971
- 290 72 025 BJORKHEM I ERIKSSON H GUSTAFSSON J EINARSSON K
1. METABOLISM OF STEROIDS IN GERM-FREE AND CONVENTIONAL RATS TREATED WITH A 3BETA-HYDROXY-DELTA4-STEROID OXIDOREDUCTASE INHIBITOR. 2. STEROID HORMONE METABOLISM IN DEVELOPING RATS. 3. BETA3-HYDROXY-DELTA5-C19 AND C21 STEROID OXIDOREDUCTASE ACTIVITY IN RAT LIVER
EUR. J. BIOCHEM., 16, 557, 1970 AND 27, 318, 1972 AND STEROIDS, 19, 471, 1972
- 290 72 026 BJORKHEM I
1. MICROSOMAL DEHYDROGENATION OF OMEGA1 AND OMEGA2-HYDROXY FATTY ACIDS. 2. ON RATE LIMITING STEP IN MICROSOMAL HYDROXYLATION OF STEROIDS
BIOCHIM. BIOPHYS. ACTA, 260, 178, 1972 AND EUR. J. BIOCHEM., 27, 354, 1972
- 290 72 027 BJORKMAN LR KARLSSON K NILSSON K PASCHER I
1. IDENTIFICATION OF LARGE AMOUNTS OF CEREBROSIDE AND CHOLESTEROL SULFATE IN SEA STAR, ASTERIAS RUBENS. 2. ON EXISTENCE OF CEREBROSIDE AND CHOLESTEROL SULFATE IN TISSUES OF SEA STAR, ASTERIAS RUBENS
BIOCHIM. BIOPHYS. ACTA, 270, 260, 1972 AND COMP. BIOCHEM. PHYSIOL., 43, 409, 1972
- 290 72 028 BLATCHLE FR DONOVAN BT HORTON EW
RELEASE OF PROSTAGLANDINS AND PROGESTIN INTO UTERO-OVARIAN VENOUS BLOOD OF GUINEA PIGS DURING OESTROUS CYCLE AND FOLLOWING OESTROGEN TREATMENT
J. PHYSIOL. (LONDON), 223, 69, 1972
- 290 72 029 BLESSINGTON B
GLC-MS STUDIES OF SULPHONAMIDES
ORG. MASS SPECTRY, 6, 347, 1972
- 290 72 030 BLONQUIST M
GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN FORENSIC CHEMISTRY FOR IDENTIFICATION OF SUBSTANCES ISOLATED FROM TISSUE
Z. RECHTSMED., 69, NO. 1, 52-62, 1971
- 290 72 031 BLOMSTRA R GURTLE J LILJEQVIST L
IMPROVED, CONTINUOUS, RADIO GAS CHROMATOGRAPHY OF HYDROGEN-3 AND CARBON-14 LABELLED COMPOUNDS USING HYDROCRACKING
ANAL. CHEM., 44, 277, 1972
- 290 72 032 BLOMSTRA R LILJEQVIST L
OBSERVATIONS ON ACCELERATION OF FATTY ACID SYNTHESIS IN PHYTOHEMAGGLUTININ TREATED LYMPHOCYTES
ACTA CHEM. SCAND., 26, 397, 1972
- 290 72 033 BONELLI EJ
1. COMPUTER CONTROLLED GC/MS FOR THE ANALYSIS OF POLYCHLORINATED BIPHENYLS. 2. GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC TECHNIQUES FOR DETERMINATION OF INTERFERENCES IN PESTICIDE ANALYSIS
AMER. LAB., 3, NO. 2, 27, 1971 AND ANAL. CHEM., 44, 603, 1972
- 290 72 034 BONELLI EJ SMITH RD
GAS CHROMATOGRAPH - MASS SPECTROMETER SYSTEMS IN WATER POLLUTION CONTROL
EFFLUENT WAT. TREAT. J., 12, 87, 1972 AND BRIT. TECH. IND., 11, NO. 4, 76, 1972
- 290 72 035 BONNICHSEN R

DETERMINATION OF ETHYL ALCOHOL BY COMPUTERIZED MASS CHROMATOGRAPHY
Z. RECHTSMED., 71, 134, 1972
- 290 72 036 BOOTH GH DARBY WJ
DETERMINATION BY GAS-LIQUID CHROMATOGRAPHY OF PHYSIOLOGICAL LEVELS OF CHROMIUM IN BIOLOGICAL TISSUES
ANAL. CHEM., 43, 831, 1971
- 290 72 037 BORGA O
QUANTITATIVE DETERMINATION OF NORTRIPTYLINE AND DESMETHYLNORTRIPTYLINE IN HUMAN PLASMA BY COMBINED GAS CHROMATOGRAPHY - MASS SPECTROMETRY
ANAL. LTRS., 4, 837, 1971
- 290 72 038 BOSSHARD C
QUANTITATIVE AUSWERTUNG VON GAS-CHROMATOGRAMMEN PARTIELL GETRENNTER STOFFGEMISCHE (QUANTITATIVE ANALYSIS OF GAS CHROMATOGRAMS OF PARTIALLY SEPARATED MATERIAL MIXTURES)
HELV. CHIM. ACTA, 54, 1059, 1971
- 290 72 039 BROOKS CJW MACLEAN I
1. CYCLIC N-BUTYLBORONATES AS DERIVATIVES OF POLAR BIFUNCTIONAL GROUPS FOR GAS CHROMATOGRAPHY AND MASS SPECTROMETRY. 2. CHARACTERIZATION OF STEROIDAL DRUG METABOLITES BY COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. CHROMATOGR. SCI., 9, 18 AND 35, 1971
- 290 72 040 BROOKS CJW
GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN BIOLOGY AND MEDICINE
PROC. ROY. SOC. MED., 65, 826, 1972
- 290 72 041 BROOKS CJW MIDDLEDITCH BS
USES OF CHLOROMETHYLDIMETHYLSILYL ETHERS AS DERIVATIVES FOR COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY OF STEROIDS
ANAL. LTRS., 5, 811, 1972
- 290 72 042 BRUNER F CICCIGLI P DI CORCIA A
GAS CHROMATOGRAPHIC ANALYSIS OF COMPLEX DEUTERATED AND TRITIATED MIXTURES WITH PACKED COLUMNS
ANAL. CHEM., 44, 894, 1972
- 290 72 043 BRYCE TA TELLING GM
SEMIQUANTITATIVE ANALYSIS OF LOW LEVELS OF VOLATILE NITROSAMINES BY GAS CHROMATOGRAPHY - MASS SPECTROMETRY
J. AGR. FOOD CHEM., 20, 910, 1972
- 290 72 044 BUNNETT JF FEIT IN
FACTORS LIMITING THE EXTENT OF ISOMERISATION OF 1,2,4-TRIBROMOBENZENE IN THE POTASSIUM ANILIDE-AMMONIA SYSTEM
JACS, 93, 1201, 1971

- 290 72 045 BURGETT CA
GAS CHROMATOGRAPHIC DETERMINATION OF LANTHANIDE MIXED-LIGAND COMPLEXES OF 1,1,1,2,2,6,6,7,7-
DECAFLUORO-3,5-HEPTANEDIONE
IS-T-541, THESIS. IOWA STATE UNIV., AMES, AMES LAB. USAEC, AUG. 1971. 152P. NTIS
- 290 72 046 BURGETT CA FRITZ JS
SEPARATION AND QUANTITATIVE DETERMINATION OF THE YTTRIUM GROUP LANTHANIDES BY GAS-LIQUID
CHROMATOGRAPHY
ANAL. CHEM., 44. 1738, 1972
- 290 72 047 BURGUS R
PRIMARY STRUCTURE OF THE OVINE HYPOTHALAMIC LUTEINIZING HORMONE RELEASING FACTOR (LRF)
PROC. NAT. ACAD. SCI. U.S.A., 69. 278, 1972
- 290 72 048 BURKS SL
ORGANIC CHEMICAL COMPOUNDS IN KEYSTONE RESERVOIR
THESIS. OKLAHOMA STATE UNIV., STILLWATER, UNIV. MICROFILMS ORDER NO. 70-21.353. DISS. ABS., 318. 8.
5071, 1971
- 290 72 049 BURNHAM AK CALDER GV FRITZ JS JUNK GA SVEC HJ
WILLIS R
IDENTIFICATION AND ESTIMATION OF NEUTRAL ORGANIC CONTAMINANTS IN POTABLE WATER
ANAL. CHEM., 44. 129, 1972
- 290 72 050 BUTT RI COTTER JL
ANALYSIS WITH A PYROLYSIS GAS CHROMATOGRAPH - MASS SPECTROMETER SYSTEM: POLYIMIDES
N71-23432. ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH, ENGLAND. 24P
- 290 72 051 BUTTS WC RAINEY WT
1. GAS CHROMATOGRAPHIC SEPARATION OF TRIMETHYLSILYL (TMS)-NUCLEOSIDES: TMS-METHOXIME DERIVATIVES OF
CYTIDINE AND DEOXYCYTIDINE. 2. GAS CHROMATOGRAPHY AND MASS SPECTROMETRY OF THE TRIMETHYLSILYL
DERIVATIVES OF INORGANIC ANIONS
J. CHROMATOGR. SCI., 8. 474, 1970 AND ANAL. CHEM., 43. 538, 1971
- 290 72 052 CALA PC TRENNER NR BUHS RP
GAS CHROMATOGRAPHIC DETERMINATION OF PYRIMETHAMINE IN TISSUE
J. AGR. FOOD CHEM., 20. 337, 1972
- 290 72 053 CASEY CP CYR CR
HYDROFORMYLATION OF 3-METHYL-1-HEXENE-3-DI. EVIDENCE AGAINST DIRECT FORMYLATION OF A METHYL GROUP IN
THE 'OXO' REACTION
JACS, 93. 1280, 1971
- 290 72 054 CASHAW JL
STUDIES OF METABOLISM OF NEUROAMINE DERIVED TETRAHYDROISOQUINOLINE ALKALOIDS BY MAMMALIAN SYSTEMS
USING GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
A724199. AMERICAN CHEMICAL SOCIETY SOUTHWEST REGIONAL MEETING, BATON ROUGE, LA., DEC. 6-8, 1972
- 290 72 055 CASTELLO G MUNARI S
GAS CHROMATOGRAPHIC ANALYSIS OF ATMOSPHERIC GAS POLLUTANTS USING A METASTABLE HELIUM DETECTOR
RFP-TRANS-121. TRANSLATED FROM CHIM. IND. (MILAN), 51. 469, 1969. 19P. NTIS
- 290 72 056 CATTABENI F KOSLOW SH COSTA E
GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC ASSAY OF FOUR INDOLE ALKYLAMINES OF RAT PINEAL
SCIENCE, 178. 166, 1972
- 290 72 057 CHANG TL MEAD TE
TANDEM THERMOGRAVIMETRIC ANALYZER-GAS CHROMATOGRAPH-HIGH RESOLUTION MASS SPECTROMETER SYSTEM
ANAL. CHEM., 43. 534, 1971
- 290 72 058 CHARRIER G DUPUIS MC LUTZ M MASSIMINO D
RAPID RADIOACTIVITY CONTROL OF A GASEOUS ENVIRONMENT BY CHROMATOGRAPHY
PP 101-17 OF RAPID METHODS FOR MEASURING RADIOACTIVITY IN THE ENVIRONMENT. INTERNATIONAL ATOMIC
ENERGY AGENCY, VIENNA, 1971. IN FRENCH. FROM SYMPOSIUM HELD AT NEUHERBERG, GERMANY, JULY 5, 1971.
STI/PUB-289 AND CONF-710705
- 290 72 059 CHAYIM JP LRAIMUN M JAKOV MJ
GAS CHROMATOGRAPHY AND MASS SPECTROMETRY OF SOME ISOMERIC CYCLIC AMINES AS THEIR TRIFLUOROACETYL
DERIVATIVES
J. CHROMATOGR., 70. 141, 1972
- 290 72 060 CHILCOTE DD SCOTT CD
MATHEMATICAL ANALYSIS OF NORMALIZATION TECHNIQUES USED IN CHROMATOGRAPHY
CONF-730411-1. OAK RIDGE NATIONAL LAB., TENN., 1972. 19P. NTIS. FROM 8TH INTERNATIONAL SYMPOSIUM ON
ADVANCES IN CHROMATOGRAPHY, TORONTO, CANADA, APRIL 16, 1973
- 290 72 061 CHOY YM DUTTON GG GIBNEY KB
COMMENTS ON GAS-LIQUID CHROMATOGRAPHY AND MASS SPECTROMETRY OF METHYLATED ALDITOL ACETATES
J. CHROMATOGR., 72. 13, 1972
- 290 72 062 CICERO TJ SHERMAN WR
COMBINED GAS CHROMATOGRAPHY MASS SPECTROMETRY OF BRAIN POLYPHOSPHOINOSITIDES
BIOCHEM. BIOPHYS. RES. COMMUN., 42. 428, 1971
- 290 72 063 CLARE KA UNAFFAH GH GEORGE GF
RAPID IDENTIFICATION OF DRUGS IN CASES OF SELF POISONING BY MEANS OF COMBINED GC-MS-COMPUTER SYSTEM
BRIT. J. PHARMACOL., 44. 390P, 1972
- 290 72 064 COHEN MJ
PLASMA CHROMATOGRAPHY (TM), THE DRIFTMASS SPECTROMETER
PP 68 OF 10TH NATIONAL MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY (ABSTRACTS ONLY), SOCIETY FOR
APPLIED SPECTROSCOPY, NEW YORK, 1971. FROM MEETING HELD IN ST. LOUIS, MO., OCT. 18-22, 1971
- 290 72 065 CRAW SP JUVET RS
GAS CHROMATOGRAPHY (REVIEW)
ANAL. CHEM., 44. NO. 5. 213R-41R, 1972. 1034 REFERENCES
- 290 72 066 CRAVER RH REED D EDGWITH PP
APPLICATIONS OF GAS CHROMATOGRAPHY IN FORENSIC TOXICOLOGY
AMES. LAB., 4. NO. 5. 63, 1972. 51 REFERENCES

- 290 72 067 CRAWHALL JC
URINARY PHENOLIC ACIDS IN TYROSINEMIA. IDENTIFICATION AND QUANTITATION BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
CLIN. CHIM. ACTA. 34. 47. 1971
- 290 72 068 CROBIN DA NURSTEN HE WOOLFE ML
EVALUATION OF CAPABILITIES OF A RELATIVELY INEXPENSIVE COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY SYSTEM
J. MASS SPECTRY. ION PHYS.. 10. 47. 1972
- 290 72 069 DAGNALL RM FLEET B RISBY TH DEANS DR
GAS CHROMATOGRAPHIC SEPARATION OF VOLATILE FLUORIDES USING A HYDROGEN DIFFUSION FLAME AS DETECTOR
ANAL. LTRS. 4. 497. 1971
- 290 72 070 DAMOTH DC LUCHTE AJ MCNAIR HM DOBBS CR AUNG LH
ANALYSIS OF STEROID HORMONES BY A NEW DIRECT GAS CHROMATOGRAPHY/MASS SPECTROMETER INTERFACE
CHAPTER 15 OF DYNAMIC MASS SPECTROMETRY. VOLUME 3. PRICE, D. (ED.). HEYDEN AND SONS LTD., LONDON. 1972
- 290 72 071 DAVIES DG
ACTION OF BASE ON NONENOLISABLE CARBONYL COMPOUNDS. 1. CLEAVAGE OF BENZOPHENONES AND SOME RELATED KETONES
J. CHEM. SOC. C. P455. 1971
- 290 72 072 DE WILT HGJ
A GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC STUDY ON TMS DERIVATIVES OF SORBOSE, 2-KETO-L-4-GULONIC AND ASCORBIC ACID
J. CHROMATOGR. 63. 379. 1971
- 290 72 073 DEHENNIN LA REIFFSTE A SCHOLLER R
HALOGENATED DIESTERS OF TESTOSTERONE. RESPONSE TO ELECTRON CAPTURE DETECTION. GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC PROPERTIES
J. CHROMATOGR. SCI.. 10. 224. 1972
- 290 72 074 DEMAYO A COMBA M
THE GC AND DIRECT INLETS MASS SPECTRA OF HEPTACHLOR AND 1-HYDROXYCHLORDENE
BULL. ENVIRON. CONTAM. TOXICOL.. 8. 212. 1972
- 290 72 075 DEMOLE E BERTHET D
IDENTIFICATION DE LA DAMASCENONE ET DE LA BETA-DAMASCONE DANS LE TABAC BURLEY
HELV. CHIM. ACTA. 54. 681. 1971
- 290 72 076 DENCKER WD RUSHNECK DR SHOEMAKE GR
ELECTROCHEMICAL CELL AS A GAS CHROMATOGRAPH-MASS SPECTROMETER INTERFACE
ANAL. CHEM.. 44. 1753. 1972
- 290 72 077 DENNIS WE SPEIER JL
ADDITION OF SILICON HYDRIDES TO OLEFINIC DOUBLE BONDS. 12. USE OF AMINOSILICON HYDRIDES AND SILAZANE HYDRIDES. QCM-MS ANALYSIS
J. ORG. CHEM.. 35. 3879. 1970
- 290 72 078 DIETZ RN COTE EA FERBER GJ
EVALUATION OF AN AIRBORNE GAS CHROMATOGRAPH FOR LONG DISTANCE METEOROLOGICAL TRACING
BNL-17478. BROOKHAVEN NATIONAL LAB., UPTON, NEW YORK AND NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SILVER SPRING, MD., AIR RESOURCES LABS.. 1972. 7P. CONF-730403-2
- 290 72 079 DOBBINS MF HARNER HA BELLAMY MM
A GAS CHROMATOGRAPH FOR THE BIOCHEMICAL FIELD
AMER. LAB.. 4. NO. 10. 73. 1972. 22 REFERENCES
- 290 72 080 DOUGLAS AG BLUMER M EGLINTON G DOURAGHI Z
GAS CHROMATOGRAPHIC - MASS SPECTROMETRIC CHARACTERIZATION OF NATURALLY OCCURRING ACYCLIC ISOPRENOID CARBOXYLIC ACIDS
TETRAHEDRON. 27. 1071. 1971. AD-727 358. 1970. NTIS
- 290 72 081 DOWIE RS KEMBALL C KEMPLING JC WHAN DA
USE OF A COMBINED GAS CHROMATOGRAPH-MASS SPECTROMETER TO STUDY DEUTEROLYSIS OF NEOPENTANE OVER IRON FILMS
PROC. ROY. SOC. (LONDON). SER. A. 327. 491. 1972
- 290 72 082 DRAFFAN GH
GAS CHROMATOGRAPHIC DIAGNOSIS OF INTERMITTENT MAPLE SYRUP URINE DISEASE (BRANCH-CHAIN KETOACIDURIA) A GOMPERTZ D
CLIN. CHIM. ACTA. 40. 5. 1972
- 290 72 083 DRAVNIKS A O'DONNELL A
CHEMICAL SPECIES IN ENGINE EXHAUST AND THEIR CONTRIBUTIONS TO EXHAUST ODOR
PB-198 072. IIT RESEARCH INST., CHICAGO, ILL. 99P
- 290 72 084 DRAWERT F TRESSEL R BECK B
GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC INVESTIGATION OF IRRADIATED ANIMAL FATS
PP 50-66 OF EUR-4695. PROGRESS REPORT, JULY 1969 - OCT. 1970. TECHNISCHE UNIV., MUNICH. IN GERMAN AND ENGLISH. FROM THE IDENTIFICATION OF IRRADIATED FOODSTUFFS CONFERENCE, LUXEMBOURG, OCT. 27. 1970
- 290 72 085 DURLLEY RC
INVESTIGATION OF GIBBERELLINS AND OTHER GROWTH SUBSTANCES IN THE SEED OF PHASEOLUS MULTIFLORUS AND OF PHASEOLUS VULGARIS BY GAS CHROMATOGRAPHY AND BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
PHYTOCHEM.. 10. 1891. 1971
- 290 72 086 EINARSSON K GUSTAFSSON J GOLDMAN AS
METABOLISM OF STEROID HORMONES, STEROLS, AND BILE ACIDS IN LIVER MICROSOMES FROM MALE, FEMALE, AND MALE-PSEUDOHENAPHRODITIC RATS
EUR. J. BIOCHEM.. 31. 345. 1972
- 290 72 087 EISENTRAUT KJ GRIEST DJ SIEVERS RE
ULTRATRACE ANALYSIS FOR BERYLLIUM IN TERRESTRIAL, METEORITIC, AND APOLLO 11 AND 12 LUNAR SAMPLES USING ELECTRON CAPTURE GAS CHROMATOGRAPHY
ANAL. CHEM.. 43. 2003. 1971. FROM 7TH INTERNATIONAL CHROMATOGRAPHY SYMPOSIUM, LAS VEGAS, NEV., NOV. 29. 1971

- 250 72 088 ELDJARN L JELLUM E STOKKE O PANDE H WAALER PE
BETA-HYDROXYISOVALERIC ACIDURIA AND BETA-METHYLCROTONYLGLYCINURIA: A NEW INBORN ERROR OF METABOLISM
THE LANCET, SEPTEMBER 5, 521, 1970
- 290 72 089 ELDJARN L JELLUM E STOKKE O
PYROGLUTAMIC ACIDURIA: STUDIES ON THE ENZYMIC BLOCK AND ON THE METABOLIC ORIGIN OF PYROGLUTAMIC ACID
CLIN. CHIM. ACTA, 40, 461, 1972
- 290 72 090 ELKIN YN ROZINOV BV DZIZENKO AK
GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY OF ALDONONITRILE ACETATES OF PARTIALLY METHYLATED
DELTA-XILO AND DELTA-ARABOPYRANOS
KHIM. PRIROD. SOEDIN., P642, 1972 IN RUSSIAN
- 290 72 091 ENEROTH P FERNGREN H GUSTAFSSON J
1. EXCRETION OF STEROID HORMONES IN AN ENCEPHALIC NEWBORN INFANT. 2. EXCRETION AND ANTICONVULSANT
ACTIVITY OF STEROID HORMONES IN AN INFANT WITH INFANTILE SPASM AND HYPARRHYTHMIA TREATED WITH
EXCESSIVE DOSES OF ACTH
ACTA ENDOCRINOL., 70, 113, 1972 AND J. STEROID BIOCHEM., 3, 877, 1972
- 290 72 092 ERIKSSON H GUSTAFSSON J POUSSETTE A
1. METABOLISM OF ANDROSTENEDIONE AND PROGESTERONE IN ISOLATED PERFUSED RAT LIVER. 2. EXCRETION OF
STEROID HORMONES IN ADULTS. STEROIDS IN URINE FROM ADULTS
EUR. J. BIOCHEM., 27, 327, 1972 AND CLIN. CHIM. ACTA, 41, 79, 1972
- 290 72 093 FAZIO T
GAS CHROMATOGRAPHIC DETERMINATION AND MASS SPECTROMETRIC CONFIRMATION OF N-NITROSODIMETHYLAMINE IN
SMOKE PROCESSED MARINE FISH
J. AGR. FOOD CHEM., 19, 250, 1971
- 290 72 094 FINKLE BS TAYLOR DM BONELLI EJ
A GC/MS REFERENCE DATA SYSTEM FOR THE IDENTIFICATION OF DRUGS OF ABUSE
J. CHROMATOGR. SCI., 10, 312, 1972
- 250 72 095 FORREST JM KNIGHTS RA
PRESENCE OF PHYTOSTEROLS IN FOOD OF APHID, MYZUS PERSICAE
J. INSECT PHYSIOL., 18, 723, 1972
- 290 72 096 FREED DJ FAULKNER LR
CHARACTERIZATION OF GAS CHROMATOGRAPHIC EFFLUENTS VIA SCANNING FLUORESCENCE SPECTROMETRY
ANAL. CHEM., 44, 1194, 1972
- 290 72 097 FREEDMAN AN
GAS CHROMATOGRAPH-MASS SPECTROMETER INTERFACE
ANAL. CHIM. ACTA, 59, 19, 1972
- 290 72 098 FRIGERIO A
1. A METHOD FOR THE DETERMINATION OF IMIPRAMINE IN HUMAN PLASMA BY GAS-LIQUID CHROMATOGRAPHY-MASS
FRAGMENTOGRAPHY. 2. DETECTION OF 2,5-DIMETHOXY-4-METHYLANPHETAMINE BY GAS CHROMATOGRAPHY-MASS
FRAGMENTOGRAPHY
J. CHROMATOGR., 74, 201, 1972 AND CHEM. IND. (LONDON), P769, 1972
- 290 72 099 FRIGERIO A
GAS CHROMATOGRAPHY - MASS SPECTROMETRY
BOOK, TAMBURINI, MILANO, 1972, 505P
- 290 72 100 FRIMMEL F
- COMBINING GAS CHROMATOGRAPHY AND MASS SPECTROSCOPY FOR ANALYSIS OF PESTICIDES IN WATER
WASSERBODEN-LUFTHYG SCHRIFTENREIHE, 37, 51-64, 1972
- 290 72 101 FUCHS G ASP B HANSSON I
FATTY ACID COMPOSITION OF PORK FAT AS DETERMINED BY COMBINED GAS-LIQUID CHROMATOGRAPHY-MASS
SPECTROMETRY
SWED. J. AGR. RES., 2, NO. 3, 121, 1972
- 290 72 102 FUJITA E
CHANGE OF QUANTITY OF EACH MAJOR DITERPENOID DURING GROWTH OF ISODON TRICHOCARPUS KUDO: ITS
EXPLORATION BY GC AND GC/MS
YAKAGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 1400, 1972
- 290 72 103 GALLEGOS EJ
IDENTIFICATION OF NEW STERANES, TERPANES, AND BRANCHED PARAFFINS IN GREEN RIVER SHALE BY COMBINED
CAPILLARY GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
ANAL. CHEM., 43, 1151, 1971
- 290 72 104 GAMES DE
IDENTIFICATION OF 4-PHENYL AND 4-ALKYLCUMARINS IN MAMMEA AMERICANA L., MAMMEA AFRICANA G. DON, AND
CALOPHYLLUM INDIANUM BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
TETRAHEDRON LETS, P3187, 1972
- 290 72 105 GANNON RE
GAS MONITORING EQUIPMENT INVESTIGATION
AD-730 509, BATTELLE MEMORIAL INST., COLUMBUS, OHIO, 122P
- 290 72 106 GARTEIZ DA WALLE T
ELECTRON IMPACT FRAGMENTATION STUDIES OF BETA-BLOCKING DRUGS AND THEIR METABOLITES BY GC-MASS
SPECTROMETRY
J. PHARM. SCI., 61, 1728, 1972
- 290 72 107 GARZO G
THERMAL DECOMPOSITION OF BRANCHED CHAIN METHYLPOLYSILOXANES. 2. SEPARATION AND IDENTIFICATION OF THE
PYROLYSIS PRODUCTS BY GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
ACTA CHIM. ACAD. SCI. HUNG., 69, 273, 1971
- 290 72 108 GAUCHEL FD WAGNER G BASSLER KH
DETERMINATION OF XYLITOL AND SORBITOL IN BLOOD. A COMPARISON OF GAS CHROMATOGRAPHIC AND
ENZYMATIC-KINETIC METHODS
Z. KLIN. CHEM. KLIN. BIOCHEM., 9, 25, 1971 IN GERMAN
- 290 72 109 GAWLOWSKI J NIEDZIELSKI J RIFRZYNSKI A
GAS CHROMATOGRAPHIC ANALYSIS OF C1-C6 HYDROCARBONS, PRODUCTS OF RADIOLYSIS OF GASEOUS ETHYLENE
GIGH. ANAL. (WARSAW), 15, 721, 1970

- 290 72 110 GIBERT-SABATE JM
STUDIES IN CHEMICAL EVOLUTION. GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC DETERMINATION OF ORGANIC, AND
ORGANOGENIC MATTER IN LUNAR SAMPLES, CARBONACEOUS CHONDRITES, AND TERRESTRIAL SAMPLES
THESIS. UNIV. OF HOUSTON, TEXAS. 1971. UNIV. MICROFILMS ORDER NO. 71-27.869. DISS. ABS., 32B, 5,
2567, 1971
- 290 72 111 GILBERT JD BROOKS CJW HARLAND WA
LIPIDS OF HUMAN ATHEROMA. 7. ISOLATION OF DIESTERS OF CHOLEST-5-ENE-3-BETA,26-DIOL FROM EXTRACTS OF
ADVANCED ATHEROSCLEROTIC LESIONS OF HUMAN AORTA
BIOCHIM. BIOPHYS. ACTA, 270, 149, 1972
- 290 72 112 GIRY L CHAIGNEAU M
GAS CHROMATOGRAPHY - MASS SPECTROMETRY COMBINATION FOR DETERMINATION OF TRACES OF PERMANENT GASES
ANALYSIS, 1, NC, 7, 475, 1972
- 290 72 113 GIUMANINI AG LERCKER G
BROMINE-LITHIUM EXCHANGE OF P-BROMO-N,N-DIMETHYLANILINE WITH N-BUTYLLITHIUM, GLC RETENTION TIMES
J. ORG. CHEM., 35, 3756, 1970
- 290 72 114 GORDON AE FRIGERIO A
MASS FRAGMENTOGRAPHY AS AN APPLICATION OF GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY IN BIOLOGICAL
RESEARCH
J. CHROMATOGR., 73, 401, 1972
- 290 72 115 GOUGH TA WEBB KS
THE USE OF A MOLECULAR SEPARATOR IN THE DETERMINATION OF TRACE CONSTITUENTS BY COMBINED GAS
CHROMATOGRAPHY AND MASS SPECTROMETRY
J. CHROMATOGR., 64, 201, 1972
- 290 72 116 GRANSTROM E
ON METABOLISM OF PROSTAGLANDIN F(2ALPHA) IN FEMALE SUBJECTS. 1. STRUCTURES OF TWO C14 METABOLITES.
2. STRUCTURES OF TWO METABOLITES IN BLOOD
EUR. J. BIOCHEM., 25, 581, 1972 AND 27, 462, 1972
- 290 72 117 GRANSTROM E SAMUELSSON B
STRUCTURE OF A DEOXYPROSTAGLANDIN IN MAN
JACS, 94, 4380, 1972
- 290 72 118 GRAY FB
RESEARCH IN THE OPTIMIZATION OF SEPARATOR SUB-SYSTEMS FOR GC/MS LIFE DETECTION INSTRUMENTATION
N70-36106. COLLEGE OF THE VIRGIN ISLANDS, FINAL REPORT NOV. 1969 - JULY 1970. 16P
- 290 72 119 GRAY MF LAWRIE TD BROOKS CJW
ISOLATION AND IDENTIFICATION OF CHOLESTEROL ALPHA-OXIDE AND OTHER MINOR STEROLS IN HUMAN SERUM
LIPIDS, 6, 836, 1971
- 290 72 120 GRAYSON MA LEVY RL
A MICROSEPARATOR FOR GC/MS WITH OPEN TUBULAR COLUMNS
J. CHROMATOGR. SCI., 9, NO. 11, XXX, 1971
- 290 72 121 GREIG JB
REDUCTION OF DELTA24 OF LANOSTEROL IN THE BIOSYNTHESIS OF CHOLESTEROL BY RAT LIVER ENZYMES. 1. THE
ADDITION OF A 24-PRO-S PROTON
JACS, 93, 760, 1971
- 290 72 122 GROB K GROB G
- GAS-LIQUID CHROMATOGRAPHIC-MASS SPECTROMETRIC INVESTIGATION OF C6-C20 ORGANIC COMPOUNDS IN AN URBAN
ATMOSPHERE. APPLICATION OF ULTRA TRACE ANALYSIS ON CAPILLARY COLUMNS
J. CHROMATOGR., 62, 1, 1971
- 290 72 123 GUERTLER J BLOMSTRAND R
GAS CHROMATOGRAPHY - MASS SPECTROMETRY OF HEXAHYDRO UBIQUINONE-4 AND RELATED COMPOUNDS. CRITICAL
EXAMINATION OF ANALYTICAL PROCEDURES
INT. J. VITAM. NUTR. RES., 41, 204, 1971
- 290 72 124 GUPTA AS DEV S
STUDIES IN SESQUITERPENES. 46. SESQUITERPENES FROM THE OLEORESIN OF DIPTEROCARPUS PILOSUS: HUMULENE
EPOXIDE-III, CARYOPHYLLENOL-I, AND CARYOPHYLLENOL-II
TETRAHEDRON, 27, 635, 1971
- 290 72 125 GUSTAFSSON JA LISBOA BP
STUDIES ON THE METABOLISM OF C19 STEROIDS IN RAT LIVER. 1. BIOSYNTHESIS OF SATURATED 17-OXD-C1903
STEROIDS IN RAT LIVER MICROSOMES. 2. FORMATION OF 16,17-DIHYDROXYLATED C19 STEROIDS FROM
15-DEHYDRO C19 STEROIDS IN LIVER MICROSOMES FROM MALE AND FEMALE RATS
EUR. J. BIOCHEM., 16, 475, 1970 AND BIOCHIM. BIOPHYS. ACTA, 296, 179, 1972
- 290 72 126 GUSTAFSSON J POUSSETTE A GOLDMAN AS
1. STEROID EXCRETION PATTERNS IN URINE FROM OVARIETOMIZED AND ADRENALECTOMIZED RATS. 2. STEROID
MONOSULFATES IN URINE FROM MALE RAT PSEUDOHENAPHRODITES
BIOCHIM. BIOPHYS. ACTA, 280, 182, 1972 AND ENDOCRINOL., 90, 931, 1972
- 290 72 127 GUSTAFSSON J ENEROTH P
STEROIDS IN MECONIUM AND FAECES FROM NEWBORN INFANTS
PROC. ROY. SOC. (LONDON), SER. B, 180, 179, 1972
- 290 72 128 HAGA H IMANARI T TANURA Z
GAS CHROMATOGRAPHY AND ITS COMBINATION WITH MASS SPECTROMETRY OF URINARY SUGAR ALCOHOLS
CHEM. PHARM. BULL. (TOKYO), 20, 1805, 1972
- 290 72 129 HAMBERG M SAMUELSSON B
ON METABOLISM OF PROSTAGLANDINS-E1 AND E2 IN GUINEA PIG
J. BIOL. CHEM., 247, 3495, 1972
- 290 72 130 HAMMAR C
MASS FRAGMENTOGRAPHY AND ELEMENTAL ANALYSIS BY MEANS OF NEW AND COMBINED MULTIPLE ION DETECTOR-PEAK
MATCHER DEVICE. DEVELOPMENTS OF NEW TECHNIQUES IN GAS CHROMATOGRAPHY-MASS SPECTROMETRY
ACTA PHARM. SUEC., 8, 129, 1971
- 290 72 131 HAMMARSTROM S
BRAIN GLUCOSYL CERAMIDES CONTAINING 2-HYDROXY ACIDS. IDENTIFICATION OF MOLECULAR SPECIES BY
GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY
EUR. J. BIOCHEM., 21, 388, 1971

- 290 72 132 HANSEN DW OLOFSON PA
THIOALKOXYLATION OF SULFIDES AND OTHER NUCLEOPHILES
TETRAHEDRON, 27, 4221, 1971
- 290 72 133 HARRISON FA HEAP RB HORTON EW
IDENTIFICATION OF PROSTAGLANDIN F(2ALPHA) IN UTERINE FLUID FROM NONPREGNANT SHEEP WITH AN
AUTOTRANSPLANTED OVARY
J. ENDOCRINOL., 53, 215, 1972
- 290 72 134 HAYASHI A MATSUBARA T
DETERMINATION OF THE STRUCTURE OF SPHINGA-4,8-DIENINE FROM OYSTER GLYCOLIPIDS BY GAS CHROMATOGRAPHY
AND MASS SPECTROMETRY
BIOCHIM. BIOPHYS. ACTA, 248, 306, 1971
- 290 72 135 HEATHERBELL DA
ISOLATION, CONCENTRATION, AND ANALYSIS OF CARROT VOLATILES USING ON-COLUMN TRAPPING AND GAS-LIQUID
CHROMATOGRAPHY - MASS SPECTROMETRY
J. AGR. FOOD CHEM., 19, 1069, 1971
- 290 72 136 HEINZ E MURAWSKI U RYHAGE R
MINOR CONSTITUENTS OF HUMAN MILK. 4. ANALYSIS OF BRANCHED CHAIN FATTY ACIDS
CHEM. PHYS. LIPIDS, 8, 42, 1972
- 290 72 137 HERAULT D LANCHEC G BLOURI B
CHROMATOGRAPHIC ANALYSIS OF MIXTURES OF PRIMARY, SECONDARY, AND TERTIARY AMINES HAVING THE SAME
MOLECULAR MASS
CHIM. ANAL. (PARIS), 54, 137, 1972. ANALYSIS
- 290 72 138 HIRANO K NARUSE M KAWAI S
COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY IN THE DETERMINATION OF URINARY ANTHRANILIC ACID
J. CHROMATOGR., 70, 53, 1972
- 290 72 139 HOLMSTED B LINDGREN J
DETECTION OF ADDICTIVES AND HALLUCINOGENS BY MEANS OF COMBINATION GAS CHROMATOGRAPHY/MASS
SPECTROMETRY
Z. ANAL. CHEM., 261, 291, 1972
- 290 72 140 HOLTZ RB
QUALITATIVE AND QUANTITATIVE ANALYSES OF FREE NEUTRAL CARBOHYDRATES IN MUSHROOM TISSUE BY GAS-LIQUID
CHROMATOGRAPHY AND MASS SPECTROMETRY
J. AGR. FOOD CHEM., 19, 1272, 1971
- 290 72 141 MORNING EC MORNING MG
HUMAN METABOLIC PROFILES OBTAINED BY GC AND GC/MS
J. CHROMATOGR. SCI., 9, 129, 1971
- 290 72 142 MORNING EC PFAFFENB CO MOFFAT AC
DESIGN STUDIES FOR A BIOMEDICAL GAS CHROMATOGRAPH
ANAL. CHEM., 44, 2, 1972
- 290 72 143 MORNING MG BOUCHER EA STAFFORD M
RAPID PROCEDURE FOR ISOLATION OF DRUGS AND DRUG METABOLITES FROM PLASMA
CLIN. CHIM. ACTA, 37, 381, 1972
- 290 72 144 IDLER DR WISEMAN P
IDENTIFICATION OF 22-CIS-CHOLESTA-5,22-DIEN-3BETA-OL AND OTHER SCALLOP STEROLS BY GAS-LIQUID
CHROMATOGRAPHY AND MASS SPECTROMETRY
COMP. BIOCHEM. PHYSIOL., 30A, 501, 1971
- 290 72 145 IKEKAWA N
COMBINED USE OF GAS CHROMATOGRAPH AND MASS SPECTROMETER
J. SOC. ORG. SYN. CHEM. (JAPAN), 28, 820, 1970
- 290 72 146 IKEKAWA N HATTORI F RUBIO LI
GAS CHROMATOGRAPHIC SEPARATION OF PHYTOECYDONES
J. CHROMATOGR. SCI., 10, 233, 1972
- 290 72 147 ISMAIL RJ
RADIATION INDUCED ALTERATIONS IN FLAVOR COMPONENTS IN PENEAEUS SETIFERUS
THESIS, LOUISIANA STATE UNIV., BATON ROUGE, 1971, 110P. UNIV. MICROFILMS ORDER NO. 71-29,374
- 290 72 148 JACOB L GUIDICHON G
MODEL FOR PREPARATIVE SCALE GAS CHROMATOGRAPHY
J. CHROMATOGR., 65, 19, 1972
- 290 72 149 JACQUELOT P THOMAS G
GAS PHASE CHROMATOGRAPHY OF SOME PHENOLTRIFLUOROACETONE CHELATES
J. CHROMATOGR., 66, 121, 1972
- 290 72 150 JELLUM E KLUGE T BORRESEN HC STOKKE O ELDJARN L
PYROGLUTAMIC ACIDURIA: A NEW INBORN ERROR OF METABOLISM
SCAND. J. CLIN. LAB. INVEST., 26, 327, 1970
- 290 72 151 JELLUM E
GAS CHROMATOGRAPHY - MASS SPECTROMETRY. TECHNIQUE AND APPLICATION TO MULTICOMPONENT ANALYSES OF
BIOLOGICAL MATERIALS
SCAND. J. CLIN. LAB. INVEST., 37, SUPPL. 118, 29, 1971
- 290 72 152 JELLUM E STOKKE O ELDJARN L
1. SCREENING FOR METABOLIC DISORDERS USING GAS-LIQUID CHROMATOGRAPHY, MASS SPECTROMETRY, AND
COMPUTER TECHNIQUES. 2. COMBINED USE OF GAS CHROMATOGRAPHY, MASS SPECTROMETRY, AND COMPUTER IN
DIAGNOSIS AND STUDIES OF METABOLIC DISORDERS
SCAND. J. CLIN. LAB. INVEST., 27, 273, 1971 AND CLIN. CHEM., 18, 800, 1972
- 290 72 153 JELTES R OENTONKE WA
GAS CHROMATOGRAPHY VS INFRARED SPECTROMETRY FOR DETERMINATION OF MINERAL OIL DISSOLVED IN WATER
WATER RES., 6, 271, 1972
- 290 72 154 JUNK GA
GAS CHROMATOGRAPH-MASS SPECTROMETER COMBINATIONS AND THEIR APPLICATIONS
J. MASS SPECTRY, ION PHYS., 8, 1-73, 1972. 824 REFERENCES

- 290 72 155 KAHANE Z EBBIGHAU W VESTERGA P
GAS CHROMATOGRAPHIC ESTIMATION OF URINARY 3-METHOXY-4-HYDROXYFENYLGLYCOL AS TRIACETATE
CLIN. CHIM. ACTA, 38, 413, 1972
- 290 72 156 KAHN JH NICKOL GB CONNER HA
IDENTIFICATION OF VOLATILE COMPONENTS IN VINEGARS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. AGR. FOOD CHEM., 20, 214, 1972
- 290 72 157 KAISER R
1. PROBLEMS OF COUPLING GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY IN LOW CONCENTRATION RANGE. 2.
ULTRATRACE ANALYSIS OF VOLATILE SUBSTANCES WITH GC METHODS IN SUB PPM AND PPB RANGE DOWN TO 10(10
-10) PERCENT
Z. ANAL. CHEM., 252, 119, 1970 AND J. CHROMATOGR. SCI., 9, 227, 1971
- 290 72 158 KALLIO H LINKO RR KAITARAN J
GAS-LIQUID CHROMATOGRAPHIC ANALYSIS OF 2,4-DINITROPHENYLHYDRAZONES OF CARBONYL COMPOUNDS
J. CHROMATOGR., 65, 355, 1972
- 290 72 159 KAMINSKI AM SOBKOWSKI J
KINETICS OF HYDROGEN EXCHANGE REACTION STUDIED BY RADIO GAS CHROMATOGRAPHIC PULSE TECHNIQUE
RADIOCHEM. RADIOANAL. LTRS, 9, 269, 1972
- 290 72 160 KANE DM KARASEK FW
SIMPLE TECHNIQUE FOR COLLECTION OF GAS CHROMATOGRAPHIC FRACTIONS FOR INTRODUCTION TO A MASS
SPECTROMETER
J. CHROMATOGR. SCI., 10, 501, 1972
- 290 72 161 KARASEK FW SMYTHE RJ MCFADDEN WH
1. TRAPPING SYSTEM AND TECHNIQUE FOR INDIRECT GAS CHROMATOGRAPHY/MASS SPECTROMETRY INTERFACING. 2.
FLOW AND VACUUM. KEYS TO GC/MS INTERFACING
ANAL. CHEM., 43, 2008, 1971 AND RES./DEVELOP., 22, NO. 9, 52, 1971
- 290 72 162 KARASEK FW STEPANIK T
1. TRACE STUDIES OF ALCOHOLS IN THE PLASMA CHROMATOGRAPH - MASS SPECTROMETER. 2. QUANTITATIVE
ANALYSIS OF TRICHLOROBENZENES BY GAS CHROMATOGRAPHY
J. CHROMATOGR. SCI., 9, 390, 1971 AND 10, 573, 1972
- 290 72 163 KARASEK FW RASMUSSEN PW
SEPARATION AND IDENTIFICATION OF MULTICOMPONENT MIXTURES USING CENTRI-CHROMATOGRAPHY/MASS
SPECTROMETRY
ANAL. CHEM., 44, 1488, 1972
- 290 72 164 KARASEK FW
REPORT FOR ANALYTICAL CHEMISTS. HOW THE COMBINATION OF GAS CHROMATOGRAPHY AND MASS SPECTROMETRY WITH
COMPUTERIZATION LEADS TO RESULTS GREATER THAN THE SUM OF RESULTS WITH EACH TECHNIQUE ALONE
ANAL. CHEM., 44, NO. 4, 32A, 1972
- 290 72 165 KELLEY JD WOLF CJ
A COMPARISON OF PYROLYSIS GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
J. CHROMATOGR. SCI., 8, 583, 1970
- 290 72 166 KELLY RW
A SIMPLE DEVICE FOR ANALOGUE RECORDING OF THE ABUNDANCE OF SELECTED IONS FROM A COMBINED GAS
CHROMATOGRAPH-MASS SPECTROMETER
J. CHROMATOGR., 71, 337, 1972
- 290 72 167 KEPNER RE MAARSE H
HYDROGENOLYSIS OF TERPENES IN INJECTION PORT OF A GAS CHROMATOGRAPH. 1. MONOTERPENES
J. ORGANOMET. CHEM., 66, 229, 1972
- 290 72 168 KHALIFA S MUMMA RO
GAS CHROMATOGRAPHIC SEPARATION OF AGLYCONE METABOLITES OF CAREARYL
J. AGR. FOOD CHEM., 20, 632, 1972
- 290 72 169 KIENITZ H
1. MASS SPECTROMETRY UNDER THE CONDITIONS OF COUPLING WITH GAS CHROMATOGRAPHIC SEPARATION
PROCEDURES. 2. MASS SPECTROMETRY UNDER THE CONDITIONS OF COUPLING WITH GAS CHROMATOGRAPHY
Z. ANAL. CHEM., 252, 118 AND 350, 1970
- 290 72 170 KIKUCHI T MINURA T MORIWAKI Y
ODOROUS METABOLITE OF AN ACTINOMYCETES BIWAKO-8 STRAIN: IDENTIFICATION OF GEOSMIN BY COMBINED GAS
CHROMATOGRAPHY-MASS SPECTROMETRY
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 652, 1972
- 290 72 171 KLEIN PD HAUMANN JR EISLER WJ
GAS CHROMATOGRAPH-MASS SPECTROMETER-ACCELERATING VOLTAGE ALTERNATOR SYSTEM FOR MEASUREMENT OF STABLE
ISOTOPE RATIOS IN ORGANIC MOLECULES
ANAL. CHEM., 44, 490, 1972
- 290 72 172 KRIVIT W HAMMARSTROM S
IDENTIFICATION AND QUANTITATION OF FREE CERAMIDES IN HUMAN PLATELETS
J. LIPID RES., 13, 525, 1972
- 290 72 173 KUBELKA V MITERA J JANKO J ZACHAR P
1. DETERMINATION OF PRODUCTS FROM THE OXIDATIVE DEHYDROGENATION OF ISOBUTENE BY GAS-LIQUID
CHROMATOGRAPHY-MASS SPECTROMETRY. 2. ANALYSIS OF SPIKE OIL BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. CHROMATOGR., 65, 303, 1972 AND 74, 195, 1972
- 290 72 174 KUWAMOTO T
ANALYTICAL APPLICATION OF METAL CHELATE COMPOUNDS IN GAS CHROMATOGRAPHY
JAPAN ANALYST, 21, 445, 1972
- 290 72 175 LAATIKAI T PELKONEN R VIHKO R KARJALAI O
1. PLASMA STEROIDS IN TWO SUBJECTS WITH OVARIAN ANDROGEN PRODUCING TUMORS, ARRHENOBlastoma AND
GYNANDROBLASTOMA. 2. EXCRETION OF CONJUGATES OF NEUTRAL STEROIDS IN HUMAN BILE DURING LATE
PREGNANCY
J. CLIN. ENDOCRINOL. METABOLISM, 34, 580, 1972 AND ACTA ENDOCRINOL., 69, 775, 1972
- 290 72 176 LAINE RA SWEELEY CC
ANALYSIS OF TRIMETHYLSILYL O-METHYLOXIMES OF CARBOHYDRATES BY COMBINED GAS-LIQUID
CHROMATOGRAPHY-MASS SPECTROMETRY
ANAL. BIOCHEM., 43, 533, 1971

- 290 72 177 LANGER SH PATTON JE
A GAS CHROMATOGRAPHIC REACTOR STUDY OF KINETICS OF DICYCLOPENTADIENE DISSOCIATION
J. PHYS. CHEM., 76, 2159, 1972
- 290 72 178 LARSSON S MIKSCH GE
GASCHROMATOGRAPHISCHE ANALYSE VON LIGNINXYDATIONSPRODUKTEN. 6. 4,4-BIS-ARYLOXYCYCLOHEXA-2,5-DIENON
STRUKTUREN IM LIGNIN
ACTA CHEM. SCAND., 26, 2031, 1972
- 290 72 179 LEE CR POLLITT RJ
ESTIMATION OF GLUTARATE IN URINE USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY WITH AN INTERNAL
ISOTOPIC STANDARD
BIOCHEM. MED., 6, 536, 1972
- 290 72 180 LEE CY CHANG SL KAU ST
CHROMATOGRAPHIC SEPARATION OF VENOM OF BUNGARUS MULTICINCTUS AND CHARACTERIZATION OF ITS COMPONENTS
J. CHROMATOGR., 72, 71, 1972
- 290 72 181 LEE ML BURRELL DC (1)
1. GLC ANALYSIS OF TRACE METALS IN SEAWATER: SOLVENT EXTRACTION TECHNIQUES. 2. FEASIBILITY STUDY OF
THE APPLICATION OF SOLVENT EXTRACTION AND GAS-LIQUID PARTITION CHROMATOGRAPHY TO MARINE TRACE
METAL ANALYSIS
1. RLO-2229-T-1-8, 15P. 2. RLO-2229-T-1-12, THESIS, APRIL 1972, 75P, R-72-5. ALASKA UNIV., COLLEGE,
INST. OF MARINE SCIENCE, NTIS
- 290 72 182 LEPHARDT J BULKIN B
ON-FLY GAS CHROMATOGRAPHY-INFRARED SPECTROSCOPY USING A CHOLESTERIC LIQUID CRYSTAL-EFFLUENT
INTERFACE
AD-765 158/1, HUNTER COLLEGE, NEW YORK, NOV. 1972, 8P
- 290 72 183 LEPPIN E GOLLNICK K
SENSITIZED PHOTOLYSIS OF CARBONYL SULFIDE IN SOLUTION. PHOTOSENSITIZATION BY AROMATIC HYDROCARBONS.
PRODUCTS AND GENERAL PHENOMENA
JACS, 93, 2848, 1971
- 290 72 184 LEVY RL FANTER DL WOLF CJ
TEMPERATURE RISE TIME AND TRUE PYROLYSIS TEMPERATURE IN PULSE MODE PYROLYSIS GAS CHROMATOGRAPHY
ANAL. CHEM., 44, 38, 1972
- 290 72 185 LUKIENYCH JC MAIME GE
GAS CHROMATOGRAPHIC AND MASS SPECTROMETRIC STUDY OF VANILLIN RELATED COMPOUNDS
CHROMATOGRAPHIA, 4, NO. 5, 204, 1971
- 290 72 186 LICHTENSTEIN MA
AMINO ACID ENANTIOMERS IN BIOLOGICAL SYSTEMS: GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC ANALYSES
THESIS, UNIV. OF HOUSTON, TEXAS, 1970. UNIV. MICROFILMS ORDER NO. 70-24,568. DISS. ABS., 318, 6,
J183, 1970
- 290 72 187 LIGHT RJ SAMUELSSON B
IDENTIFICATION OF PROSTAGLANDINS IN GORGONIAN, PLEXAURA HOMOMALLA
EUR. J. BIOCHEM., XX, 232, 1972
- 290 72 188 LUCERO DP
1. DESIGN OF PALLADIUM ALLOY ELECTROLYTIC SEPARATORS FOR GC-MS ANALYSIS SYSTEMS. 2. WATER VAPOR
SENSITIVITY RESPONSE OF HYDROGEN FLAME IONIZATION DETECTORS
J. CHROMATOGR. SCI., 9, 105, 1971 AND 10, 463, 1972
- 290 72 189 MACHE R RIETZSCHEL K GAGEL G
ON-LINE DATA ACQUISITION AND DATA REDUCTION FOR A COUPLED GAS CHROMATOGRAPH AND MASS SPECTROMETER
WITH CALAS
KFK-1396, KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FÜR DATENVERARBEITUNG IN DER
TECHNIK, JULY 1971, 37P IN GERMAN, NTIS
- 290 72 190 MAJER JR
ASSAY OF STEROIDAL DRUGS IN BIOLOGICAL FLUIDS BY INTEGRATED ION CURRENT TECHNIQUE
POSTGRAD. MED. J., SUPPL. (LONDON), 48, 44, 1972
- 290 72 191 MAKINO I SJOVALL J
VERSATILE METHOD OF ANALYSIS OF BILE ACIDS IN PLASMA
ANAL. LETT., 5, 741, 1972
- 290 72 192 MALIKOWSKA M
IDENTIFICATION OF IMPURITIES IN PHTHALIC ANHYDRIDE BY MASS SPECTROMETRY IN CONJUNCTION WITH GAS
CHROMATOGRAPHY
CHEM. ANAL. (WARSAW), 16, 1335, 1971
- 290 72 193 MAMER DA
IDENTIFICATION OF URINARY ACIDS BY COUPLED GAS CHROMATOGRAPHY-MASS SPECTROMETRY
CLIN. CHIM. ACTA, 32, 171-185, 1971
- 290 72 194 MARGOSIS M
ANALYSIS OF ANTIBIOTICS BY GAS CHROMATOGRAPHY. 3. GRISEOFULVIN
J. CHROMATOGR., 70, 73, 1972
- 290 72 195 MARTIN GE CARESS EA
ETHYL ACETATE AND FUSED OIL DETERMINATION IN DISTILLED SPIRITS BY GAS-LIQUID CHROMATOGRAPHY AND
CONFIRMATION BY MASS SPECTROMETRY
J. SCI. FOOD AGR., 22, 587, 1971
- 290 72 196 MATSUBAR T HAYASHI A
IDENTIFICATION OF MOLECULAR SPECIES OF CERAMIDE AMINOETHYLPHOSPHONATE FROM OYSTER ADDUCTOR BY
GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY
BIOCHIM. BIOPHYS. ACTA, 296, 171, 1972
- 290 72 197 MCCORMICK A
IMPROVEMENTS IN OR RELATING TO GAS CHROMATOGRAPHY - MASS SPECTROMETRY
APPLICATION NO. 32336/68, 8TH DEC., 1971, UKAEA LIST OF PUBLS., 194, 7, 1972
- 290 72 198 MCKINNEY JD MATTHEWS HB FISHBEIN L
MAJOR FECAL METABOLITE OF DIELDRIN IN RAT. STRUCTURE AND CHEMISTRY
J. AGR. FOOD CHEM., 20, 597, 1972

- 290 72 199 HERRITT C DIPIETRO C ROBERTSON DH
QUALITATIVE ANALYSIS OF GAS CHROMATOGRAPHIC ELUATES BY MEANS OF VAPOR PHASE PYROLYSIS. 1. SMALL
MOLECULE PYROGRAMS. 2. CLASSIFICATION BY SET THEORY
ANAL. CHEM., 44, 57 AND 60, 1972
- 290 72 200 MIET C FAWAZ F CHOIX M
ANALYSIS OF OINTMENTS, OILS, AND WAXES. 12. STUDY OF WAX (FIBER WAX) OF ALFA PLANT, STIPA
TENACISSIMA L. GRAMINEAE, BY GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
ANN. PHARM. FRANCAISES, 30, 263, 1972
- 290 72 201 MIEURE JP
REMOTELY OPERATED HIGH TEMPERATURE VENT VALVE FOR A GAS CHROMATOGRAPH/MASS SPECTROMETER
ANAL. CHEM., 44, 1332, 1972
- 290 72 202 MILLER A SCANLAN RA LEE JS
1. VOLATILE COMPOUNDS PRODUCED IN GROUND MUSCLE TISSUE OF CANARY ROCKFISH (SEBASTES PINNIG) STORED
ON ICE. 2. QUANTITATIVE AND SELECTIVE GAS CHROMATOGRAPHIC ANALYSIS OF DIMETHYL AND TRIMETHYLAMINE
IN FISH
J. FISH. RES. BOARD CAN., 29, 1125, 1972 AND J. AGR. FOOD CHEM., 20, 709, 1972
- 290 72 203 MILLION JG PAPPAS WS WEBER CW
INSTRUMENTATION AND TECHNIQUES FOR CORROSIVE GAS CHROMATOGRAPHY
K-L-6303. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., SEPT. 1972. 20P. CONF-721025-S. NTIS. FROM 16TH
CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 24, 1972
- 290 72 204 MIN OBS CHANG SS
ISOLATION AND IDENTIFICATION OF TRANS-3,5-DIMETHOXYSTILBENE FROM HIGH QUALITY TALL OIL FATTY ACIDS
BY LIQUID CHROMATOGRAPHY AND MASS SPECTROMETRY. SULFATE PULF. BYPRODUCTS
J. AMER. OIL CHEM. SOC., 49, 675, 1972
- 290 72 205 MOFFAT AC HORNING EC MATIN SB
PERFLUOROBENZENE DERIVATIVES AS DERIVATISING AGENTS FOR GAS CHROMATOGRAPHY OF PRIMARY AND SECONDARY
AMINES USING ELECTRON CAPTURE DETECTION
J. ORGANOMET. CHEM., 66, 255, 1972
- 290 72 206 MOMOSE A TSUJI T
STUDIES ON DOPING TEST BY GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY. 1. DETECTION AND
IDENTIFICATION OF SULPYRINE, AMINOPYRINE, AND THEIR METABOLITES IN HORSE URINE. 2. DETECTION AND
IDENTIFICATION OF ANTIPYRINE AND ITS METABOLITES IN HORSE URINE
J. PHARM. SOC. JAPAN, 92, 187 AND 193, 1972
- 290 72 207 MON TR
PREPARATION OF LARGE BORE, OPEN TUBULAR COLUMNS FOR GC
RES./DEVELOP., 22, NO. 12, 14, 1971
- 290 72 208 MORITA H
IDENTIFICATION OF PHENOLIC ACIDS BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. CHROMATOGR., 71, 149, 1972
- 290 72 209 MULLER-STOCK A
GASCHROMATOGRAPHISCHE TRENNUNG DES NATURLICHEN CAPSAICINOID GEMISCHES UND IDENTIFIZIERUNG MIT HILFE
DER MASSEN UND NMR SPEKTREN. 1. STUDIEN UBER DIE INHALTSSTOFFE VON CAPSICUM
PHARM. ACTA HELV., 47, 7, 1972
- 290 72 210 MURATA T TAKAHASHI S
ANALYSIS OF BHC ISOMERS BY GAS CHROMATOGRAPH-MASS SPECTROMETER COMBINED SYSTEM. IDENTIFICATION OF

BETA-BHC
MASS SPECTRY. JAPAN, 20, 155, 1972 IN ENGLISH
- 290 72 211 MURRMANN RP
COMPOSITION AND MASS SPECTRA OF IMPURITIES IN MILITARY GRADE TNT VAPOR
AD-725 474. COLD REGIONS RESEARCH AND ENGINEERING LAB., HANDOVER, N. H. 21P
- 290 72 212 NAKAMURA GR NOGUCHI TT JACKSON D
FORENSIC IDENTIFICATION OF HEROIN IN ILLEGAL PREPARATIONS USING INTEGRATED GAS CHROMATOGRAPHY AND
MASS SPECTROMETRY
ANAL. CHEM., 44, 408, 1972
- 290 72 213 NARASIMHACHARI N VOUROIS P
1. GAS-LIQUID CHROMATOGRAPHY AND MASS SPECTROMETRY OF BIOGENIC AMINES AND AMPHETAMINES AS THEIR
ISOTHIOCYANATE DERIVATIVES. 2. 3- AND 4-O-METHYL ETHERS OF COPAMINE: GAS-LIQUID CHROMATOGRAPHY AND
MASS SPECTROMETRIC STUDIES OF THEIR ISOTHIOCYANATE DERIVATIVES
ANAL. BIOCHEM., 45, 154, 1972 AND J. CHROMATOGR., 70, 135, 1972
- 290 72 214 NEFF WE PRYDE EH SELKE E
CROSSLINKED POLY(ESTER-ACETALS) AS POLAR, STATIONARY PHASES FOR GAS CHROMATOGRAPHY AT
SUBAMBIENT-MODERATE TEMPERATURES
J. CHROMATOGR. SCI., 10, 512, 1972
- 290 72 215 NEWTON AS
CONCENTRATION OF HIGH BOILING IMPURITIES FROM LOW BOILING COMPOUNDS BY REVERSE FLOW GAS
CHROMATOGRAPHY
LBL-283. CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., DEC. 1971. 20P. NTIS
- 290 72 216 NISHIMURA H ASAH I A FUJIWARA K MIZUTANI J OBATA Y
CHANGES IN FLAVOR COMPONENTS OF ONION INDUCED BY GAMMA IRRADIATION
AGR. BIOL. CHEM. (TOKYO), 35, 1831, 1971
- 290 72 217 NO AUTHOR
BIOCHEMISTRY
PP 55-75 OF ANL-7770. ARGONNE NATIONAL LAB., ILL., IN DIVISION OF BIOLOGICAL AND MEDICAL RESEARCH
ANNUAL REPORT, 1970
- 290 72 218 NO AUTHOR
3RD RUSSIAN-ITALIAN SYMPOSIUM ON CHROMATOGRAPHY, TBILISI, USSR, OCTOBER 26-29, 1970
J. CHROMATOGR., 58, NO. 1, 1-135, 1971. CONF-701051, 16 PAPERS
- 290 72 219 NO AUTHOR
GAS CHROMATOGRAPH SYSTEM FOR SODIUM COVER GAS SERVICE
RDT-C-12-1-T(5-72). DIVISION OF REACTOR DEVELOPMENT AND TECHNOLOGY, AEC, WASHINGTON, D.C., MAY 1972.
16P

- 290 72 220 NO AUTHOR
THE SEPARATION AND IDENTIFICATION OF STEROIDS BY GC/MS
AEI, SMO 1803, JUNE 1972
- 290 72 221 NO AUTHOR
ANALYZING MAPLE FLAVOR. GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
AGR. RES., 20, NO. 2, 13, 1971
- 290 72 222 NO AUTHOR
SHOULD GAS CHROMATOGRAPHS BE COUPLED TO MASS SPECTROMETERS
CHEM. IND. (LONDON), P592, 1971
- 290 72 223 NO AUTHOR
A NEW INTERFACE ENHANCES THE USEFULNESS OF THE 990 GAS CHROMATOGRAPH/RMS-4 MASS SPECTROMETER
COMBINATION
INSTRUM. NEWS, 21, NO. 1, 12, 1970
- 290 72 224 NO AUTHOR
RAPID ON-LINE DATA PROCESSING SYSTEM FOR GC-MS
JEOL NEWS, 9A, NO. 2, 15, 1971
- 290 72 225 NO AUTHOR
FINGERPRINTING THE POLLUTERS
MAR. ENGRS. REV., P19, 1972 AND BRIT. TECH. IND., 11, NO. 4, 60, 1972
- 290 72 226 NOVOTNY M SEGURA R ZLATKIS A
HIGH TEMPERATURE GAS CHROMATOGRAPHIC SEPARATIONS USING GLASS CAPILLARY COLUMNS AND CARBORANE
STATIONARY PHASES
ANAL. CHEM., 44, 9, 1972
- 290 72 227 NOVOTNY M JANAK J
ANALYSIS OF STEROID COMPOUNDS BY GAS CHROMATOGRAPHY
CHEM. LISTY, 66, 693, 1972
- 290 72 228 OBERMANN H
ZUR LOKALISIERUNG FUNKTIONELLER GRUPPEN IN STEROIDEN MIT HILFE DER MASSENSPEKTROMETRIE. 3. 3.11-
DIHYDROXYANDROSTAN-17-ONE
TETRAEDRON, 27, 1101, 1971
- 290 72 229 USERSI F
DEVELOPMENT OF METHODS FOR DETECTING AND MEASURING VOLATILE HUMAN EFFLUENTS. GC/MS
AD-874 402, EDGEWOOD ARSENAL, MARYLAND, 77P
- 290 72 230 OLDFIELD E
GAS CHROMATOGRAPHY-MASS SPECTROMETRY OF BIOSYNTHETIC (1)H-(2)H HYBRID FATTY ACID METHYL ESTERS
J. CHEM. SOC., CHEM. COMMUN., P719, 1972
- 290 72 231 OSWALD ED FISHBEIN L CORBETT DJ
1. METABOLISM OF NATURALLY OCCURRING PROPENYLBENZENE DERIVATIVES. II. SEPARATION AND IDENTIFICATION
OF TERTIARY AMINOPROPIOPHENONES BY COMBINED GAS-LIQUID CHROMATOGRAPHY AND CHEMICAL IONIZATION MASS
SPECTROMETRY. 2. CHEMICAL LABILITY OF TERTIARY AMINOPROPIOPHENONES OF EUGENOL AS CHARACTERIZED BY
COMBINED GAS-LIQUID CHROMATOGRAPHY AND CHEMICAL IONIZATION MASS SPECTROMETRY
J. CHROMATOGR., 73, 43 AND 59, 1972
- 290 72 232 PAPA LJ TURNER LP
CHROMATOGRAPHIC DETERMINATION OF CARBONYL COMPOUNDS AS THEIR 2,4-DINITROPHENYLHYDRAZONES. 1. GAS
CHROMATOGRAPHY
J. CHROMATOGR. SCI., 10, 744, 1972
- 290 72 233 PARKER DR BREWER LW
TECHNIQUES FOR REMOTE SAMPLING OF GASES
AMER. IND. HYG. ASSOC. J., 32, 475, 1971
- 290 72 234 PAULING L ROBINSON AB TERANISH R
QUANTITATIVE ANALYSIS OF URINE VAPOR AND BREATH BY GAS-LIQUID PARTITION CHROMATOGRAPHY
PROC. NAT. ACAD. SCI. U.S.A., 69, 1008, 1972
- 290 72 235 PAWELCZYK E KNITTER B
ASSAYS OF DECAY PRODUCTS OF DRUGS. 28. CHROMATOGRAPHIC-SPECTROPHOTOMETRIC DETERMINATION OF
COMPONENTS OF PABIALGINUM LIQUIDUM BESIDES ITS DECAY PRODUCTS
ACTA POL. PHARM., 27, 455, 1970 IN POLISH
- 290 72 236 PELLERIN F ELMAKKAW H
IDENTIFICATION AND ASSAY OF VARIOUS ANTIHISTAMINIC AND MONOAMINE OXIDASE INHIBITOR DRUGS BY GAS
CHROMATOGRAPHY AND ULTRAVIOLET SPECTROPHOTOMETRY
ANN. PHARM. FRANCAISES, 29, 421, 1971
- 290 72 237 PENSABEN JW FIDDLER W DODLEY CJ
SPECTRAL AND GAS CHROMATOGRAPHIC CHARACTERISTICS OF SOME N-NITROSAMINES
J. AGR. FOOD CHEM., 20, 274, 1972
- 290 72 238 PEPPER CORN MA GOLDMAN P
CAFFEIC ACID METABOLISM BY GNOTOBIONIC RATS AND THEIR INTESTINAL BACTERIA (O-METHYLATION, URINARY
METABOLITES, GAS-LIQUID CHROMATOGRAPHY, MASS SPECTROSCOPY)
PROC. NAT. ACAD. SCI. U.S.A., 69, 1413, 1972
- 290 72 239 PEREIRA WE HALPERN B
STERIC ANALYSIS OF ALIPHATIC AMINES WITH TWO ASYMMETRIC CENTERS BY GAS-LIQUID CHROMATOGRAPHY OF
DIASSTEREISOMERIC AMIDES
AUSTRALIAN J. CHEM., 25, 667, 1972
- 290 72 240 PETROV AA KOLESNIK LP
GAS CHROMATOGRAPHIC ANALYSIS OF MULTICOMPONENT MIXTURES OF HYDROCARBONS
ZH. ANAL. KHIM., 27, 1050, 1972 IN RUSSIAN
- 290 72 241 PETTENSEN JE JELLUM E ELDJARN L
1. OCCURRENCE OF ADIPIC AND SUBERIC ACID IN URINE FROM KETOTIC PATIENTS. 2. IDENTIFICATION AND
METABOLIC ORIGIN OF 2-FUROYLGLYCINE AND 2,5-FURANDICARBOXYLIC ACID IN HUMAN URINE
CLIN. CHIM. ACTA, 38, 17, 1972 AND 41, 199, 1972

- 290 72 242 POLITO AJ
STUDIES ON THE CHEMISTRY AND BIOSYNTHESIS OF SPHINGOLIPID BASES
THESIS. UNIV. OF PITTSBURGH, PENN., 1970. UNIV. MICROFILMS ORDER NO. 70-17,064. DISS. ABS., 318, '3.
1061, 1970
- 290 72 243 RABINOVICH AS SAKHAROV VM SKOP SL
1. CALCULATION OF IDENTIFICATION PARAMETERS IN CHROMATO-MASS SPECTROMETRY. 2. CALCULATION OF
PARAMETERS FOR IDENTIFICATION OF KETONES BY CHROMATO-MASS SPECTROMETRY
ZH. ANAL. KHIM., 27, 666, 1972 AND IND. LAB. USSR (ENGL. TRANS.), 38, 1638, 1972 TRANSLATED FROM
ZAVOD. LAB., 38, 1299, 1972
- 290 72 244 RAFALSON AE
EXPERIENCE WITH OPERATIONS OF THE MKH1307M CHROMATO-MASS SPECTROMETER WITH AN OIL VAPOR SYSTEM OF
EVACUATION
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 1443, 1971. TRANSLATED FROM PRIB. TEKH. EKSP., NO. 5,
154, 1971
- 290 72 245 RAINEY WT BUTTS WC GUERIN MR SNYDER F
COMBINED GAS CHROMATOGRAPHY-MASS SPECTROMETRY FOR THE IDENTIFICATION OF COMPOUNDS OF BIOLOGICAL
INTEREST
CONF-711024-1. OAK RIDGE NATIONAL LAB. AND OAK RIDGE ASSOCIATED UNIVERSITIES, INC., TENN., 1971.
20P. FROM 15TH CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, OAK RIDGE, TENN., OCT.
12, 1971
- 290 72 246 RAMANATHAN PS SRIVASTAVA OP VENKATESWARLU C
GAS CHROMATOGRAPHIC SEPARATION OF O₂, O₂, AND N₂ IN HELIUM AND THEIR DETERMINATION
BARC-574. BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1971. 14P. NTIS
- 290 72 247 RAD MKG PERKINS EG
IDENTIFICATION AND ESTIMATION OF TOCOPHEROLS AND TOCOTRIENENOLS IN VEGETABLE OILS USING GAS
CHROMATOGRAPHY-MASS SPECTROMETRY
J. AGR. FOOD CHEM., 20, 240, 1972
- 290 72 248 REEVE JA
QUADRUPOLE MASS FILTER AS A SENSITIVE AND SELECTIVE DETECTOR FOR DIRECT GAS CHROMATOGRAPHIC
COUPLING EMPLOYING A HIGH CAPACITY SAMPLING SYSTEM
THESIS. UNIV. OF ILLINOIS, URBANA-CHAMPAIGN, UNIV. MICROFILMS ORDER NO. 72-12,351. DISS. ABS., 328,
10, 5664, 1972
- 290 72 249 REIMENDA R SJOVALL J
ANALYSIS OF STEROIDS BY OFF-LINE COMPUTERIZED GAS CHROMATOGRAPHY-MASS SPECTROMETRY
ANAL. CHEM., 44, 21, 1972
- 290 72 250 REZL V KAPLANDOV B JANAK J
IDENTIFICATION OF ORGANIC SUBSTANCES BY MEANS OF DIRECT COUPLING OF GAS CHROMATOGRAPHY WITH
ELEMENTARY ANALYSIS. 1. ANALYSIS OF HYDROCARBONS
J. CHROMATOGR., 65, 47, 1972
- 290 72 251 RING D
PREBIOTIC SYNTHESIS OF HYDROPHOBIC AND PROTEIN AMINO ACIDS
PROC. NAT. ACAD. SCI. U.S.A., 69, 765, 1972
- 290 72 252 ROCHEK JE RAINEY WT
IDENTIFICATION AND BIOCHEMICAL SIGNIFICANCE OF SUBSTITUTED FURANS IN HUMAN URINE
CLIN. CHEM., 18, 821, 1972
- 290 72 253 RONCUCCI R SIMON MJ GILLET C LAMBELIN G KAISIN M
CHARACTERIZATION OF ALICLOFENAC METABOLITES IN VARIOUS ANIMAL SPECIES BY GC AND MS
PP 431-49 OF PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON GAS CHROMATOGRAPHY AND MASS SPECTROMETRY,
ISLE OF ELBA, 1972. FRIGERIO, A. (ED.)
- 290 72 254 ROSS WD SIEVERS RE
ENVIRONMENTAL AIR ANALYSIS FOR ULTRATRACE CONCENTRATIONS OF BERYLLIUM BY GAS CHROMATOGRAPHY
ENVIRON. SCI. TECHNOL., 6, 155, 1972
- 290 72 255 ROTZSCHE H
GAS CHROMATOGRAPHIC INVESTIGATIONS OF AGGRESSIVE AND SENSITIVE SUBSTANCES
CHIMIA (AARAU), SUPPL., 206-13, 1970 IN GERMAN. FROM 5TH INTERNATIONAL SYMPOSIUM ON SEPARATION
METHODS: COLUMN CHROMATOGRAPHY, LAUSANNE, SWITZERLAND, OCT. 7, 1969. CONF-691074
- 290 72 256 RUMPF G
GAS CHROMATOGRAPHIC ESTIMATION OF SOLUBLE CONSTITUENTS OF POTATOES TREATED BY IRRADIATION AND WITH
CHEMICAL SPROUT INHIBITORS
POTATO RES., 15, 236, 1972 IN GERMAN
- 290 72 257 RUOKONEN A LAATIKAI T LAITINEN EA
FREE AND SULFATE CONJUGATED NEUTRAL STEROIDS IN HUMAN TESTIS TISSUE
BIOCHEM., 11, 1411, 1972
- 290 72 258 RYDBERG U BUIJTEN JC
DETERMINATION AND IDENTIFICATION OF PYRAZOLE DERIVATIVES BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. CHROMATOGR., 64, 170, 1972
- 290 72 259 SACH K SABIN K
COMBINED GLC AND HIGH RESOLUTION MASS SPECTROSCOPIC ANALYSIS OF DIPHENYLHYDANTOIN
J. PHARM. SCI., 60, 1216, 1971
- 290 72 260 SAINT JOHN LE LISK OJ
EXCRETION OF HEXACHLOROPHENE IN DAIRY COW
J. AGR. FOOD CHEM., 20, 389, 1972
- 290 72 261 SAMUELSSON K
SEPARATION AND IDENTIFICATION OF CEREBROSIDES IN CEREBROSPINAL FLUID BY GAS CHROMATOGRAPHY - MASS
SPECTROMETRY
SCAND. J. CLIN. LAB. INVEST., 27, 381, 1971
- 290 72 262 SCHERZ H
EVALUATION OF THE STRUCTURE OF THE DEOXYCOMPOUNDS FOUND IN IRRADIATED STARCH AND DETERMINATION OF
THESE PRODUCTS IN IRRADIATED WHEAT AND WHEAT FLOUR
PP 27-36 OF EUR-4695. PROGRESS REPORT, FEB. 1968 - OCT. 1970. BUNDESFORSCHUNGSANSTALT FUER
LEBENSMITTELFRISSHALTUNG, KARLSRUHE, GERMANY. FROM THE IDENTIFICATION OF IRRADIATED FOODSTUFFS
CONFERENCE, LUXEMBOURG, OCT. 27, 1970

- 290 72 263 SCHDENGOLD DM STEWART WH
SIMPLE DEVICE FOR THE INTRODUCTION OF MASS CALIBRANT INTO A GAS CHROMATOGRAPH-MASS SPECTROMETER
ANAL. CHEM., 44, 884, 1972
- 290 72 264 SCHULZE P KAISER KH
DIRECT COUPLING OF HIGH RESOLUTION GLASS OPEN TUBULAR COLUMNS TO A MASS SPECTROMETER
CHROMATOGRAPHIA, 4, NO. 9, 381, 1971
- 290 72 265 SCHUY KD MUNNEMAN DH
KOMBINIERTE GAS CHROMATOGRAPHIE/MASSENSPEKTROMETRIE GRUNDLAGEN DES VERFAHRENS UND BEDEUTUNG DER
KOPPLUNG IN DER CHEMIE
CHEM.-ZTG., CHEM. APP., 95, 633, 1971
- 290 72 266 SHAW DG
DISCRIMINATION BETWEEN PCB AND DDT RESIDUES BY A GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC TECHNIQUE
BULL. ENVIRON. CONTAM. TOXICOL., 8, NO. 4, 208, 1972
- 290 72 267 SHEPHERD D
GAS CHROMATOGRAPHIC SYSTEM TO FACILITATE MASS SPECTROMETRIC ANALYSIS OF MINOR DEUTERATED COMPONENTS
IN A GAS MIXTURE
PROC. SOC. ANAL. CHEM., 7, NO. 1, 8, 1970
- 290 72 268 SHERMA J ZWEIG G
ANALYTICAL METHODS FOR PESTICIDES AND PLANT GROWTH REGULATORS. VOLUME 6. GAS CHROMATOGRAPHIC
ANALYSES
BOOK. ACADEMIC PRESS, NEW YORK, 1972, 784P
- 290 72 269 SHIGEHARA Y OZAKI A
GAS CHROMATOGRAPHIC DETERMINATION OF REVERSIBLE ADSORPTION OF HYDROGEN. 10. GAS CHROMATOGRAPHIC
DETERMINATION OF REVERSIBLE ADSORPTION OF HYDROGEN OVER CHROMIA. 11. REVERSIBLE ADSORPTION OF
HYDROGEN OVER SOME METAL OXIDES
NIPPON KAGAKU ZASSHI (J. CHEM. SOC. JAPAN, PURE CHEM. SECT.), 92, NO. 4, 297, 1971 IN JAPANESE AND
BULL. CHEM. SOC. JAPAN, 45, 634, 1972
- 290 72 270 SHIMOI SHI Y
GAS CHROMATOGRAPHIC DETERMINATION OF ULTRAMICRO AMOUNTS OF SELENIUM IN PURE TELLURIUM METAL
BULL. CHEM. SOC. JAPAN, 44, 3370, 1971
- 290 72 271 SIECK RF RICHARD JJ IVERSEN K BANKS CV
DETERMINATION OF URANYL AND THORIUM(IV) BY GAS CHROMATOGRAPHY OF VOLATILE MIXED LIGAND COMPLEXES
ANAL. CHEM., 43, 913, 1971
- 290 72 272 SIEKMANN L SPIEGELH B BREUER H
DETERMINATION OF ALDOSTERONE IN HUMAN PLASMA BY USING COMBINED GAS CHROMATOGRAPHY/MASS SPECTROMETRY
Z. ANAL. CHEM., 261, 377, 1972 IN GERMAN
- 290 72 273 SINGH SP KAGAN J
PHOTOCHEMICAL DECARBOXYLATION OF SODIUM GLYCIDATES. MASS SPECTRAL DATA/QLC ANALYSIS
J. ORG. CHEM., 35, 3839, 1970
- 290 72 274 SINYAK K HEDEN G RYHAGE R
GAS CHROMATOGRAPHY OF LIPIDS IN ANIMAL CELLS AND POTENTIAL OF TECHNIQUE FOR IDENTIFICATION OF
LABORATORY CELL LINES
VOP. VIRUSOL., NO. 2, 228, 1972
- 290 72 275 SISSONS D WELTI D

STRUCTURAL IDENTIFICATION OF POLYCHLORINATED BIPHENYLS IN COMMERCIAL MIXTURES BY GAS-LIQUID
CHROMATOGRAPHY, NUCLEAR MAGNETIC RESONANCE, AND MASS SPECTROSCOPY
J. CHROMATOGR., 60, 15, 1971
- 290 72 276 SKREDE S STORMME JH STOKKE O LIE SO ELDJARN L
FATAL CONGENITAL LACTIC ACIDOSIS IN TWO SIBLINGS. 2. BIOCHEMICAL STUDIES IN VIVO AND IN VITRO
ACTA PAEDIAT. SCAND., 60, 138, 1971
- 290 72 277 SMITH RV
APPLICATIONS OF ELECTRON CAPTURE DETECTION IN GC
AMER. LAB., 3, NO. 11, 58, 1971, 130 REFERENCES
- 290 72 278 GIVON NG
GAS CHROMATOGRAPH/MASS SPECTROMETER SYSTEM EMPLOYING AN ION PUMPED MASS SPECTROMETER
J. CHROMATOGR. SCI., 10, 487, 1972
- 290 72 279 SOJAK L HRIVNAK J KRUPCIK J
RELATION BETWEEN RETENTION INDICES AND BOILING POINTS OF HYDROCARBONS DIFFERING SLIGHTLY IN THEIR
VAPOR PRESSURES
ANAL. CHEM., 44, 1701, 1972
- 290 72 280 SOKOLOV DN
ANALYTICAL GAS CHROMATOGRAPHY OF METAL CHELATES
ZH. ANAL. KHIM., 27, 993, 1972, 41 REFERENCES
- 290 72 281 STEVENS KL JUND L MANNERS G
TRANSFORMATION OF CENAMOL IN AQUEOUS SOLUTIONS
TETRAHEDRON, 28, 1939, 1972
- 290 72 282 STILLWELL WG
1. CHARACTERIZATION OF METABOLITES OF STEROID CONTRACEPTIVES BY GAS CHROMATOGRAPHY AND MASS
SPECTROMETRY. 2. DETERMINATION OF NORETHISTERONE IN PLASMA: A COMPARISON OF GAS CHROMATOGRAPHIC
AND GAS CHROMATOGRAPHIC-MASS SPECTROMETRIC METHODS
1. J. STEROID BIOCHEM., 3, 699, 1972, 2. PRESENTED AT SOUTHWEST REGIONAL MEETING OF AMERICAN
CHEMICAL SOCIETY, BATON ROUGE, LA., DEC. 6-8, 1972
- 290 72 283 STOKKE O ELDJARN L JELLUM E PANDE H WAALER PE
1. GAS CHROMATOGRAPHY - MASS SPECTROMETRY. APPLICATION IN THE DIAGNOSIS OF INBORN ERRORS OF
METABOLISM. 2. BETA-METHYLCROTONYL-COA CARBOXYLASE DEFICIENCY: A NEW METABOLIC ERROR IN LEUCINE
DEGRADATION
SCAND. J. CLIN. LAB. INVEST., 27, SUPPL. 118, 35, 1971 AND PEDIATRICS, 42, 726, 1972
- 290 72 284 STRONG JM ATKINSON AJ
SIMULTANEOUS MEASUREMENT OF PLASMA CONCENTRATIONS OF LIDOCAINE AND ITS DESETHYLATED METABOLITE BY
MASS FRAGMENTOMETRY
ANAL. CHEM., 44, 2287, 1972

- 290 72 285 TAKEUCHI T MATSUMOTO K SUGIURA M
QUANTITATIVE ANALYSIS OF AN ORGANIC MICROIMPURITY BY GC/MS
MASS SPECTRY. JAPAN. 19. 75. 1971 IN JAPANESE
- 290 72 286 TANAKA K YU GM
METHOD FOR SEPARATE DETERMINATION OF ISOVALERATE AND ALPHA METHYLBUTYRATE BY USE OF GLC-MASS
SPECTROMETER
CLIN. CHIM. ACTA. 43. 151. 1972
- 290 72 287 TANTSIREV GD KOZLOV ST
A CHROMATO-MASS SPECTROMETRIC METHOD OF ANALYSIS WITH IDENTIFICATION OF SUBSTANCES BY CERTAIN MOST
INTENSIVE LINES OF THE MASS SPECTRUM
ZH. ANAL. KHIM.. 26. 677. 1971 IN RUSSIAN
- 290 72 288 TERANISH R NON TR ROBINSON AB
GAS CHROMATOGRAPHY OF VOLATILES FROM BREATH AND URINE
ANAL. CHEM.. 44. 18. 1972
- 290 72 289 THENOT JP HORNING EC STAFFORD M
1. MO-TMS DERIVATIVES OF HUMAN URINARY STEROIDS FOR GC AND GC-MS STUDIES. 2. FATTY ACID
ESTERIFICATION WITH N,N-DIMETHYLFORMAMIDE DIALKYL ACETALS FOR GC ANALYSIS. 3. AMINO ACID
N-DIMETHYLAMINOMETHYLENE ALKYL ESTERS. NEW DERIVATIVES FOR GC AND GC-MS STUDIES
ANAL. LTRS. 5. 21. 217. AND 519. 1972
- 290 72 290 THENOT JP HORNING EC
1. BEHAVIOR OF 3-KETOSTEROID METHOXIMES. APPLICATION TO GC STUDIES OF ADRENOCORTICAL STEROID HORMONE
MO-TMS DERIVATIVES. 2. GC-MS DERIVATIZATION STUDIES: THE FORMATION OF DEXAMETHASONE MO-TMS
ANAL. LTRS. 5. 801 AND 905. 1972
- 290 72 291 THOMPSON CJ GOODE CN
MODIFICATION OF A GAS CHROMATOGRAPH-MASS SPECTROMETER TO ACCEPT TWO GAS CHROMATOGRAPHIC COLUMNS
SCI. TOOLS. LKE INSTRUMENT J.. 19. NO. 2-3. 33. 1972
- 290 72 292 TINDELL GL WALLE T GAFFNEY TE
RAT LIVER MICROSOMAL METABOLISM OF PROPRANOLOL: IDENTIFICATION OF SEVEN METABOLITES BY GAS
CHROMATOGRAPHY-MASS SPECTROMETRY
LIFE SCI.. PART II. 11. 1029. 1972
- 290 72 293 TSANG PHS
OTHER CONCEPTS FOR LIFE DETECTION ON MARS
RES./DEVELOP.. 23. NO. 5. 31. 1972
- 290 72 294 TSANG W WASKIK SP
APPLICATION OF ISOTOPE DILUTION GLC TECHNIQUES TO AIR POLLUTION ANALYSIS
COM-72-5012. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD, VA.
22151. 1971
- 290 72 295 TSUDA T OJIKI Y IZUDA M
COMBINATION OF GAS CHROMATOGRAPHY AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY
J. CHROMATOGR.. 69. 194. 1972
- 290 72 296 TYFEZYND J
CHROMATOGRAPHIC STUDIES OF COMPOUNDS CONTAINING CARBONYL GROUP. 1. BROMOKETOESTERS AND BROMOKETONES
ACTA POL. PHARM.. 29. 159. 1972
- 290 72 297 UCHIYAMA M
- RADIO GAS CHROMATOGRAPHY (REVIEW)
RADIOISOTOPES (TOKYO). 19. 551. 1970 IN JAPANESE
- 290 72 298 IITSUNOMIYA K SHICEMATSU T
1. GAS CHROMATOGRAPHY OF RARE EARTH PIVALOYLTRIFLUOROACETONE ADDUCTS WITH TRI-N-BUTYL PHOSPHATE AND
TRI-N-OCTYLPHOSPHINE OXIDE. 2. THERMOGRAVIMETRIC AND GAS CHROMATOGRAPHIC STUDY OF NEODYMIUM,
GADOLINIUM, AND ERBIUM BETA-DIKETONE CHELATES. 3. GAS CHROMATOGRAPHY OF RARE EARTH CHELATES OF
ISOBUTYRYLPIVALYLMETHANE
BJLL. CHEM. SOC. JAPAN. 45. 303. 1972. ANAL. CHIM. ACTA. 58. 411. 1972. AND ANAL. CHIM. ACTA. 59.
147. 1972
- 290 72 299 VAN DEN HEUVEL WJA BUHS RP CARLIN JR
1. MASS SPECTROMETRY OF METHYLCYCLOSILOXANES. SOURCES OF ANOMALOUS PEAKS IN GAS-LIQUID
CHROMATOGRAPHY. 2. COMBINED GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY STUDY OF CAMBENDAZOLE AND
RELATED COMPOUNDS
ANAL. LTRS. 5. 285. 1972 AND ANAL. CHEM.. 44. 14. 1972
- 290 72 300 VAN HOOK WA
ISOTOPE FRACTIONATION DURING GAS CHROMATOGRAPHIC SEPARATIONS: COMMENT
J. CHROMATOGR. SCI.. 10. 191. 1972
- 290 72 301 VESSMAN J FREIJ G STROMBER S
DETERMINATION OF OXAZEPAM IN SERUM AND URINE BY ELECTRON CAPTURE GAS CHROMATOGRAPHY
ACTA PHARM. SUEC.. 9. 447. 1972
- 290 72 302 VETTER W
PYRROLIDIDE ALS DERIVAT FUR DIE STRUKTURAUFKLARUNG ALIPHATISCHER UND ALICYCLISCHER CARBONSÄUREN
MITTELS MASSENSPEKTROMETRIE
HELV. CHIM. ACTA. 54. 1599. 1971
- 290 72 303 VIDAL MA GUIDOCHON G
ANALYSIS OF COMPLEX ORGANIC COMPOUNDS BY GAS-SOLID CHROMATOGRAPHY ON VARIOUS PHTHALOCYANINES
J. CHROMATOGR. SCI.. 9. NO. 11. XXX. 1971
- 290 72 304 VINKO R
GAS-LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY IN THE ANALYSIS OF STEROID HORMONES
SCAND. J. CLIN. LAB. INVEST.. 37. SUPPL. 118. 31. 1971
- 290 72 305 VLASAKOVA V BENES J PARIZEK J
APPLICATION OF GAS CHROMATOGRAPHY FOR THE ANALYSIS OF TRACE AMOUNTS OF VOLATILE SE(75) METABOLITES
IN EXPIRED AIR
RADIOCHEM. RADIOANAL. LTRS. 10. 251. 1972

- 290 72 306 VREE TB BREIMER DD VAN GINNE CA
IDENTIFICATION OF CANNABICINOL WITH A PENTYL OR PROPYL SIDE CHAIN BY MEANS OF COMBINED GAS
CHROMATOGRAPHY-MASS SPECTROMETRY
J. CHROMATOGR., 74, 124, 1972
- 290 72 307 VYKHREST NI LIZOGUB AP SLUPITSKYA
MODIFICATION OF MI-1305 MASS SPECTROMETER FOR OPERATION AS A CHROMATOGRAPH DETECTOR
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 200, 1971
- 290 72 308 WALLE T ISHIZAKI T GAFFNEY TE
ISOPROPYLAMINE, A BIOLOGICALLY ACTIVE DEAMINATION PRODUCT OF PROPRANOLOL IN DOGS: IDENTIFICATION OF
DEUTERATED AND UNLABELED ISOPROPYLAMINE BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY
J. PHARMACOL. EXP. THERAPEUTICS, 183, NO. 3, 508, 1972
- 290 72 309 WALTON TJ KOLATTUKUDY PE
DETERMINATION OF THE STRUCTURE OF CUTIN MONOMERS BY A NOVEL DEPOLYMERIZATION PROCEDURE AND COMBINED
GAS CHROMATOGRAPHY AND MASS SPECTROMETRY
BIOCHEM., 11, 1885, 1972
- 290 72 310 WARNER OK ATTALLA A
DETERMINATION OF DI-N-BUTYLAMINE AND TRIETHYLAMINE BY GAS-LIQUID CHROMATOGRAPHY, NUCLEAR MAGNETIC
RESONANCE, AND INFRARED SPECTROSCOPY
MLM-1928, MOUNC LAB., MIAMISBURG, OHIO, AUG. 1972, 15P. NTIS
- 290 72 311 WATANABE K SATO Y
GAS CHROMATOGRAPHIC AND MASS SPECTRAL ANALYSES OF HEATED FLAVOR COMPOUNDS OF BEEF FATS
AGR. BIOL. CHEM. (TOKYO), 35, 756, 1971
- 290 72 312 WATERBURY LD PEARCE LA
SEPARATION AND IDENTIFICATION OF NEUTRAL AND ACIDIC METABOLITES IN CEREBROSPINAL FLUID (PHENOBARBITOL)
CLIN. CHEM., 18, 258, 1972
- 290 72 313 WEETE JD
LIPID DISTRIBUTION AND METABOLISM IN THE FUNGI (GC/MS)
THESIS. UNIV. OF HOUSTON, TEXAS. UNIV. MICROFILMS ORDER NO. 70-23,803. DISS. ABS., 318, 6, 3171, 1970
- 290 72 314 WEETE JD WALKINSHAW CH LASETER JL
EFFECTS OF LIPID MATERIALS ON LIPID LEVELS OF TORAFON TISSUE CULTURES
SCIENCE, 175, 623, 1972, 15 REFERENCES
- 290 72 315 WHITHAM GH WRIGHT M
TRANS-CYCLOALKENES. 1. (1R,2R)-TRANS-CYCLOOCT-2-EN-1-OL. 2. APPLICATION OF THE DIOXOLAN OLEFIN
SYNTHESIS TO THE STEREOSPECIFIC FORMATION OF TRANS-CYCLOOCTENE DERIVATIVES. (1R,2R)-TRANS-CYCLOOCT-2-EN-1-OL. 3. STEREOCHEMISTRY AND MECHANISM OF SOME REACTIONS OF
DIASSTEREOMERIC 3-SUBSTITUTED TRANS-CYCLOOCTENES
J. CHEM. SOC. C, P883, P886, AND P891, 1971
- 290 72 316 WILLIAMSON AL ELLSWORTH RK
IDENTIFICATION BY GAS CHROMATOGRAPHY-MASS SPECTROMETRY OF METHYLVINYLMALEIMIDE AND
FORMYLETHYLMALEIMIDE OBTAINED BY OXIDATION OF HEME AND CHLOROPHYLLS A AND B
ANAL. BIOCHEM., 43, 633, 1971
- 290 72 317 WINTERS LJ
PHOTOLYSIS AND PYROLYSIS OF CAMPHOR NITRIMINE

TETRAHEDRON LETS, P129, 1971
- 290 72 318 WOLF DE VAN DEN HEUVEL WJA KONIUSZY FR
METABOLISM OF BIS(CHLOROMETHYL)SULFONE IN SHEEP AND CATTLE
J. AGR. FOOD CHEM., 20, 1252, 1972
- 290 72 319 WOLF WR TAYLOR ML HUGHES BM
DETERMINATION OF CHROMIUM AND BERYLLIUM AT THE PICOGRAM LEVEL BY GAS CHROMATOGRAPHY - MASS
SPECTROMETRY
ANAL. CHEM., 44, 616, 1972
- 290 72 320 WOLMAN Y HAVERLAN WJ MILLER SL
NONPROTEIN AMINO ACIDS FROM SPARK DISCHARGES AND THEIR COMPARISON WITH MURCHISON METEORITE AMINO
ACIDS (GC/MS)
PROC. NAT. ACADE. SCI. U.S.A., 69, 809, 1972
- 290 72 321 YANO I SAITO K
1. STRUCTURAL ANALYSIS OF MOLECULAR SPECIES OF NOCARDIOMYCINIC ACIDS FROM NOCARDIA ERYTHROPOLIS BY
THE COMBINED SYSTEM OF GAS CHROMATOGRAPHY AND MASS SPECTROMETRY. 2. GAS CHROMATOGRAPHIC AND MASS
SPECTROMETRIC ANALYSIS OF MOLECULAR SPECIES OF CORYNOMYCINIC ACIDS FROM CORYNEBACTERIUM ULCERANA
FEBS (FED. EUR. BIOCHEM. SOC.) LETS, 21, 215, 1972 AND 23, 352, 1972
- 290 72 322 ZILKA L MATUCHA M SVIHEL K
RADIO GAS CHROMATOGRAPHY OF C(14)-LABELED HIGHER FATTY ACIDS OF THE RADIOACTIVE CULTIVATED ALGA
CHLORELLA VULGARIS
RADIOISOTOPY, 12, 767, 1971. FROM 6TH RADIOCHEMICAL CONFERENCE, MARIANSKE LAZNE, CZECHOSLOVAKIA, MAY
1971
- 290 72 323 ZITKO V HUTZINGER O JAMIESON WD
POLYCHLORINATED TERPHENYLS IN ENVIRONMENT
BULL. ENVIRON. CONTAM. TOXICOL., 7, NO. 4, 200, 1972
- 290 72 324 ZORB WI
A MASS SPECTROMETER SIMULATOR USED AS A GAS CHROMATOGRAPH-MASS SPECTROMETER DETECTOR
P 85 OF 10TH NATIONAL MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY, ABSTRACTS ONLY, ST. LOUIS,
MO., OCT. 18-22, 1971. SOC. APPLIED SPECTROSCOPY, NEW YORK, 1971.
- 290 72 325 ZVAROVA TS
GAS-ADSORPTION CHROMATOGRAPHY OF CHLORIDE COMPLEXES OF LANTHANIDE ELEMENTS WITH ALUMINUM CHLORIDE
JINR-P6-6477, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS, 1972, 7P IN
RUSSIAN, NTIS
- 295 72 001 ALEFELD G
PHASE DIAGRAMS FOR HYDROGEN IN METALS AS DEDUCED FROM FERROELASTIC PROPERTIES
BER. BUNSENES. PHYS. CHEM., 76, 355, 1972

- 295 72 002 BRODSKII IA PETUSHKOV EE MIKHAILOV SM
ION CURRENT CHARACTERISTICS IN THE ELECTRON-BEAM ZONE MELTING OF MOLYBDENUM
PP 137-42 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.). IZDATEL'
STVO FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN
- 295 72 003 BROWN JS
THERMODYNAMIC AND TRANSPORT PROPERTIES OF INTERSTITIAL HYDROGEN ISOTOPES IN PALLADIUM
COO-3551-1, PROGRESS REPORT, APRIL 1971 - DEC. 1971, VERMONT UNIV., BURLINGTON, 7P
- 295 72 004 CHARLOT LA WESTERMAN RE
REACTION OF HYDROGEN AND DEUTERIUM WITH NIOBIUM-ZIRCONIUM ALLOYS AT 900 DEGREES C
J. NUCL. MATER., 41, NO. 2, 227, 1971
- 295 72 005 CHEVALLIER J EYMERY JP SPTIZ JP
DETERMINATION OF OXYGEN IN Nb USING THE INERT GAS FUSION TECHNIQUE
MEM. SCI. REV. MET., 68, 719, 1971 IN FRENCH
- 295 72 006 CONDON JB STREHLOW RA POWELL GL
INSTRUMENT FOR MEASURING THE HYDROGEN CONTENT OF METALS
ANAL. CHEM., 43, 1448, 1971
- 295 72 007 DEMIN VB VYKHODETS VB GELD PV
SOLUBILITY OF HYDROGEN AND ITS ISOTOPES IN FACE-CENTERED CUBIC CRYSTALS
ZH. FIZ. KHIM., 46, 1544, 1972 IN RUSSIAN
- 295 72 008 DOMANOV MM ANDREEV SM
ISOTOPIC EQUILIBRIUM IN HYDROGEN-PALLADIUM SYSTEM
ZH. FIZ. KHIM., 46, 1583, 1972 IN RUSSIAN
- 295 72 009 EGOROV VN GRYZLOV VN
SPECTRAL DETERMINATION OF OXYGEN IN NIOBIUM
IND. LAB. USSR (ENGL. TRANS.), 36, 1708, 1970, TRANSLATED FROM ZAVOD. LAB., 36, 1342, 1970
- 295 72 010 FROMM E JEHN H HOERZ G
1. EQUILIBRIA IN MOLYBDENUM-NITROGEN SOLID SOLUTIONS. 2. NITROGEN SOLUBILITY IN TUNGSTEN AT HIGH
TEMPERATURES. 3. NITROGEN SOLUBILITY IN METALS OF HIGH MELTING POINTS
Z. METALLK., 62, 372 AND 378, 1971 IN GERMAN AND METALL., 25, 783, 1971 IN GERMAN
- 295 72 011 GALLAGHER PT OATES WA
VIBRATIONAL ENTROPIES OF HYDROGEN IN PALLADIUM-SILVER-HYDROGEN ALLOYS BY ISOTOPIC SOLUBILITY RATIO
METHOD
J. PHYS. CHEM. SOLIDS, 32, 2105, 1971
- 295 72 012 GAYER KH GRUNWALD JJ
REACTION OF HYDROGEN WITH LANTHANUM AT VARIOUS TEMPERATURES
Z. ANORG. ALLG. CHEM., 381, NO. 3, 316, 1971
- 295 72 013 GEBHARDT E HOERZ G
PROBLEMS OF DEGASSING OF METALS AT A HIGH MELTING POINT
MET. ITAL., 62, NO. 9, 345, 1970 IN ITALIAN
- 295 72 014 GOL'TSOV VA DEMIN VB GEL'D PV KAGAN GE
DIFFUSION, PERMEABILITY, AND SOLUBILITY OF HYDROGEN AND DEUTERIUM IN PD-NI ALLOYS
SC-T-722468, TRANSLATED FOR SANDIA LABS., ALBUQUEQUE, NEW MEXICO, FROM FIZ.-KHIM. MEKH. MATER., 7,
NO. 3, 56, 1971, 8P
- 295 72 015 HEROLD A MARECHE JF RAT JC
1. ELECTROMIGRATION OF HYDROGEN ISOTOPES IN V, Nb, AND Ta. 2. RECHERCHES SUR LES SYSTEMES:
HYDROGENE-METAL. ETUDE DE LA MIGRATION DES ISOTOPES DE L'HYDROGENE DISSOUS DANS LE PALLADIUM SOUS
L'ACTION DU CHAMP ELECTRIQUE
COMPT. REND., SER. C, 273, 1736, 1971 IN FRENCH AND BULL. SOC. CHIM. FRANCE, P80, 1972
- 295 72 016 KARLENKO GS BURTSEV VT EFIMOV YV SMIRNOV YA POLONSKII-BULAEV AA
1. DETERMINATION OF THE OXYGEN CONTENT IN REFRACTORY COMPOUNDS OF CR3Si STRUCTURE. 2. DETERMINATION
OF THE OXYGEN CONTENT IN METALLIC RUTHENIUM
ZH. ANAL. KHIM., 26, 1222 AND 1843, 1971 IN RUSSIAN
- 295 72 017 KATZ L GUINAN M BORG RJ
DIFFUSION OF H2, D2, AND T2 IN SINGLE CRYSTAL NI AND CU
PHYS. REV., 4B, 330, 1971
- 295 72 018 KHALITOV RS OZHEGOV PI KUNIN LL
THEORETICAL ASPECTS OF DETERMINATION OF GASES IN METALS BY THE REDUCTION FUSION METHOD. EFFECT OF
POROSITY ON KINETICS OF GRAPHITE EVAPORATION
ZH. ANAL. KHIM., 26, 1175, 1971 IN RUSSIAN
- 295 72 019 LASSNER E SCHEDLE H
DETERMINATION OF OXYGEN, HYDROGEN, AND NITROGEN IN HIGH MELTING METALS. 6. OXYGEN DETERMINATION IN
MOLYBDENUM WITH THE EXHALOGRAPH EAO-201
J. LESS-COMMON METALS, 25, 171, 1971 IN GERMAN
- 295 72 020 MERISOV BA SERDYUK AD FAL'KO II KHADZHAI GY KHOTKEVICH VI
DIFFUSION AND ELECTROTRANSFER OF HYDROGEN IN TANTALUM
FIZ. METAL. METALLOVED., 32, 604, 1971 IN RUSSIAN
- 295 72 021 MESSER CE PARK MK
DISSOCIATION PRESSURES AND RELATED THERMODYNAMIC FUNCTIONS AND HYDROGEN SOLUTION PARAMETERS IN THE
SYSTEMS PRH2-PRH3, NDH2-NDH3, AND SMH2-SMH3. GENERAL CONSIDERATIONS FOR THE RELATED LANTHANIDE AND
ACTINIDE HYDRIDE SYSTEMS
J. LESS-COMMON METALS, 26, 235, 1972
- 295 72 022 MORITA Z HACHISUKA K IWANAGA Y ACACHI A
SOLUBILITY OF NITROGEN AND THE EQUILIBRIUM OF NB-NITRIDE FORMING REACTION IN LIQUID FE-Nb ALLOYS
J. JAP. INST. METALS, 35, 831, 1971 IN JAPANESE
- 295 72 023 MUJU BL SMITH FR
PERMEATION OF ELECTROLYTICALLY GENERATED HYDROGEN AND TRITIUM ATOMS THROUGH LEAD
CAN. J. CHEM., 49, 2406, 1971

- 295 72 024 NIKITIAN OI GOREBAYA AE RYABEKA VP
DETERMINATION OF NITROGEN AND OXYGEN IN METALS IN A LOW VOLTAGE SPARK DISCHARGE UNDER A REDUCED
PRESSURE OF AIR (EXCHANGE OF EXPERIENCE)
IND. LAB. USSR (ENGL. TRANS.), 37, 231, 1971
- 295 72 025 OGURTANI TO
KINETICS OF DIFFUSION OF HYDROGEN IN NIOBIUM
MET. TRANS., 2, 3035, 1971
- 295 72 026 ONO H HOSHINO K IHARA T
DETERMINATION OF OXYGEN IN TITANIUM BY AN ARGON CARRIER FUSION COULOMETRY WITH IRON-TIN BATH
JAPAN ANALYST, 21, 901, 1972
- 295 72 027 POWELL GL CONDON JB STREHLOW RA
INSTRUMENT FOR THE DETERMINATION OF HYDROGEN IN METALS
Y-DA-4214, UNION CARBIDE CORP., OAK RIDGE, TENN., Y-12 PLANT, AUG. 1971, 16P. CONF-710913-1, FROM
152ND NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C., SEPT. 12, 1971
- 295 72 028 PRYDE JA TSONG IST
THEORY OF THE RESISTIVITY OF HIGH CONCENTRATION INTERSTITIAL ALLOYS WITH APPLICATION TO THE
TANTALUM-HYDROGEN AND TANTALUM-DEUTERIUM SYSTEMS
ACTA MET., 19, 1333, 1971
- 295 72 029 SMIYAN OD KRUMKOV AG
1. ON SOME FEATURES OF MOTION OF DIFFUSION FLOW OF GASES IN METALS. 2. DISTRIBUTION OF OXYGEN IN
WELDED NIOBIUM
DOKL. AKADE. NAUK SSSR, 202, 1311, 1972 IN RUSSIAN AND AVTOMAT. SVARKA, NO. 12, 60, 1971 IN RUSSIAN
- 295 72 030 STEINHEIL E HOERZ G FROMM E
SIGNIFICANCE OF GAS-METAL REACTIONS FOR PURIFICATION AND UTILIZATION OF HIGH MELTING POINT METALS
FORSCH. INGENIEURW., 37, NO. 4, 101, 1971 IN GERMAN
- 295 72 031 TADA M HUANG YC
STUDY ON THE EQUILIBRIUM IN ZIRCONIUM-HYDROGEN SYSTEM
TOKAI DAIGAKU KIYO KOGAKUBU, 1970, NO. 2, 37, 1971 IN JAPANESE
- 295 72 032 VENKATSWARLU C
ESTIMATION OF TRACES OF GASES IN METALS AND ALLOYS BY VACUUM FUSION TECHNIQUE
BARC-590, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1972, 28P. NTIS
- 295 72 033 VYKHODETS VB GELD PV DEMIN VB
ISOTOPE EFFECT IN THE SOLUBILITY OF HYDROGEN IN FCC METALS
PHYS. STATUS SOLIDI, 9A, 289, 1972
- 295 72 034 ZAKHAROV AP SHARAPOV VM
EFFECT OF SURFACE PROCESSES ON HYDROGEN PENETRATION THROUGH MOLYBDENUM
FIZ.-KHIM. MEKH. MATER., 7, NO. 6, 54, 1971 IN RUSSIAN
- 300 72 001 ABRAMOWI EL
ON GEOCHEMICAL CHARACTERISTIC OF UPPER SILURIAN TERRIGENE-CARBONACEOUS FORMATIONS OF TAMDYTAU (CENTRAL KIZIL-KUM)
DOKL. AKADE. NAUK SSSR, 202, 1419, 1972 IN RUSSIAN
- 300 72 002 ADLER I TROMBKA J GERARD J LCHMAN P SCHMADEBECK R
BLOOGET H ELLER E YIN L LAMOTHE R GORENSTEIN P
BJORKHOLM P
- GEOCHEMICAL X-RAY FLUORESCENCE EXPERIMENT. PRELIMINARY REPORT. 1. APOLLO 15. 2. APOLLO 16
SCIENCE, 175, 436, 1972, 15 REFERENCES AND SCIENCE, 177, 256, 1972
- 300 72 003 ALBRECHT P OURISSON G
UBER VERUNREINIGUNGEN IN DER ORGANISCHEN GEOCHEMIE
TETRAHEDRON, 28, 2880, 1972
- 300 72 004 ALFSEN BE CHRISTIE OM
IRON ORE PISOLITHS-TRANSITION METAL CONTENT AND GROUND WATER FLOWS OF LAKE STORSJOEN, SOUTH NORWAY
NATURE, PHYS. SCI., 237, 125, 1972
- 300 72 005 ANDERSON DM
MASS SPECTROMETRIC ANALYSIS OF ORGANIC COMPOUNDS, WATER, AND VOLATILE CONSTITUENTS IN THE ATMOSPHERE
AND SURFACE OF MARS: THE VIKING MARS LANDER
ICARUS, 16, 111, 1972
- 300 72 006 ANJANAPP K
GEOCHEMICAL CHANGES DURING CHLORITIZATION
CURR. SCI. (INDIA), 41, 65, 1972
- 300 72 007 ANNELL CS CARRON MK CHRISTIAN RP
CHEMICAL AND SPECTROGRAPHIC ANALYSES OF LUNAR SAMPLES FROM APOLLO 12 MISSION
U. S. GEOL. SURV., PROF. PAP., NO. 750-C, 179, 1971
- 300 72 008 ASPINALL A FEATHER SW RENFREW C
NEUTRON ACTIVATION ANALYSIS OF AEGEAN OBSIDIANS
NATURE, 237, 333, 1972
- 300 72 009 ASWATHANARAYANA U
TH-U RATIO AS AN AID IN PROSPECTING FOR DIAMONDS IN THE KIMBERLITIC ROCKS OF INDIA
CURR. SCI. (INDIA), 40, 663, 1971
- 300 72 010 AUMENTO F HYNDMAN RD
1. URANIUM CONTENT OF MID-OCEANIC BASALTS. 2. URANIUM CONTENT OF THE OCEANIC UPPER MANTLE
EARTH PLANET. SCI. LTRS, 11, 90, 1971 AND 12, 373, 1971
- 300 72 011 BABINETS AE MITROPOL'SKII OY
MEAN CONTENTS OF TRACE ELEMENTS IN THE BOTTOM SEDIMENTS OF THE BLACK SEA
DOPOV. AKADE. NAUK UKR. RSR, SER. B., NO. 3, 258, 1972 IN UKRAINIAN
- 300 72 012 DADU GK ASWATHANARAYANA U
MINERALOGY AND GEOCHEMISTRY OF AMPHIBOLITES FROM AMPHIBOLITES AROUND MYSORE CITY
CURR. SCI. (INDIA), 41, 103, 1972

- 300 72 013 BAKIROV AA RYABUKHIN GE
ATTEMPT AT AN CIL-GEOLOGIC ZONATION OF THE USSR
UCRL-TRANS-10598, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., FROM NEFTEGAZOV. GEOL.
GEOFIZ., NO. 6, 47-52, 1968, 11P, NTIS
- 300 72 014 BALTZER F TRESCESE J
GEOCHIMIE, PREMIERE ESTIMATION DU BILAN DE L'ALTERATION DE L'EROSION, ET DE LA SEDIMENTATION, SUR
PERIODITES, SOUS LE CLIMAT TROPICAL DE LA NOUVELLE-CALEDONIE
COMPT. REND., SER. D, 273, 2034, 1971
- 300 72 015 BANERJEE PK GHOSH S
CORRELATION OF PRECAMBRIAN ORE PROVINCES OF EAST AFRICA, INDIA, AND WEST AUSTRALIA
ECON. GEOL., 67, 55, 1972
- 300 72 016 BARRETTO PMC
RN(222) EMANATION FROM ROCK, SOILS, AND LUNAR DUST
PP 170-288 OF GJO-935-1(PT.2), JUNE 1971, IN NUCLEAR TECHNIQUES IN GEOLOGY AND GEOCHEMISTRY
- 300 72 017 BARSUKOV VL SUSHCHEVSKAYA TM MALYSHEV BI
COMPOSITION OF SOLUTIONS RESPONSIBLE FOR THE FORMATION OF U-MO DEPOSITS
AT. ENERG. (USSR), 31, 28, 1971 IN RUSSIAN
- 300 72 018 BARTELS OG
ESTIMATE OF VOLCANIC CONTRIBUTIONS TO THE ATMOSPHERE AND VOLCANIC GASES AND SUBLIMATES AS THE SOURCE
OF THE RADIOISOTOPES BE(10), S(35), P(32), AND NA(22)
HEALTH PHYS., 22, NO. 4, 387, 1972
- 300 72 019 BARTHEL F MEHNERT KB
DISTRIBUTION OF URANIUM AND THORIUM IN THE MALSBURG GRANITE
NEUES JAHRB. MINERAL., ABH., 114, NO. 1, 18-47, 1970 IN GERMAN
- 300 72 020 BATURIN GN KOCHENOV AV SENIN YM
1. URANIUM CONCENTRATIONS IN RECENT OCEANIC SEDIMENTS OF WATER UPRISE ZONES. 2. URANIUM IN SOLUTIONS
OF DOZE DEPOSITS IN THE SOUTHEASTERN ATLANTIC
GEOKHIMIYA, NO. 4, 456, 1971 AND DOKL. AKAD. NAUK SSSR, 198, 1186, 1971 IN RUSSIAN
- 300 72 021 BEADECKER PA CUTTITA F ROSE HJ SCHAUDY R WASSON JT
ORIGIN OF LUNAR SOIL 12033
EARTH PLANET. SCI. LTRS, 10, 361, 1971
- 300 72 022 BECKER VJ BENNETT JH MANUEL OK
IODINE AND URANIUM IN SEDIMENTARY ROCKS
CHEM. GEOL., 9, 133, 1972
- 300 72 023 BENDER M BROECKER W GORNITZ V MIDDLE U KAY R
GEOCHEMISTRY OF THREE CORES FROM THE EAST PACIFIC RISE
EARTH PLANET. SCI. LTRS, 12, 425, 1971, AD-740 257
- 300 72 024 BERNER RA
PRINCIPLES OF CHEMICAL SEDIMENTOLOGY
BOOK, MCGRAW-HILL, NEW YORK, 1971, 240P, MCGRAW-HILL INTERNATIONAL SERIES IN THE EARTH AND PLANETARY
SCIENCES
- 300 72 025 BERZINA IG LUTTS BG AKIMOV AP
URANIUM CONTENT AND ABUNDANCE IN DEEP-ZONE ROCKS OF THE EARTH CRUST AND UPPER MANTLE
IZV. AKAD. NAUK SSSR, SER. GEOL., NO. 1, 14, 1971 IN RUSSIAN
- 300 72 026 BHANDARI N BHAT SG KRISHNASWAMY S LAL D
RAPID BETA-GAMMA COINCIDENCE TECHNIQUE FOR DETERMINATION OF NATURAL RADIONUCLIDES IN MARINE DEPOSITS
EARTH PLANET. SCI. LTRS, 11, 121, 1971
- 300 72 027 BHOLA KL
ATOMIC MINERAL DEPOSITS IN BIHAR MICA BELT
PROC. INDIAN NAT. SCI. ACAD., PART A, 37, NO. 2, 145-68, 1971
- 300 72 028 BIELOKRY LS MAKAROV VN KOLESNIK NN
ON GEOCHEMISTRY OF SARMATIAN DEPOSITS IN SOUTH OF UKRAINIAN SSR
DOPOV. AKAD. NAUK UKR. RSR, SER. B, NO. 7, 579, 1972
- 300 72 029 BIEMANN K
EXPLORATION OF PLANETARY SURFACES BY MASS SPECTROMETRY
J. VAC. SCI. TECHNOL., 9, 456, 1972
- 300 72 030 DIRCZ R
SPECTROCHEMICAL DETERMINATION OF LITHIUM, RUBIDIUM, AND CESIUM IN GEOLOGICAL STANDARDS
IA-1244, ISRAEL ATOMIC ENERGY COMMISSION, TEL AVIV, SEPT, 1971, 15P, NTIS
- 300 72 031 DISCAYE PE
ORIGINS OF DEEP SEA SEDIMENTS AND THEIR VARIATIONS WITH TIME
CU-3132-3, ANNUAL PROGRESS REPORT NO. 3, COLUMBIA UNIV., PALISADES, N.Y., LANDOLT-DOWHERTY GEOLOGICAL
OBSERVATORY, SEPT, 1971, 176P, CU-4055-3, NTIS
- 300 72 032 BOLTNER E TIBBS M
WATER GEOCHEMISTRY OF MINING AND MILLING RETENTION PONDS IN THE NEW LEAD BELT OF SOUTHEAST MISSOURI
PB-204 889, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U. S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 300 72 033 BORCHERT H
TUMOR THEORY AS KEY TO EXPLANATION OF ENCRUSTATION AND SOLIDIFICATION OF MOON AND EARTH
GERLANDS BEITR. GEOPHYS., 79, NO. 6, 425, 1970 IN GERMAN
- 300 72 034 BORDON VE URIV II
ON GEOCHEMICAL DIFFERENCE BETWEEN FRANIAN AND FANENIAN SALINE DEPOSITS OF PRIPYAT BASIN
DOKL. AKAD. NAUK SSSR, 16, 359, 1972 IN RUSSIAN
- 300 72 035 BORKOV FP EGOROV NI ZAITSEV EV
SOME FEATURES OF THE FORMATION OF INCREASED URANIUM CONCENTRATIONS UNDER OXIDIZING CONDITIONS
IZV. VYSSH. UCHEB. ZAVED., GEOL. RAZVED., 14, NO. 5, 51, 1971 IN RUSSIAN

- 300 72 036 BOSTROEM K FISHER DE
VOLCANOGENIC URANIUM, VANADIUM, AND IRON IN INDIAN OCEAN SEDIMENTS
EARTH PLANET. SCI. LTRS. 11. NO. 2. 95. 1971
- 300 72 037 BOSTROEM K JOENSUU O VALDES S
GEOCHEMICAL HISTORY OF SOUTH ATLANTIC OCEAN SEDIMENTS SINCE LATE CRETACEOUS
MAR. GEOL. 12. NO. 2. 85. 1972
- 300 72 038 BRACEWELL JM
CHARACTERIZATION OF SOILS BY PYROLYSIS COMBINED WITH MASS SPECTROMETRY
GEODERMA. 6. NO. 3. XXX. 1971
- 300 72 039 BRAETTER P MOELLER P RDESICK U
DETERMINATION OF THE TRACE ELEMENT DISTRIBUTION IN COEXISTING CALCITE AND DOLOMITE BY NEUTRON
ACTIVATION ANALYSIS
PP 461-5 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET. OSLO. 1971. FROM CONFERENCE HELD AT KJELLER, NORWAY, SEPT. 7. 1970.
CONF-700968
- 300 72 040 BRODZINSKI RL
RN(222) ACTIVITY AT OCEANUS PROCELLARUM
TRANS. AMER. NUCL. SOC. 15. NO. 1. 148. 1972. FROM 18TH ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE
18. 1972. CONF-720607
- 300 72 041 BRCECKER WS THURBER DL
GEOCHEMICAL STUDIES OF CONTINENTAL WATERS
COO-3135-1. ANNUAL REPORT. COLUMBIA UNIV., PALISADES, N.Y., LAMONT-DOHERTY GEOLOGICAL OBSERVATORY.
OCT. 1971. 4P. NTIS
- 300 72 042 BROECKER WS PENG TH
VERTICAL DISTRIBUTION OF RADON IN THE BOMEX AREA
EARTH PLANET. SCI. LTRS. 11. NO. 2. 99. 1971
- 300 72 043 BRUNFELT AO STEINNES E HEIER KS SUNDVOLL B
1. DETERMINATION OF 36 ELEMENTS IN APOLLO 14 BULK FINES 14163 BY ACTIVATION ANALYSIS. 2. NEUTRON
ACTIVATION SCHEME DEVELOPED FOR THE DETERMINATION OF 42 ELEMENTS IN LUNAR MATERIAL. 3. ACTIVATION
ANALYSIS DETERMINATION OF 40 ELEMENTS IN LUNAR MATERIAL
EARTH PLANET. SCI. LTRS. 11. 351. 1971. TALANTA. 18. 1197. 1971. AND DAN. KEMI. 53. NO. 4. 49. 1972
IN NORWEGIAN
- 300 72 044 BRYAN WB STICE GD EWART A
GEOLOGY, PETROGRAPHY, AND GEOCHEMISTRY OF VOLCANIC ISLANDS OF TONGA
J. GEOPHYS. RES. 77. 1566. 1972
- 300 72 045 BULKIN GA
COMPLEXITY OF GEOCHEMICAL SYSTEMS AND THEIR EQUILIBRIUM
DOKL. AKADE. NAUK SSSR. 204. 956. 1972
- 300 72 046 BURRELL DC HADLEY RS (3)
1. TRACE METAL ASSOCIATIONS IN SUBARCTIC AND ARCTIC MARINE ENVIRONMENTS. 2. SUSPENDED SEDIMENT
DISTRIBUTION PATTERNS WITHIN AN ACTIVE TURBID-OUTWASH FIORD. 3. SUSPENDED SEDIMENT SIZE
FRACTIONATION WITHIN A FIORD-ESTUARY: APPLICATION OF ELECTRONIC COUNTING TECHNIQUES. 4. TRACE
METAL ASSOCIATIONS IN SUBARCTIC AND ARCTIC MARINE ENVIRONMENTS
1. RLO-2229-T-1-5. WORK IN PROGRESS, JUNE 1971. 158P. R-71-12. 2. RLO-2229-T-1-6. 1971. 19P. 3.
RLO-2229-T-1-7. 1971. 15P. CONF-711212-1. FROM MEETING OF THE AMERICAN GEOPHYSICAL UNION, SAN
FRANCISCO, CALIF., DEC. 1971. 4. RLO-2229-T-18. PROGRESS REPORT, JUNE 1971 - MAY 1972. 136P.

R-72-8. ALASKA UNIV., COLLEGE, INST. OF MARINE SCIENCE
- 300 72 047 BUSCHE FO PRINZ M KEIL K KURAT G
LUNAR ZIRKELITE: A URANIUM BEARING PHASE
EARTH PLANET. SCI. LTRS. 14. 313. 1972
- 300 72 048 CADOGAN PH EGLINTON G MAXWELL JR PILLINGER CT
CARBON CHEMISTRY OF THE LUNAR SURFACE
NATURE. 23. NO. 5297. 29. 1971
- 300 72 049 CAMERON AR BIRMINGHAM TF
RADIOACTIVITY IN WESTERN CANADIAN COALS
JSCAN-P-70-32. GEOLOGICAL SURVEY OF CANADA. OTTAWA, ONTARIO. 1970. 400. THIS
- 300 72 050 CARPENTER R
COLUMBIA RIVER EFFECTS IN THE NORTHEAST PACIFIC: CHEMICAL AND GEOLOGICAL STUDIES
RLO-2225-T-24-6. PROGRESS REPORT, SEPT. 1971 - MAY 1972. WASHINGTON UNIV., SEATTLE. DEPT. OF
OCEANOGRAPHY. 49P. NTIS
- 300 72 051 CASAGRAN HODGSON
GEOCHEMICAL CONVERSION OF A SINGLE PORPHYRIN TO A HOMOLOGOUS SERIES
NATURE. PHYS. SCI. 233. 123. 1971
- 300 72 052 CHAMLEY H MILLOT G
GEOCHIMIE, NEOFORMATION DE MONTMORILLONITE A PARTIR DE DIATOMEES ET DE CENDRES DANS LES SEDIMENTS
MARINS DE SANTORIN (MEDITERRANEE ORIENTALE)
COMPT. REND., SER. D. 274. 1132. 1972
- 300 72 053 CHAPPELL BW COMPTON W GREEN DM WARE NG
CHEMISTRY, GEOCHRONOLOGY, AND PETROGENESIS OF LUNAR SAMPLE 15555
SCIENCE. 176. 416. 1972. 4 REFERENCES
- 300 72 054 CHERDYNTSEV VV KADYROV NB NOVICHKOVA NV
ORIGIN OF THE PACIFIC MANGANESE NODULES BASED ON THE RADIOISOTOPE CONTENT
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8. NO. 2. 211. 1971. TRANSLATED FROM GEOKHIMIYA, NO. 3. 339.
1971
- 300 72 055 CHEREPIN VT
PROSPECTS OF APPLYING THE IONIC MASS SPECTRAL MICROSCOPE DURING GEOCHEMICAL INVESTIGATIONS
DOPRAV. AKADE. NAUK UKR. RSR. SER. 8. 12. 1094. 1971 IN UKRAINIAN
- 300 72 056 CHEVALIE Y DEJOU J
PETROGRAPHIE, EVOLUTION GEOCHIMIQUE SUPERFICIELLE EN CLIMAT MEDITERRANEE D'UN GRANITE A DEUX MICAS
DOTEE D'UNE POROSITE TRES ELEVEE. EXEMPLE CHOISI DANS LE MASSIF DES MAURES, AU PLAN-DE-LA-TOUR (VAR)
COMPT. REND., SER. D. 274. 1240. 1972

- 300 72 057 CHUNG Y CRAIG H
EXCESS RADON AND TEMPERATURE PROFILES FROM THE EASTERN EQUATORIAL PACIFIC
EARTH PLANET. SCI. LTRS. 14. 55. 1972
- 300 72 058 CHURCH TM BERNAT M MICHAUD G
GEOCHIMIE. DISTRIBUTION DES ELEMENTS ALCALINOTERREUX DANS LES EAUX INTERSTITIELLES D'UN CAROTTE DE
MEDITERRANEE OCCIDENTALE
COMPT. REND. SER. D. 273. 2031. 1971
- 300 72 059 CIVETTA L GASPARINI P
THORIUM AND URANIUM IN THE CRUST AND IN THE UPPER MANTLE: THEIR SIGNIFICANCE FOR THE STUDY OF THE
GENESIS AND CONTAMINATION OF THE MAGMA
ASS. GEOPHYS. ITAL. ATTI CONV. ANNU., 18. 525-40. 1969 IN ITALIAN. FROM 18TH ANNUAL MEETING OF THE
ITALIAN GEOPHYSICAL ASSOCIATION. NAPLES. OCT. 1. 1969. CONF-691063(PT.2)
- 300 72 060 CONDIE KC LO KH
TRACE ELEMENT GEOCHEMISTRY OF LOUIS LAKE BATHOLITH OF EARLY PRECAMBRIAN AGE, WYOMING
GEOCHIM. COSMOCHIM. ACTA. 35. 1099. 1971
- 300 72 061 COPPENS R MAYANDA M
PRELIMINARY STUDY OF THE RADIOACTIVITY OF QUIBERON GRANITE (MORBihan)
PP 211-21 OF PROCEEDINGS OF THE 94TH CONGRESS OF THE LEARNED SOCIETIES. VOL. 2. BIBLIOTHEQUE
NATIONALE, PARIS. 1971 IN FRENCH. FROM 94TH NATIONAL CONGRESS. PAU, FRANCE, APRIL 8. 1969.
CONF-690461(VOL.2)
- 300 72 062 CREAGER JS STERNBERG RW
SOME SPECIFIC PROBLEMS IN UNDERSTANDING BOTTOM SEDIMENT DISTRIBUTION AND DISPERSAL ON THE
CONTINENTAL SHELF
RL0-2225-T-21-5. WASHINGTON UNIV., SEATTLE. DEPT. OF OCEANOGRAPHY. 1971. 30P. CONF-711140-2. FROM
CONTINENTAL SHELF SEDIMENT TRANSPORT SYMPOSIUM, WASHINGTON. D.C., NOV. 1971
- 300 72 063 CROCKET JH
NEUTRON ACTIVATION ANALYSIS FOR NOBLE METALS IN GEOCHEMISTRY
PP 339-341 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET, OSLO. 1971. FROM CONFERENCE HELD AT KJELLER, NORWAY. SEPT. 7. 1970.
CONF-700968
- 300 72 064 CRONAN DS THOMAS RL
GEOCHEMISTRY OF FERROMANGANESE OXIDE CONCRETIONS AND ASSOCIATED DEPOSITS IN LAKE ONTARIO
GEOL. SOC. AMER., BULL., 83. 1693. 1972
- 300 72 065 CURRIE KL
ORIGIN OF IGNEOUS ROCKS ASSOCIATED WITH SHOCK METAMORPHISM AS SUGGESTED BY GEOCHEMICAL
INVESTIGATIONS OF CANADIAN CRATERS
J. GEOPHYS. RES., 76. 5575. 1971
- 300 72 066 DALL'AGLIO M CASENTINI E
1. DISTRIBUTION OF URANIUM BETWEEN PRECIPITATES AND BRINES IN THE SOLAR SALT PLANT OF MARGHERITA DI
SAVOIA. GEOCHEMICAL AND GEOLOGICAL CONSIDERATIONS. 2. STUDY OF THE CIRCULATION OF URANIUM IN THE
SUPERGENE ENVIRONMENT IN THE ITALIAN ALPINE RANGE
BOLL. SOC. GEOL. ITAL., 89. 475. 1970. RT/GE07112 AND GEOCHIM. COSMOCHIM. ACTA. 35. 47. 1971
- 300 72 067 DECARREA A JAFFREZI H
GEOCHIMIE. DOSAGE PAR ACTIVATION NEUTRONIQUE DU VANADIUM DANS DES MATERIAUX SILICATES
COMPT. REND. SER. D. 274. 2553. 1972
- 300 72 068 DRURY SA
CHEMISTRY OF SOME GRANITIC VEINS FROM THE LEWISIAN OF FOWI AND TIRREK, ARGYLLSHIRE, 6887LAND
CHEM. GEOL., 9. NO. 3. 175. 1972
- 300 72 069 DUCHESNE J DEPIREUX J GERARD A GRANDJEAN F READ M
STUDY BY ELECTRONIC PARAMAGNETIC RESONANCE AND MOESSBAUER SPECTROSCOPY OF SOME LUNAR SAMPLES
COLLECTED BY APOLLO 12
BULL. CL. SCI., ACAD. ROY. BELG., 56. 768. 1970
- 300 72 070 EBERHARDT P GEISS J GRAF M GROEGLER N MENDIA MD
MOERGILI M SCHWALLER H STETTLER A KRAEHNBUHL U VON GUNTEN HR
TRAPPED SOLAR WIND NOBLE GASES IN APOLLO 12 LUNAR FINES 12001 AND APOLLO 11 BRECCIA 10046
CONF-720121-1. BERN UNIV., SWITZERLAND. FEB. 1972. 91P. NTIS. FROM 3RD LUNAR SCIENCE CONFERENCE.
HOUSTON, TEXAS, JAN. 10. 1972
- 300 72 071 EBY GN
RARE EARTH, YTTRIUM, AND SCANDIUM GEOCHEMISTRY OF THE OKA CARBONATITE COMPLEX, OKA, QUEBEC
THESIS. BOSTON UNIV., MASSACHUSETTS. 1971. 263P. UNIV. MICROFILMS ORDER NO. 71-26.403
- 300 72 072 EGLINTON G MAXWELL JR PILLINGER CT
CARBON CHEMISTRY OF THE MOON
SCI. AMER., 227. NO. 4. 80. 1972
- 300 72 073 ELDRIDGE JS O'KELLEY GD NORTHCUTT KJ SCHONFELD E
NONDESTRUCTIVE DETERMINATION OF RADIONUCLIDES IN LUNAR SAMPLES USING A LARGE LOW-BACKGROUND
GAMMA-RAY SPECTROMETER AND A NOVEL APPLICATION OF LEAST-SQUARES FITTING
CONF-720824-1. OAK RIDGE NATIONAL LAB., TENN., AND NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
HOUSTON, TEX., MANNED SPACECRAFT CENTER. 1972. 8P. FROM 1ST INTERNATIONAL SUMMER SCHOOL ON
RADIONUCLIDE METROLOGY, HERCEG NOVI, YUGOSLAVIA, AUG. 21. 1972
- 300 72 074 ELGORESY A RAMDOHR P TAYLOR LA
GEOCHEMISTRY OF OPAQUE MINERALS IN APOLLO 14 CRYSTALLINE ROCKS
EARTH PLANET. SCI. LTRS. 13. 121. 1971
- 300 72 075 ENERGLYN L BREALEY L FLANAGAN FJ
METHODS IN GEOCHEMISTRY AND GEOPHYSICS. 5. ANALYTICAL GEOCHEMISTRY
GEOCHIM. COSMOCHIM. ACTA. 36. 265. 1972
- 300 72 076 EUGSTER O
LI, BE, AND B ABUNDANCES IN FINES FROM THE APOLLO 11, APOLLO 12, APOLLO 14, AND LUNA 16 MISSIONS
EARTH PLANET. SCI. LTRS. 12. 273. 1971
- 300 72 077 FAIRHALL AW
MODEL OF THE ACCUMULATION OF FOSSIL CO2 IN THE ATMOSPHERE AND THE SEA
RL0-2225-T-20-8. WASHINGTON UNIV., SEATTLE. DEPT. OF CHEMISTRY. 1972. 16P NTIS

- 300 72 C78 FILES FG
GEOLOGY AND ALTERATION ASSOCIATED WITH WYOMING URANIUM DEPOSITS
GJO-936-1. THESIS. CALIFORNIA UNIV., BERKELEY, 1972. 132P. NTIS
- 300 72 079 FISHER DE FANALE FP NASH DB
POTASSIUM-URANIUM SYSTEMATICS OF APOLLO 11 AND 12 LUNAR SAMPLES AND OF SOME DEEP EARTH ROCKS
SCIENCE, 172. 1166, 1971
- 300 72 080 FOMIN AB SLYNKO PI
ON GEOCHEMISTRY OF ULTRABASIC ROCKS IN GASIN-OF-RDS AND TETEREV RIVERS
DOPOV. AKAD. NAUK UKR. RSR, SER. B, NO. 4, 340, 1972
- 300 72 081 FOWLER PH
EVOLUTION OF THE ELEMENTS
PROC. ROY. SOC. (LONDON), SER. A, 329, NO. 1576, 1-16, 1972
- 300 72 C82 FUCHS LH
ORTHOPYROXENE AND ORTHOPYROXENE-BEARING ROCK FRAGMENTS RICH IN K, REE, AND P IN APOLLO 14 SOIL
SAMPLE 14163
EARTH PLANET. SCI. LTRS, 12, 170, 1971
- 300 72 083 FUNKHOUSER J
NOBLE GAS ANALYSIS OF KREEP FRAGMENTS IN LUNAR SOIL 12033 AND 12070
EARTH PLANET. SCI. LTRS, 12, 263, 1971
- 300 72 C84 FUNNELL BM RIEDEL WR
THE MICROPALAEONTOLOGY OF OCEANS. PROCEEDINGS OF A SYMPOSIUM, CAMBRIDGE, ENGLAND, SEPT. 1967
BOCK, CAMBRIDGE UNIVERSITY PRESS, NEW YORK, 1971. 828P. 52 PAPERS
- 300 72 C85 GABELMAN JW
1. METALLOTECTONIC EVIDENCE FOR CONTINENTAL DRIFT. 2. SEDIMENTOLOGY AND URANIUM PROSPECTING. 3.
RADON EMANOMETRY OF STARKS SALT DOME, CALCASIEU PARISH, LOUISIANA
1. #ASH-1205. DIVISION OF PRODUCTION AND MATERIALS MANAGEMENT, AEC, WASHINGTON, D.C., AUG. 1971.
44P. GPO. 2. SEDIMENT. GEOL., 6, NO. 3, 145-86, 1971. 3. RME-4114. DIV. OF PROD. AND MAT.
MANAGEMENT, AEC, WASHINGTON, D.C., MARCH 1972. 75P. GPO
- 300 72 086 GALLAGHER MJ MICHIE UM SMITH RT HAYNES L
NEW EVIDENCE OF URANIUM AND OTHER MINERALIZATION IN SCOTLAND
TRANS. INST. MINING MET. EN. 1971, 1971
- 300 72 C87 GANAPATHY R LAUL JC MORGAN JW ANDERS E
MOON: POSSIBLE NATURE OF THE BODY THAT PRODUCED THE IMBRIAN BASIN, FROM THE COMPOSITION OF APOLLO 14
SAMPLES
SCIENCE, 175, 55, 1972
- 300 72 088 GANCARZ AJ ALBEE AL CHUOUS AA
PETROLOGIC AND MINERALOGIC INVESTIGATION OF SOME CRYSTALLINE ROCKS RETURNED BY THE APOLLO 14 MISSION
EARTH PLANET. SCI. LTRS, 12, 1, 1971
- 300 72 C89 GERASIMO VI LAKTIONOV NV AGEYEVA LV NESMEYAN LI BALASHOV YA
KARPUSHI VA
1. SCANDIUM IN EFFUSIVES OF EAST AFRICAN RIFT ZONES. 2. CALCIUM, STRONTIUM, BARIUM, AND MANGANESE IN
EFFUSIVE ROCKS OF RIFT ZONES OF EASTERN AFRICA. 3. GEOCHEMISTRY OF RARE EARTH ELEMENTS IN EFFUSIVE
ROCKS OF EAST AFRICA RIFT ZONES
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, NO. 2, 248, 1971 AND GEOKHIMIYA, NO. 2, 158 AND NO. 5, 515,
1972
- 300 72 090 GILLUM DE EHMANND WAKITA H
BULK AND RARE EARTH ABUNDANCES IN LUNA 16 SOIL LEVELS A AND C
EARTH PLANET. SCI. LTRS, 13, 444, 1972
- 300 72 091 GINZBURG AI PANTELEEV AI
EXCESS ARGON IN BERYLS
GEOKHIMIYA, NO. 10, 1218, 1971 IN RUSSIAN
- 300 72 092 GIPSH AA KAPATURIN GG YUDOVICH YE
1. SOME RESULTS OF AN INVESTIGATION OF THE RELATIONSHIP OF NATURAL RADIOACTIVITY AND ASH CONTENT OF
COALS OF THE VORKUTSK FIELD. 2. DISTRIBUTION AND GENESIS OF RADIOACTIVITY IN COALS OF THE PECHORA
RIVER BASIN
IZV. VYSSH. UCHEB. ZAVED., GEOL. RAZVED., NO. 10, 145, 1970 AND NO. 6, 61, 1971 IN RUSSIAN
- 300 72 093 GLADKIKH VS LEBEDEV-ZINOV'EV AA
URANIUM AND THORIUM IN ALKALINE OLIVINE-BASALT SERIES
GEOKHIMIYA, 1315, 1971 IN RUSSIAN
- 300 72 094 GLAESER R MERING J
MINERALOGIE. MIGRATION DES CATIONS LI DANS LES SMECTITES DIOCTAEDRIQUES (EFFET HOFMANN KLEMEN)
COMPT. REND., SER. D, 273, 2399, 1971
- 300 72 C95 GLENN JL VAN ATTA RD
RELATIONS AMONG RADIONUCLIDE CONTENT AND PHYSICAL, CHEMICAL, AND MINERAL CHARACTERISTICS OF COLUMBIA
RIVER SEDIMENTS. CONTAINS SECTION OF SAND MINERALOGY
TID-23700. GEOLOGICAL CONVEY. PORTLAND, OREGON, WATER RESOURCES DIV., 1971. 125P. NTIS
- 300 72 096 GOLUBEV VS GARIBYAN AA
INFORMATION ABOUT WORK OF FIRST SEMINAR ON KINETICS AND DYNAMICS OF GEOCHEMICAL PROCESSES
GEOKHIMIYA, 1972, 1972 IN RUSSIAN
- 300 72 C97 GRAHAM AL RINGWOOD AE
LUNAR BASALT GENESIS: THE ORIGIN OF THE EUROPIUM ANOMALY
EARTH PLANET. SCI. LTRS, 13, 105, 1971
- 300 72 C98 GREEN TH BRUNFELT AO HEIER KS
RARE EARTH ELEMENT DISTRIBUTION AND K/RB RATIOS IN GRANULITES, MANGERITES, AND ANORTHOSITES.
LOFOTEN-VESTERAALEN, NORWAY
GEOCHIM. COSMOCHEM. ACTA, 36, 241, 1972
- 300 72 C99 GRIBOVSK IF KREMEN AS MALYASOV ES
GEOCHEMISTRY OF HOLOCENE DEPOSITS OF LAKE 'MUTNOYE'
GEOKHIMIYA, 1992, 1971 IN RUSSIAN

- 300 72 100 GRIFFITHS PR BROWN CW LIPPINCOTT ER DAYHOFF NO
THERMODYNAMIC MODELS IN COSMOCHEMICAL SYSTEMS
GEOCHIM. COSMOCHIM. ACTA. 36. 109. 1972
- 300 72 101 GRJEBINE T LAMBERT G LE ROULLEY JC
ALPHA SPECTROMETRY OF A SURFACE EXPOSED LUNAR ROCK
EARTH PLANET. SCI. LTRS. 14. 322. 1972
- 300 72 102 GULSON BL LOVERING JF TAYLOR SR
HIGH-K DIORITES, THEIR PLACE IN CALC-ALKALINE ASSOCIATION AND RELATIONSHIP TO ANDESITES
LITHOS. 5. 269. 1972
- 300 72 103 HAJI-VASSILIOU A KERR PF
URANIUM-ORGANIC MATTER ASSOCIATION AT LA BAJADA, NEW MEXICO
ECON. GEOL., 67. 41. 1972
- 300 72 104 HALL HT RAMA MURTHY V
EARLY CHEMICAL HISTORY OF THE EARTH: SOME CRITICAL ELEMENTAL FRACTIONATIONS
EARTH PLANET. SCI. LTRS. 11. 239. 1971
- 300 72 105 HARGRAVES RB HOLLISTER LS
MINERALOGIC AND PETROLOGIC STUDY OF LUNAR ANORTHOSITE SLIDE 15415.18
SCIENCE. 175. 430. 1972. 7 REFERENCES
- 300 72 106 HARTMANN M LANGE H SEIBOLD E
NOTES TO 'GEOCHEMICAL INVESTIGATIONS ON SEDIMENTS OF PERSIAN GULF' BY J. LANGE
CONTRIB. MINER. PETROL., 31. 159. 1971 IN GERMAN
- 300 72 107 HASNAIN I QURESHY MN
PALEOMAGNETISM AND GEOCHEMISTRY OF SOME DIKES IN MYSORE STATE, INDIA
J. GEOPHYS. RES., 76. 4786. 1971
- 300 72 108 HAYS JF
RADIOACTIVE HEAT SOURCES IN THE LUNAR INTERIOR
PHYS. EARTH PLANET. INTERIORS. 5. NO. 1. 77-84. 1972
- 300 72 109 HELMKE PA
RARE EARTH ELEMENTS IN THE STEENS MOUNTAIN BASALTS
THESIS. UNIV. OF WISCONSIN, MADISON. 1971. 171P. UNIV. MICROFILMS ORDER NO. 71-26,990
- 300 72 110 HENDERSON P MACKINNON A GALE NH
DISTRIBUTION OF URANIUM IN SOME BASIC IGNEOUS CUMULATES AND ITS PETROLOGICAL SIGNIFICANCE
GEOCHIM. COSMOCHIM. ACTA. 35. 917. 1971
- 300 72 111 HERRMANN DB
NEW MEASUREMENT OF THE RADON CONTENT OF THE WATERS AT BAD BRAMBACH
ARCH. PHYS. THER. (LEIPZIG). 20. NO. 1. 29. 1968 IN GERMAN
- 300 72 112 HEYMANN D YANIV A
DISTRIBUTION OF RN(222) ON THE SURFACE OF THE MOON
NATURE. PHYS. SCI., 233. 37. 1971
- 300 72 113 HINNERS NW
NEW MOON: A VIEW
REV. GEOPHYS. SPACE PHYS., 9. NO. 3. 447-522. 1971. 212 REFERENCES
- 300 72 114 HOANG C SERVANT J
GEOCHIMIE RADIOACTIVE LE FLUX DE RADON DE LA MER
COMPT. REND., SER. D. 274. 3157. 1972
- 300 72 115 HOLLAND PT SIMONEIT BR WSZOLEK PC
LUNAR FINES-ETCHING EXPERIMENTS ON SEVERAL SIZE FRACTIONS. CARBON CHEMISTRY OF APOLLO 14
SIZE-FRACTIONATED FINES
NATURE. PHYS. SCI., 235. 106. 1972
- 300 72 116 HOUSTON RS MURPHY JF
THORIUM AND TITANIUM BEARING ORGANIC MATERIAL IN THE DAKOTA SANDSTONE NEAR DURANGO, COLORADO
U.S., GEOL. SURV., PROF. PAP., NO. 700-C. 138-44. 1970
- 300 72 117 HUBBARD NJ GAST PW MEYER C
CHEMICAL COMPOSITION OF LUNAR ANORTHOSITES AND THEIR PARENT LIQUIDS
EARTH PLANET. SCI. LTRS. 13. 71. 1971
- 300 72 118 HUNEKE JC PODDESEK FA WASSERBURG GJ BURNETT DS
1. GAS RETENTION AND COSMIC RAY EXPOSURE AGES OF A BASALT FRAGMENT FROM MARE FECUNDITATIS. 2. RARE
GAS STUDIES OF THE GALACTIC COSMIC RAY IRRADIATION HISTORY OF LUNAR ROCKS
EARTH PLANET. SCI. LTRS. 13. 375. 1972 AND GEOCHIM. COSMOCHIM. ACTA. 36. 269. 1972
- 300 72 119 IVANOV DN
URAN V GRANITO IDAKH RAIONA GUL'SHAD TSENTRAL'NYI KAZAKHSTAN (URANIUM IN GRANITE IN THE GUL'SHAD
REGION, CENTRAL KAZAKHSTAN)
BOOK, IZDATEL'STVO NAUKA Leningradskoe OTDELENIE, Leningrad. 1967. 80P
- 300 72 120 IVANOVA GF KOGARKO LN
MOSCOW GEOCHEMICAL SEMINAR
GEOKHIMIYA. P248. 1972 IN RUSSIAN
- 300 72 121 JAMES OB
LUNAR ANORTHOSITE 15415: TEXTURE, MINERALOGY, AND METAMORPHIC HISTORY
SCIENCE. 175. 432. 1972. 22 REFERENCES
- 300 72 122 JEROME OY PHILIPPOT JC BRICHET E
1. CHEMICAL COMPOSITION OF A SAMPLE OF THE LUNAR SURFACE BROUGHT BACK BY THE AUTOMATIC PROBE, LUNA
16. 2. DETERMINATION OF 29 ELEMENTS IN LUNA 16 SOIL BY NONDESTRUCTIVE ACTIVATION ANALYSIS
COMPT. REND., SER. D. 273. 1657. 1971 IN FRENCH, AND EARTH PLANET. SCI. LTRS. 13. 436. 1972
- 300 72 123 JOHNSON FS
LUNAR ATMOSPHERE
REV. GEOPHYS. SPACE PHYS., 9. NO. 3. 813-23. 1971. 26 REFERENCES

- 300 72 124 JOHNSON NM
MINERAL EQUILIBRIA IN ECOSYSTEM GEOCHEMISTRY
ECOLOGY, 52, 529, 1971
- 300 72 125 JOHNSON PH WALKINSHAW CH MARTIN JR
ELEMENTAL ANALYSIS OF APOLLO 15 SURFACE FINES USED IN BIOLOGICAL STUDIES IN THE LUNAR RECEIVING
LABORATORY
BIOSCIENCE, 22, NO. 2, 96, 1972
- 300 72 126 JONES AS
PARTIAL GEOCHEMICAL STUDY OF SHALLOW MARINE SEDIMENTS, CARDIGAN BAY (WALES)
MAR. GEOL., 12, 313, 1972
- 300 72 127 KAISER WA
RARE GAS STUDIES IN LUNA-16-G-7 FINES BY STEPWISE HEATING TECHNIQUE. A LOW-FISSION SOLAR WIND XE
EARTH PLANET. SCI. LTRS, 13, 387, 1972
- 300 72 128 KARPOV IK KAZMIN LA
COMPUTATION OF COMPLEX CHEMICAL EQUILIBRIA IN MULTICOMPONENT HETEROGENEOUS GEOCHEMICAL SYSTEMS
GEOKIMIYA, P402, 1972 IN RUSSIAN
- 300 72 129 KHALILI H
CONTRIBUTION TO GEOCHEMISTRY OF SOME PEGMATITES IN EASTERN ALPS
TSCHERNAKS MINERAL. PETROGR. MITT., 18, NO. 2, 79, 1972 IN GERMAN
- 300 72 130 KHRISTIANOV VK KORCHUGANOV BN
ON RADON CONTENT IN THE WATERS OF THE UPPER VOLGA
GEOKIMIYA, P492, 1971 IN RUSSIAN
- 300 72 131 KIKTENKO VF ORSA VI FOMIN AB
SOME GEOCHEMICAL PECULIARITIES OF ULTRABASIC ROCKS OF MOKRAYA MOSKOVAKA RIVER (MIDDLE DNIPIER AREA)
DOPOV. AKAD. NAUK UKR. SSR, SER. 8, NO. 2, 111, 1972 IN RUSSIAN
- 300 72 132 KINCAID GP
CONTEMPORARY SOURCES AND GEOCHEMISTRY OF TRITIUM IN THE GULF OF MEXICO AND ITS DISTRIBUTIVE PROVINCE
THESIS, TEXAS A AND M UNIV., COLLEGE STATION, 1971, 257P. UNIV. MICROFILMS ORDER NO. 72-5683
- 300 72 133 KOLMAN TP KAROL PJ
NUCLEAR CHEMISTRY AND GEOCHEMISTRY RESEARCH, CARNEGIE-MELLON UNIVERSITY
C00-3236-3, PROGRESS REPORT, 1971-1972, CARNEGIE-MELLON UNIV., PITTSBURGH, PA., DEPT. OF CHEMISTRY,
MAY 1972, 81P. NTIS
- 300 72 134 KONDAIAM E
IS LUNAR MATTER DIFFERENT FROM TERRESTRIAL MATTER
PP 167-71 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, VOL. II,
DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1970, FROM CONFERENCE, MADURAI, INDIA, DEC. 27, 1970.
CONF-701219(VOL.2)
- 300 72 135 KONUR VP JAKOVETS IA
GEOCHEMICAL FEATURES OF FORMATIONS AND BITUMINOSITY OF LOWER CRETACEOUS RED BEDS IN CLOSED REGIONS
OF SOUTHERN PART OF TAJIK DEPRESSION
DOKL. AKAD. NAUK SSSR, 204, 200, 1972 IN RUSSIAN
- 300 72 136 KOVAL'SKII VV LETUNOVA SV
ROLE OF MICROORGANISMS IN THE BIOGENIC MIGRATION OF URANIUM
BIOL. NAUKI, 13, NO. 6, 81-7, 1970 IN RUSSIAN
- 300 72 137 KOVALEV VP MALYASOVA ZV
CONTENT OF MOBILE URANIUM IN EXTRUSIVE AND INTRUSIVE ROCKS OF THE EASTERN MARGIN OF THE SOUTH
MINUSINSK BASIN
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 541, 1971, TRANSLATED FROM GEOKIMIYA, P855, 1971
- 300 72 138 KOVALEVSKII AL
BIOGEOCHEMICAL PROSPECTING FOR URANIUM DEPOSITS
AT. ENERG. (USSR), 33, NO. 1, 557, 1972 IN RUSSIAN
- 300 72 139 KRAEHEMBUEHL U ROLLI HP VON GUNTEN HR
ACTIVATION ANALYSIS OF RARE EARTHS IN ROCK STANDARDS AND IN LUNAR SAMPLES
HELV. CHIM. ACTA, 55, 697, 1972 IN GERMAN
- 300 72 140 KRISHNASWAMI S LAL D PRABHU N. TAMHANE AS
OLIVINES: REVELATION OF TRACKS OF CHARGED PARTICLES
SCIENCE, 174, 287, 1971
- 300 72 141 KRISTMAN H
ANORTHOSITE INCLUSIONS IN TERTIARY DOLERITE FROM ISLAND GROUPS, HRAPPSEY AND PURKEY, WEST ICELAND
J. GEOL., 79, NO. 6, XXX, 1971
- 300 72 142 KUDELSKI AV OBMORYSH KM
PALEOGEOCHEMICAL CONDITION OF COLLECTOR FORMATION IN INTERSALT OIL-BEARING DEPOSITS OF
RECHITSIA-VIHAN STRUCTURAL REGION
DOKL. AKAD. NAUK BSSR, 15, NO. 11, XXX, 1971
- 300 72 143 KURDYUKOV AA
OXIDATION-REDUCTION PROPERTIES OF ROCKS CONTAINING URANIUM ORES IN BLACK SHALES
LITOL. POLEZ. ISKOP., NO. 1, 130, 1970 IN RUSSIAN
- 300 72 144 KUZNETSO SI
GEOCHEMICAL ACTIVITY OF MICROORGANISMS IN DEPOSITS OF MINERALS
IZV. AKAD. NAUK SSSR, SER. BIOL., NO. 3, 301, 1972
- 300 72 145 KVENVOLDEN KA ROEDDER E
FLUID INCLUSIONS IN QUARTZ CRYSTALS FROM SOUTHWEST AFRICA
GEOCHIM. COSMOCHEM. ACTA, 35, NO. 12, XXX, 1971
- 300 72 146 KYUREGYAN TN
RACON WATERS IN THE CAUCASUS
IZV. AKAD. NAUK ARM. SSR, NAUKI ZEMLE, 23, NO. 4, 92, 1970

- 300 72 147 LABHART TP RYBACH L
ABUNDANCE AND DISTRIBUTION OF URANIUM AND THORIUM IN THE SYENITE OF PIZ GIUV (AAR-MASSIF,
SWITZERLAND)
CHEM. GEOL., 7, NO. 4, 237, 1971
- 300 72 148 LANGMUIR D
GEOCHEMISTRY OF SOME CARBONATE GROUND WATERS IN CENTRAL PENNSYLVANIA
GEOCHIM. COSMOCHIM. ACTA, 35, 1023, 1971
- 300 72 149 LAUL JC WAKITA H SHOWALTER DL BCYNTON WV SCHMITT RA
BULK, RARE EARTH AND OTHER TRACE ELEMENTS IN APOLLO 14 AND 15, AND LUNA 16 SAMPLES
N72-26714, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 300 72 150 LEBEDEV-ZINOV EV AA MODNIKOV IS
INFLUENCE OF MORPHOLOGY AND INTERNAL STRUCTURE OF VOLCANIC BODIES ON LOCALIZATION OF
URANIUM-MOLYBDENUM MINERALIZATION
IZV. VYSSH. UCHEB. ZAVED., GEOL. RAZVED., 14, NO. 5, 58-64, 1971 IN RUSSIAN
- 300 72 151 LEE WH GARD LM
SUMMARY OF THE SUBSURFACE GEOLOGY OF THE CANNIKIN SITE, AMCHITKA ISLAND, ALASKA
USGS-474-132, AMCHITKA 6-4, GEOLOGICAL SURVEY, DENVER, COLORADO, 1971, 24P
- 300 72 152 LEONOVA LL UDAL'TSOVA NI VOLYNETS ON KOLOSKOV AV FLEROV GB
GEOCHEMISTRY OF RADIOACTIVE (U,TH), ALKALINE (LI,RB,CS) ELEMENTS AND BORDON IN INTRUSIVE COMPLEXES OF
THE CENTRAL KAMCHATKA
GEOL. GEOPHYS., NO. 1, 10-16, 1971 IN RUSSIAN
- 300 72 153 LEVASHOV GB GOVOROV IN STRIZHKO AA
PROBLEMS OF REGIONAL GEOCHEMISTRY OF TUNGSTEN OF PRIMORYE TERRITORY
GEOKHIMIYA, P460, 1972 IN RUSSIAN
- 300 72 154 LEVINSON AA
PROCEEDINGS OF THE 2ND LUNAR SCIENCE CONFERENCE, HOUSTON, TEXAS, JANUARY 11-14, 1971, VOLUME 1.
MINERALOGY AND PETROLOGY, VOLUME 2, CHEMICAL AND ISOTOPE ANALYSES, ORGANIC CHEMISTRY, VOLUME 3.
PHYSICAL PROPERTIES, SURVEYOR III
GEOCHIM. COSMOCHIM. ACTA, SUPPL. 2, MASSACHUSETTS INSTITUTE OF TECHNOLOGY PRESS, CAMBRIDGE, 1971.
CONF-710102(VOL.1), 1003 PAGES, CONF-710102(VOL.2), 975P, CONF-710102(VOL.3), 875P
- 300 72 155 LEWIS JS
SATELLITES OF OUTER PLANETS: THEIR PHYSICAL AND CHEMICAL NATURE
ICARUS, 15, NO. 2, XXX, 1971
- 300 72 156 LI Y
GEOCHEMICAL MASS BALANCE AMONG THE LITHOSPHERE, HYDROSPHERE, AND ATMOSPHERE
AMER. J. SCI., 272, NO. 2, 119, 1972
- 300 72 157 LINDSAY JF
MIXING MODELS AND RECOGNITION OF END-MEMBER GROUPS IN APOLLO 11 AND 12 SOILS
EARTH PLANET. SCI. LTRS, 12, 67, 1971
- 300 72 158 LINDSTROM RM EVANS JC FINKEL RC ARNOLD JR
RADON EMANATION FROM THE LUNAR SURFACE
EARTH PLANET. SCI. LTRS, 11, 254, 1971
- 300 72 159 LORRAIN R SOUCHEZ R
- GEOCHEMIE, DE L'IMPORTANCE DE ADSORPTIONS DANS LE TRANSPORT DES CATIONS MAJEURS PAR UN COURS D'EAU
SOUS-GLACIAIRE ALPIN
COMPT. REND., SER. D, 274, 1237, 1972
- 300 72 160 LUKASHEV KI LAPUT VA
APPLICATION OF BITUMINOLOGICAL RESEARCH TO GEOCHEMICAL SEARCH FOR OIL AND GAS
DOKL. AKADE. NAUK. BSSR, 15, 728, 1971 IN RUSSIAN
- 300 72 161 MAGOMEDOV SA
KINETICS OF THE MIGRATION OF ATOMS OF RADIOGENIC LEAD IN URANITE
SOV. RADIOCHEM. (ENGL. TRANS.), 14, NO. 1, 111, 1972, TRANSLATED FROM RADIOKHIMIYA, 14, 114, 1972
- 300 72 162 MAKSIMOV OB PRISHCHE RS SHVETS TV
GEOCHEMICAL ROLE OF HUMIC ACID OXIDATION PRODUCTS
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 9, 135, 1972, TRANSLATED FROM GEOKHIMIYA, P221, 1972
- 300 72 163 MARAKUSH AA
MIGRATION ABILITY AND GEOCHEMICAL SYSTEMATICS OF METALS
VESTN. AKADE. NAUK SSSR, NO. 6, 46, 1972 IN RUSSIAN
- 300 72 164 MASON B
LUNAR ROCKS
SCI. AMER., 225, NO. 4, 49-58, 1971
- 300 72 165 MASUDA A
LUNAR SOLID-TYPE AND LIQUID-TYPE MATERIALS AND RARE EARTH ABUNDANCES
NATURE, PHYS. SCI., 235, 132, 1972
- 300 72 166 MAUNG TIN MO
URANIUM CONCENTRATIONS IN MARINE SEDIMENTS
THESIS, TEXAS A AND M UNIV., COLLEGE STATION, 1971, 163P, UNIV. MICROFILMS ORDER NO. 72-13,238
- 300 72 167 MAURICE J
GEOCHEMIE, TENEURS EN BORE DES PRINCIPALES ROCHES DU MASSIF ARMORICAIN
COMPT. REND., SER. D, 274, 1769, 1972
- 300 72 168 MAXWELL JR PILLINGER CT EGLINTON G
ORGANIC GEOCHEMISTRY
QUART. REV., 25, NO. 4, 571, 1971
- 300 72 169 McDONALD JY
RADIOCHEMISTRY AS APPLIED TO GEOCHEMICAL PROBLEMS: NEUTRON ACTIVATION ANALYSIS
ORO-2670-47, FINAL REPORT, KENTUCKY UNIV., LEXINGTON, RESEARCH FOUNDATION, JAN. 1972, 39P, NTIS

- 300 72 170 MCELROY MB DONAHUE TM
1. MARS. AN EVOLVING ATMOSPHERE. 2. STABILITY OF MARTIAN ATMOSPHERE
SCIENCE, 175. 443, 1972. 18 REFERENCES AND 177. 986, 1972
- 300 72 171 MCMANUS DA
IMPLICATIONS OF SEDIMENT DISPERSAL FROM LONG-TERM, BOTTOM-CURRENT MEASUREMENTS ON THE CONTINENTAL
SHELF OF WASHINGTON
RLO-2225-T-21-4. WASHINGTON UNIV., SEATTLE, DEPT. OF OCEANOGRAPHY, 1971. 30P. CONF-711140-1. FROM
CONTINENTAL SHELF SEDIMENT TRANSPORT SYMPOSIUM, WASHINGTON, D.C., NOV. 1971
- 300 72 172 MEGUMI K MAMURO T
METHOD FOR MEASURING RADON AND THORON EXHALATION FROM THE GROUND
J. GEOPHYS. RES., 77. 3052, 1972
- 300 72 173 MELADZE GK
RADIOACTIVITY OF WATER SOURCES OF SOME CRYSTAL MASSIFS OF GEORGIA
SOOBSHCH. AKAD. NAUK GRUZ. SSR, 65. NO. 1. 93, 1972 IN GEORGIAN
- 300 72 174 MENZEL DH MINNAERT M LEVIN B
REPORT OF LUNAR NOMENCLATURE BY WORKING GROUP OF COMMISSION 17 OF IAU
SPACE SCI. REV., 12. 136, 1971
- 300 72 175 MEYER GL
APPLICATIONS OF NEUTRON SOURCES TO GROUND WATER HYDROLOGY
PP III.21-38 OF CONF-710402(VOL.1). TELEDYNE ISOTOPES, LAS VEGAS, NEV., AUG. 1971. FROM MEETING ON
NEUTRON SOURCES AND APPLICATIONS, AUGUSTA, GA., APRIL 18, 1971
- 300 72 176 MILLER DS. FRIEDMAN GM
URANIUM GEOCHEMISTRY IN CARBONATES USING THE FISSION TRACK METHOD
COO-3462-4. TECHNICAL PROGRESS REPORT, RENSSELAER POLYTECHNIC INST., TROY, N.Y., JAN. 1972. 12P.
NTIS
- 300 72 177 MINEEVA LG
MAIN GEOCHEMICAL PECULIARITIES OF ALKALINE ROCKS OF POTASSIUM SERIES
GEOKHIMIYA, P272, 1972
- 300 72 178 MODNIKOV IS TARKHANOVA GA CHESNOKOV LV
CORRELATION BETWEEN U-MO AND SN-W-MO HYDROTHERMAL MINERALIZATION
GEO. RUSS. NESTOROZHDO., 13. NO. 2. 92-7, 1971 IN RUSSIAN
- 300 72 179 MOGAROVSKII VV MELNICHENKO AK KOZYREV VI
RADIOCHEMICAL PECULIARITIES OF GRANITOIDS OF THE GISSAR PLUTON (REGULARITIES OF U AND TH
DISTRIBUTION IN ROCKS OF CENTRAL TAJIKISTAN)
GEOKHIMIYA, P406, 1971 IN RUSSIAN
- 300 72 180 MOHR PA
REGIONAL SIGNIFICANCE OF VOLCANIC GEOCHEMISTRY IN AFRICAN TRIPLE JUNCTION
GEO. SOC. AMER., BULL., 83. 213, 1972
- 300 72 181 MORGAN BA HESS PC
MINERALOGY AND PETROLOGY OF UPPER MANTLE, SULFIDES, MINERALOGY, AND GEOCHEMISTRY OF NONMARINE
EVAPORITES
AMER. J. SCI., 272. NO. 2. 195, 1972
- 300 72 182 MORGAN JW LOVERING JF
URANIUM AND THORIUM IN SOME BASIC AND ULTRABASIC ROCKS OF POSSIBLE DEEP SEATED ORIGIN
- PP 445-54 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY, BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. FROM CONFERENCE, KJELLER, NORWAY, SEPT. 7, 1970. CONF-700968
- 300 72 183 MORRISON GH
EVALUATION OF LUNAR ELEMENTAL ANALYSES
ANAL. CHEM., 43. NO. 7. 22A, 1971
- 300 72 184 MOSSER C GALL JC TARDY Y
GEOCHEMISTRY OF ILLITE FROM GRES A VOLTZIA (UPPER BUNTER SANDSTONE) FORMATION IN NORTHERN VOSGES.
FRANCE
CHEM. GEOL., 10. NO. 2. 157, 1972 IN FRENCH
- 300 72 185 MUKERJEE S
MOON: ITS ORIGIN AND PHYSIOGRAPHY,
SCI. CULT. (CALCUTTA), 37. NO. 5. 230, 1971
- 300 72 186 MURCHISON DG
GEOCHEMICAL FACIES ANALYSIS
NATURE, 236. 284, 1972
- 300 72 187 NAD A CHEKE A SABO E FORZATS B ZEMPLEN E
DETERMINATION OF THE OXYGEN CONTENT OF LUNAR MATERIAL OBTAINED FROM THE LUNA 16 FLIGHT BY 14 MEV
NEUTRON ACTIVATION ANALYSIS
KFKI-72-25. MAGYAR TUDOMANYS AKADEMIA KOZPONTI FIZIKAI KUTATO INTEZETE, BUDAPEST, HUNGARY, MARCH
1972. 5P IN RUSSIAN
- 300 72 188 NAGY B
1. CARBON COMPOUNDS IN APOLLO 12 LUNAR SAMPLES. 2. SYMPOSIUM ON GEOLOGY AND GEOCHEMISTRY OF OLDEST
SEDIMENTARY-VOLCANIC SERIES ON EARTH: SWAZILAND SEQUENCE
NATURE, 232. 94, 1971 AND ICARUS, 15. 558, 1971
- 300 72 189 NAIDU AS HOOD DW
CHEMICAL COMPOSITION OF BOTTOM SEDIMENTS OF THE BEAUFORT SEA, ARCTIC OCEAN
RLO-2229-T-1-11. ALASKA UNIV., COLLEGE, INST. OF MARINE SCIENCE, 1971. 17P. CONF-720816-1. FROM 24TH
INTERNATIONAL GEOLOGICAL CONGRESS, MONTREAL, QUEBEC, CANADA, AUG. 21, 1972
- 300 72 190 NALOVIĆ L PINTA M
GEOCHIMIE. COMPORTEMENT DU FER EN PRESENCE DES ELEMENTS DE TRANSITION. ETUDE EXPERIMENTALE:
PRECIPITATION, DESHYDRATATION, DISSOLUTION
COMPT. REND., SER. D. 274. 628, 1972
- 300 72 191 NASCIMBEN P
DISTRIBUTION OF URANIUM IN SOME ITALIAN DEPOSITS OF LIGNITE
IND. MINERARIA, 21. 1-27, 1970 IN ITALIAN

- 300 72 192 NASEDKIN VV
EKSPERIMENTAL'NOE ISSLEDOVANIE MINERALOOBRAZOVANIYA (EXPERIMENTAL INVESTIGATION OF MINERAL FORMATION)
BOOK, IZDATEL'STVO NAUKA, MOSCOW, 1971. 436P
- 300 72 193 NASH WP WILKINSON JF
SHONKIN SAG LACCOLITH, MONTANA. 2. BULK ROCK GEOCHEMISTRY
CONTRIB. MINER. PETROL., 33, NO. 2, XXX, 1971
- 300 72 194 NAUMOV GB MOTORINA ZM NAUMOV VB
CONDITIONS OF FORMATION OF CARBONATES IN VEINS OF THE LEAD-COBALT-NICKEL-SILVER-URANIUM TYPE
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 590, 1971, TRANSLATED FROM GEOKHIMIYA, P938, 1971
- 300 72 195 NAUMOV VB POLYAKOV AI ROMANCHE BP
1. THERMOBAROMETRIC STUDY OF INCLUSIONS IN VOLCANIC ROCKS OF WESTERN RIFT ZONE IN AFRICA. 2.
CRYSTALLIZATION CONDITIONS OF VOLCANIC ROCKS OF EASTERN AFRICA RIFT ZONES ACCORDING TO DATA OF
THERMOBAROMETRIC INVESTIGATIONS
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 234, 1971 AND GEOKHIMIYA, P663, 1972
- 300 72 196 NAZAROV MP POLUARSHINOV GP
CHARACTERISTICS OF DEVELOPMENT OF STRUCTURES CONTROLLING ENDOGENIC URANIUM DEPOSITS IN GRAVITATIONAL
AND MAGNETIC FIELDS
AT. ENERG. (USSR), 31, 60, 1971 IN RUSSIAN
- 300 72 197 NETREBA AV FRIDMAN AI PLOTNIKO IA
ON LARGE SCALE MAPPING OF CLOSED ORE BEARING AREAS IN NORTH CAUCASUS WITH USE OF GAS SURVEYING AS A
GEOCHEMICAL METHOD
GEOKHIMIYA, P1016, 1971
- 300 72 198 NICHOLLS GD
GEOCHEMICAL SAMPLING PROBLEMS IN THE ANALYTICAL LABORATORY
TRANS. INSTN. MIN. METALL., 80, 8299-304, 1971
- 300 72 199 NICOLAS J KOTSCHOU B BILDGEN P
GEOCHIMIE. 1. PRECISIONS SUR LES 'NODULES' RICHES EN NICKEL PRESENTS DANS LES BAUXITES A MUR
KARSTIQUE DE LA MINE DES CODOULS (VAR.) ORIGINE ET MODE DE FORMATION DE CES 'NODULES'. 2.
OBSERVATIONS SUR LA GENESE DES PISOLITHES DES FORMATIONS BAUXITIQUES A MUR KARSTIQUE DE SUD-EST DE
LA FRANCE, EN LIAISON AVEC LES PHENOMENES DE DEFERRIFICATION QUI LES AFFECTENT, EXEMPLE DES
ALPILLES (BOUCHES-D)
COMPT. REND., SER. D, 274, 1449 AND 3496, 1972
- 300 72 200 NISHITA H HAUG RM
DISTRIBUTION OF DIFFERENT FORMS OF NITROGEN IN SOME DESERT SOILS
UCLA-12-860, CALIFORNIA UNIV., LOS ANGELES, LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY, 1965.
24P. NTIS
- 300 72 201 NISSENBA A BAEDECKE MJ KAPLAN IR
ORGANIC GEOCHEMISTRY OF DEAD SEA SEDIMENTS
GEOCHIM. COSMOCHEM. ACTA, 36, 709, 1972
- 300 72 202 NO AUTHOR
GEOCHEMICAL OCEAN SECTIONS STUDY (GEOSECS)
PP 26-8 OF BNWL-1651(PT.2), BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., MAY 1972, IN ANNUAL
REPORT FOR 1971 TO THE USAEC DIVISION OF BIOLOGY AND MEDICINE, VOL. 11, PART 2
- 300 72 203 NO AUTHOR
- PROCEEDINGS OF THE 94TH CONGRESS OF THE LEARNED SOCIETIES, VOLUME 2, MATHEMATICS, PHYSICS, GEOLOGY,
MINERALOGY, CONFERENCE HELD AT PAU, FRANCE, APRIL 8, 1969
BOOK, BIBLIOTHEQUE NATIONALE, PARIS, 1971, 323P IN FRENCH, CONF-690461(VOL.2), 35 PAPERS
- 300 72 204 NO AUTHOR
ATTI DEL CONVEGNO ANNUALE XVIII, NAPOLI, OTTOBRE 1-4, 1969, ASSOCIAZIONE GEOFISICA ITALIANA, PARTE
2, (PROCEEDINGS OF THE 18TH MEETING, NAPLES, OCTOBER 1-4, 1969, ITALIAN GEOPHYSICS SOCIETY, PART 2,
ASSOC. GEOPHIS. ITAL., ATTI CONV. ANNU., 18, 423-871, OCT. 1969, CONF-691063(PT.2), 24 PAPERS
- 300 72 205 NO AUTHOR
DISTRIBUTION OF SOME CHEMICAL ELEMENTS BETWEEN DISSOLVED AND PARTICULATE PHASES IN THE OCEAN
COO-3566-3, PERIOD COVERED, AUG. 1969 - AUG. 1972, WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS.,
1972, 153P, NTIS
- 300 72 206 NO AUTHOR
NUCLEAR TECHNIQUES IN GEOLOGY AND GEOCHEMISTRY, PART 1 AND 2
GJO-935-1(VOL.1), 169PAGES, GJO-935-1(PT.2), 158PAGES, FINAL REPORT, RICE UNIV., HOUSTON, TEXAS,
DEPT. OF GEOLOGY, JUNE 1971, NTIS
- 300 72 207 NO AUTHOR
STUDIES ON THE SWEETWATER GRANITE, WYOMING
PP 289-302 OF GJO-935-1(PT.2), JUNE 1971, IN NUCLEAR TECHNIQUES IN GEOLOGY AND GEOCHEMISTRY
- 300 72 208 NO AUTHOR
HYDROLOGY OF THE PICEANCE BASIN, PROJECT RIO BLANCO
PNE-RB-7, CER GEONUCLEAR CORP., LAS VEGAS, NEVADA, JULY 1971, 79P, NTIS
- 300 72 209 NO AUTHOR
SURTSEY RESEARCH PROGRESS REPORT, 6, PRIMARILY 1969 AND 1970 FIELD SEASONS
TID-26122, SURTSEY RESEARCH SOCIETY, REYKJAVIK, ICELAND, APRIL 1972, 165P, NTIS
- 300 72 210 NO AUTHOR
MARINER 9 IS PAINTING A PICTURE OF MARS AS A GEOCHEMICALLY ACTIVE PLANET (CHEMICAL)
CHEM. ENG. NEWS, 50, NO. 8, 4, 1972
- 300 72 211 NO AUTHOR
APOLLO 14: NATURE AND ORIGIN OF ROCK TYPES IN SOIL FROM THE FRA MAURO FORMATION
EARTH PLANET. SCI. LTRS, 12, 49-54, 1971
- 300 72 212 NO AUTHOR
1. PRELIMINARY EXAMINATION OF LUNAR SAMPLES FROM APOLLO 14. 2. APOLLO 15 LUNAR SAMPLES: A
PRELIMINARY DESCRIPTION. 3. GEOLOGIC SETTING OF THE APOLLO 15 SAMPLES
SCIENCE, 173, 681, 1971, 175, 363, 1972, 10 REFERENCES, AND 175, 407, 1972, 5 REFERENCES

- 300 72 213 NO AUTHOR
GEOLOGICAL SURVEY RESEARCH, 1970 AND 1971
U.S., GEOL. SURV., PROF. PAP., NO. 700-A, 1-426, 1970 AND U.S., GEOL. SURV., PROF. PAP., NO. 750-A,
1-418, 1971
- 300 72 214 NO AUTHOR
SUCCESSES OF SOVIET GEOCHEMISTRY
Z. ANGEW. GEOL., 18, NO. 2, 87, 1972
- 300 72 215 NOONER DW ORD J GIBERT JM
UBIQUITY OF HYDROCARBONS IN NATURE: ALIPHATIC HYDROCARBONS IN WEATHERED LIMESTONE
GEOCHIM. COSMOCHEM. ACTA, 36, 953, 1972
- 300 72 216 NORTON S
GEOCHEMICAL CYCLES INVOLVING FLORA, LAKE WATER, AND BOTTOM SEDIMENTS
PB-206 197, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 300 72 217 NOZHKIN AD
BEHAVIOR OF THE RARE EARTHS AND URANIUM IN VESUVIANITE SKARNS
GEOL. GEOFIZ., NO. 9, 60-5, 1970 IN RUSSIAN
- 300 72 218 C'KEEFE JA
GEOCHEMICAL EVIDENCE FOR THE ORIGIN OF THE MOON
NATURWISSENSCHAFTEN, 59, NO. 2, 45-52, 1972
- 300 72 219 O'KELLEY GD ELDRIDGE JS SCHONFELD E NORTHUTT KJ
1. PRIMORDIAL RADIOELEMENTS AND COSMOGENIC RADIONUCLIDES IN LUNAR SAMPLES FROM APOLLO 15, 2.
RADIOACTIVITY OF LUNAR SAMPLES: APPLICATIONS TO STUDIES OF COSMIC RAY FLUXES, LUNAR SURFACE
PROCESSES, AND PRIMORDIAL RADIOELEMENT DISTRIBUTION
SCIENCE, 175, 440, 1972, 13 REFERENCES AND TRANS. AMER. NUCL. SOC., 15, NO. 1, 137, 1972, FROM 18TH
ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE 18, 1972, CONF-720607
- 300 72 220 OLAFSSON J RILEY JP
SOME DATA ON THE MARINE GEOCHEMISTRY OF RHENIUM
CHEM. GEOL., 9, 227, 1972
- 300 72 221 OSTROVSK EY
POSSIBLE USE OF INFORMATION THEORY CONCEPTS IN GEOCHEMISTRY
GEOKHIMIYA, P982, 1970
- 300 72 222 PACHADZH D
GEOCHEMISTRY OF SEDIMENTARY PROCESSES
SSRV, 3, NO. 1, XXX, 1972
- 300 72 223 PECKETT A PHILLIPS R DROWN GM
LUNAR ROCKS-NEW ZIRCONIUM-RICH MINERALS
NATURE, 236, 215, 1972
- 300 72 224 PEDRO G DELMAS A
GEOCHIMIE, SUR L'ALTERATION EXPERIMENTALE DE L'OLIVINE PAR LESSIVAGE A L'EAU ET LA MISE EN EVIDENCE
DE TROIS GRANDS DOMAINES D'EVOLUTION GEOCHIMIQUE
COMPT. REND., SER. D, 273, 1543, 1971
- 300 72 225 PHILPOTT JA SCHNETSL CC NAVA DF BOTTINO ML FULLAGAR PD
APOLLO 14: SOME GEOCHEMICAL ASPECTS
N72-24885, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972
- 300 72 226 PILLINGER CT CADOGAN PH EGLINTON G
SIMULATION STUDY OF LUNAR CARBON CHEMISTRY
NATURE, PHYS. SCI., 235, 108, 1972
- 300 72 227 PLUMAN II
1. URANIUM CONTENT IN BLACK ARGILLITES OF THE VOLGA STAGE OF THE WEST SIBERIAN PLATFORM AS CRITERION
OF GEOCHEMICAL CONDITIONS OF SEDIMENTATION, 2. URANIUM CONTENT IN BLACK BITUMINIFEROUS ARGILLITES
OF THE UPPER JURASSIC OF THE WEST SIBERIAN PLATFORM
GEOKHIMIYA, P1138 AND P1362, 1971 IN RUSSIAN
- 300 72 228 POLYAKOV AI SOBORNOV OP
THORIUM, URANIUM, AND POTASSIUM DISTRIBUTION IN VOLCANIC ROCKS OF THE EAST AFRICAN RIFT ZONE
GEOKHIMIYA, P1099, 1971 IN RUSSIAN
- 300 72 229 POUBA Z VANECEK M
URANIUM DEPOSITS OF THE CENTRAL AND THE AMERICAN MASSIFS IN FRANCE
GEOL. PRUZYKUM, 12, 268, 1970 IN CZECH
- 300 72 230 RAD VD ASWATHAN U QURESHY MN
TRACE ELEMENT GEOCHEMISTRY OF PARTS OF CLOSEPET GRANITE, MYSORE STATE, INDIA
MINERAL. MAG., 38, 678, 1972
- 300 72 231 REED GW
FRACTIONATED TRACE ELEMENTS IN LUNAR ROCKS AND SOILS
TRANS. AMER. NUCL. SOC., 15, 139, 1972, FROM 18TH ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE 18, 1972,
CONF-720607
- 300 72 232 REED WE
STRATIGRAPHIC CONTROLS ON THE COMPOSITION OF PETROLEUM AND SEDIMENTARY ORGANIC MATTER
LBL-934, THESIS, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., MAY 1972, 296P, NTIS
- 300 72 233 RENARD M BLANC P
GEOCHIMIE, INFLUENCE DES CONDITIONS DE MISE EN SOLUTION (CHOIX DE L'ACIDE, TEMPERATURE, DUREE D'
ATTACHE) DANS LE DOSAGE DES ELEMENTS TRACES DES ROCHES CARBONATES
COMPT. REND., SER. D, 274, 632, 1972
- 300 72 234 RHEAD MM EGLINTON G DRAFFAN GH
HYDROCARBONS PRODUCED BY THERMAL ALTERATION OF CHOLESTEROL UNDER CONDITIONS SIMULATING NATURATION OF
SEDIMENTS
CHEM. GEOL., 8, NO. 4, 277, 1971

- 300 72 235 RINGWOOD AE CLARK SP
INTERNAL CONSTITUTION OF MARS
NATURE, 234, 85, 1971
- 300 72 236 ROMAN RJ BAKER OH
SELECTED PAPERS FROM 1970 URANIUM SYMPOSIUM AT SOCORRO, NEW MEXICO, MAY 5-8, 1970
CIRCULAR 118, NEW MEXICO STATE BUREAU OF MINES AND MINERAL RESOURCES, SOCORRO, 1971, 65P, 6 PAPERS,
CONF-700534
- 300 72 237 RONDY AB MIGDISOV AA
1. GEOCHEMICAL HISTORY OF CRYSTALLINE BASEMENT AND SEDIMENTARY COVER OF RUSSIAN AND NORTH AMERICAN
PLATFORMS. 2. EVOLUTION OF ROCK COMPOSITION AND GEOCHEMICAL PROCESSES IN SEDIMENTARY SHELL OF
EARTH
SEDIMENTOLOGY, 16, NO. 3/4, 137, 1971 AND GEOKHIMIYA, P137 1972
- 300 72 238 SABOURAU C BOURRELL I TOURAY J
GEOCHIMIE. DETERMINATION PAR ACTIVATION NEUTRONIQUE DU RAPPORT CL/BR DANS LES INCLUSIONS FLUIDES DU
GYPSE
COMPT. REND., SER. D, 274, 3161, 1972
- 300 72 239 SACKETT WM COOK G
URANIUM GEOCHEMISTRY OF THE GULF OF MEXICO
TRANS. GULF COAST ASSOC. GEOL. SOC., 19, 233-8, 1969, ORD-3852-2
- 300 72 240 SACKETT WM
GEOCHEMICAL BEHAVIOR OF URANIUM AND THORIUM SERIES NUCLIDES
ORO-3852-7, ANNUAL PROGRESS REPORT, 1971-72, TEXAS AGRICULTURAL AND MECHANICAL UNIV., COLLEGE
STATION, DEPT. OF OCEANOGRAPHY, 1972, 82P, NTIS
- 300 72 241 SAHA AK SANKARAN AV BHATTACHARYA TK
PRELIMINARY STUDY OF THE DISTRIBUTION OF URANIUM AND THORIUM IN THE GRANITIC ROCKS OF SINGHBHUM
PROC. INDIAN NAT. SCI. ACAD., PART A, 36, NO. 6, 392, 1970, CONF-681088-11, FROM SYMPOSIUM ON THE
GEOLOGY AND MINERALOGY OF ATOMIC MINERAL DEPOSITS AND THEIR DEVELOPMENT FOR USE IN THE NUCLEAR
POWER PROGRAM, NEW DELHI, INDIA, OCT. 14, 1968
- 300 72 242 SAXBY JD
ORGANIC MATTER IN RED SEA SEDIMENTS
CHEM. GEOL., 9, 233, 1972
- 300 72 243 SAYYAH TA MAHDY MA
MINERALOGY AND SOME TRACE ELEMENTS GEOCHEMISTRY OF SAMPLES FROM SOUTHWEST ASWAN RADIOACTIVE SYENITE
ROCK WESTERN DESERT
AREAE-138, ATOMIC ENERGY ESTABLISHMENT, CAIRO, EGYPT, GEOLOGY AND RAW MATERIALS DEPT., 1972, 22P,
NTIS
- 300 72 244 SCHMITT RA
CHEMICAL COMPOSITION OF THE MOON
TRANS. AMER. NUCL. SOC., 15, 137, 1972, FROM 18TH ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE 18, 1972,
CONF-720607
- 300 72 245 SCHNETZLER CC NAVA DF PHILPOTTS JA SCHUMMANN S THOMAS HM
1. CHEMICAL COMPOSITION OF APOLLO 14 SOILS 14163 AND 14259. 2. GEOCHEMISTRY OF APOLLO 15 BASALT
15555 AND SOIL 15531
EARTH PLANET. SCI. LTRS, 11, 345, 1971 AND SCIENCE, 175, 426, 1972, 12 REFERENCES
- 300 72 246 SERRANO DD

RADIOACTIVITY MEASUREMENTS IN SEDIMENTARY EARTH
ENERG. NUCL. (MADRID), 15, 413, 1971 IN SPANISH
- 300 72 247 SHARMA KK
SOME OBSERVATIONS ON URANIUM-COPPER RELATIONSHIP IN THE SURDA COPPER MINES AND THEIR BEARING ON THE
ZONING OF MINERALIZATION IN THE SINGHBHUM THRUST BELT, BIHAR
PROC. INDIAN NAT. SCI. ACAD., PART A, 36, 319, 1970, CONF-681088-5, FROM SYMPOSIUM ON THE GEOLOGY
AND MINERALOGY OF ATOMIC MINERAL DEPOSITS AND THEIR DEVELOPMENT FOR USE IN THE NUCLEAR POWER
PROGRAM, NEW DELHI, INDIA, OCT. 14, 1968
- 300 72 248 SHATKOV GA SHATKOVA LN GUSHCHIN EN
DISTRIBUTION OF URANIUM, THORIUM, FLUORINE, CHLORINE, MOLYBDENUM, AND NIOBIUM IN LIPARITES AND ACID
VOLCANIC GLASSES
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 7, 1051, 1970, TRANSLATED FROM GEOKHIMIYA, P1051, 1970
- 300 72 249 SHCHERBA IB LATYSH IK
ON GEOCHEMISTRY OF GOLD IN ROCKS OF UKRAINIAN SHIELD CENTRAL REGION
DOPOV. AKAD. NAUK. UKR. RSR, SER. B, NO. 2, 129, 1972 IN RUSSIAN
- 300 72 250 SHCHERBAKOV DI
OCHERKI PO GEOLOGII I GEOKHIMII RUDNYKH MESTOROZHDENII (ESSAYS ON THE GEOLOGY AND GEOCHEMISTRY OF
ORE DEPOSITS)
BOOK, IZDATEL'STVO NAUKA, MOSCOW, 1970, 316P
- 300 72 251 SHCHERBI VV URUSOV VS GERASIMOV VI
1. GEOCHEMISTRY OF TITANIUM. 2. ISOMORPHOUS PATHS OF MANGANESE
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 305, 1971 AND GEOKHIMIYA, NO. 12, XXX, 1971
- 300 72 252 SHEININA GA YAKOVLEV SZ
ON INVESTIGATION OF A CORRELATION ACCORDING TO HETEROGENEOUS GEOCHEMICAL AGGREGATES
GEOKHIMIYA, P498, 1972 IN RUSSIAN
- 300 72 253 SHIMIZU N AKIMOTO S
PARTITIONING OF STRONTIUM BETWEEN CLINOPYROXENE AND LIQUID AT HIGH PRESSURES: PRELIMINARY
EXPERIMENTS
EARTH PLANET. SCI. LTRS, 13, 134, 1971
- 300 72 254 SHMAKIN BM
ON ROLE OF PRESSURE IN GEOCHEMICAL SPECIALIZATION OF GRANITES AND PEGMATITES
GEOKHIMIYA, NO. 12, XXX, 1971 IN RUSSIAN
- 300 72 255 SHMARIOVICH EM
PROBLEM OF EPIGENETIC ZONALITY IN URANIUM ORE DEPOSITS OF CARBONATE ROCKS
LITOL. POLEZ. ISKOP., NO. 4, 105, 1971 IN RUSSIAN

- 300 72 256 SHOWALTER DL
COMPOSITION TRENDS IN AUSTRALITES, IMPACT GLASSES, AND ASSOCIATED NATURAL MATERIALS BY ACTIVATION ANALYSIS
THESIS. UNIV. OF KENTUCKY, LEXINGTON, 1970. 188P. UNIV. MICROFILMS ORDER NO. 71-8600
- 300 72 257 SHOWALTER DL WAKITA H SMITH RH
CHEMICAL COMPOSITION OF SAUDUST FROM LUNAR ROCK 12013 AND COMPARISON OF A JAVA TEKITE WITH THE ROCK
SCIENCE, 175. 170, 1972
- 300 72 258 SHURUBOR IV
ON A PROPERTY OF DEGREE OF GEOCHEMICAL SYSTEM COMPLEXITY
DOKL. AKAD. NAUK SSSR, 205. 453, 1972 IN RUSSIAN
- 300 72 259 SIDORENK AV TENIAKOV VA ROZEN OM
ON GEOCHEMISTRY OF HYPERGENESIS IN EARLY PRECAMBRIAN
DOKL. AKAD. NAUK SSSR, 201. 678, 1971 IN RUSSIAN
- 300 72 260 SIEVERS RE EISENTRA KJ GRIEST OJ RICHARDS MF
VARIATIONS IN BERYLLIUM AND CHROMIUM CONTENTS IN LUNAR FINES COMPARED WITH CRYSTALLINE ROCKS
AD-736 637. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 300 72 261 SILADI M
GEOCHEMICAL ROLE OF STANDARD POTENTIAL IN INTERACTION OF HUMIC MATTER WITH METALS
GEOKHIMIYA, P618, 1972 IN RUSSIAN
- 300 72 262 SILVERMA A
A GEOLOGIC, GEOCHEMICAL, AND SEDIMENTOLOGIC STUDY OF FLATHEAD LAKE, MONTANA
PB-210 588. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1972
- 300 72 263 SKVORTSOVA KV MODNIKOV IS
ROLE OF STRUCTURAL AND MORPHOLOGICAL FACTORS IN FORMING HYPERGENESIS ZONES OF FRACTURE TYPE IN
URANIUM-MOLYBDENUM DEPOSITS
AT. ENERG. (USSR), 31. 453, 1971 IN RUSSIAN
- 300 72 264 SLATT RM
1. GEOCHEMISTRY OF MELT-WATER STREAMS FROM NINE ALASKAN VALLEY GLACIERS. 2. SEDIMENTOLOGICAL AND
GEOCHEMICAL ASPECTS OF SEDIMENT AND WATER FROM TEN ALASKAN VALLEY GLACIERS
GEOL. SOC. AMER., BULL., 83. 1125, 1972 AND PR-206 153. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1970
- 300 72 265 SMITH FG
SIZE OF ITEMS OF PRIMARY INFORMATION FOR RESEARCH IN PHYSICAL GEOCHEMISTRY
CAN. J. EARTH SCI., 8. 1033, 1971
- 300 72 266 SMYSLOV AA
REGULARITIES IN THE DISTRIBUTION AND MIGRATION OF URANIUM AND THORIUM IN ORES OF THE EARTH'S CRUST
TR. VSES. NAUCH.-ISSLED. GEOL. INST., 164. 5-32, 1968 IN RUSSIAN
- 300 72 267 SOLOV'EV NN STRELKINA EM
REGULARITIES IN THE DISTRIBUTION OF ELEMENTS ASSOCIATED WITH URANIUM IN DEPOSITS OF RARE METALS
IZV. VYSSE. UCHEB. ZAVED., GEOL. RAZVED., 14. 35, 1971 IN RUSSIAN
- 300 72 268 SPALDING RF SACKETT WM
URANIUM IN RUNOFF FROM THE GULF OF MEXICO DISTRIBUTIVE PROVINCE: ANOMALOUS CONCENTRATIONS
SCIENCE, 175. 629, 1972
- 300 72 269 STERNBERG RW
SYNOPTIC MEASUREMENTS OF CURRENTS AND SEDIMENT TRANSPORT ON THE CONTINENTAL SHELF
RLO-2225-T-21-6. ANNUAL PROGRESS REPORT. WASHINGTON UNIV., SEATTLE, APRIL 1972. 7P. NTIS
- 300 72 270 STEVENSON FJ CHENG C
ORGANIC GEOCHEMISTRY OF ARGENTINE BASIN SEDIMENTS: CARBON-NITROGEN RELATIONSHIPS AND QUATERNARY
CORRELATIONS
GEODCHIM. COSMOCHIM. ACTA, 36. 653, 1972
- 300 72 271 STONE DB
PALEOMAGNETIC STUDIES ON ANCHITKA ISLAND
RLO-2216-1. FINAL REPORT. ALASKA UNIV., COLLEGE. GEOPHYSICAL INST., MAY 1972. 100P. NTIS
- 300 72 272 STUSSI JM
GEOCHEMISTRY OF U AND TH IN THE VOLCANIC ROCKS OF THE MERIDIONAL VOSGES
PP 229-40 OF PROCEEDINGS OF THE 94TH CONGRESS OF THE LEARNED SOCIETIES. VOL. 2. BIBLIOTHEQUE
NATIONALE, PARIS, 1971 IN FRENCH. FROM 94TH CONFERENCE, PAU, FRANCE, APRIL 8, 1969.
CONF-690461(VOL.2)
- 300 72 273 SUMMERHA CP
GEOCHEMISTRY OF CONTINENTAL MARGIN SEDIMENTS FROM NORTHWEST AFRICA
CHEM. GEOL., 10. 137, 1972
- 300 72 274 SURDAM RC PARKER RB
AUTHIGENIC ALUMINOSILICATE MINERALS IN TUFFACEOUS ROCKS OF GREEN RIVER FORMATION, WYOMING
GEOL. SOC. AMER., BULL., 83. 689, 1972
- 300 72 275 SUTURIN AN KORNAKOV YN PARSHIN AP
FORMATION DIAGNOSTICS OF ULTRABASIC MASSIFS ACCORDING TO A COMPLEX OF GEOCHEMICAL CHARACTERISTICS
GEOKHIMIYA, P365, 1972 IN RUSSIAN
- 300 72 276 SYERS JK MOKMA DL JACKSON ML DOLCATER DL REX RW
MINERALOGICAL COMPOSITION AND CS(137) RETENTION PROPERTIES OF CONTINENTAL AEROSOLIC DUSTS
SOIL SCI., 113. NO. 2. 116, 1972
- 300 72 277 SYROMYATNIKOV NG TROFIKOVA LA YARENSKAYA MA
URANIUM AND THORIUM AS INDICATORS OF PROCESSES OF FORMATION OF PYRITE-POLYMETALLIC ORES ON THE
MUKAIN DEPOSIT (CENTRAL KAZAKHISTAN)
GEOKHIMIYA, P846, 1971 IN RUSSIAN
- 300 72 278 SZILAGYI M
GEOCHEMICAL ROLE OF STANDARD POTENTIAL IN REACTIONS BETWEEN HUMIC SUBSTANCES AND METALS
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 9. 402, 1972

- 300 72 279 TANAKA S SAKAMOTO K KOMURA K
AL(26) AND MN(53) PRODUCED BY SOLAR FLARE PARTICLES IN LUNAR ROCK AND COSMIC DUST
J. GEOPHYS. RES., 77, 4281, 1972
- 300 72 280 TARDY Y
CHARACTERIZATION OF PRINCIPAL WEATHERING TYPES BY GEOCHEMISTRY OF WATERS FROM SOME EUROPEAN AND
AFRICAN CRYSTALLINE MASSIFS
CHEM. GEOL., 7, NO. 4, 253, 1971
- 300 72 281 TENYAKOV VA RAKOVSKII EE FILIPPOVA TP
ABUNDANCE AND CERTAIN GENERAL CHARACTERISTICS OF THE GEOCHEMISTRY OF GOLD IN BAUXITES (ON THE BASIS
OF NEUTRON ACTIVATION ANALYSIS)
DOKL. AKADE. NAUK SSSR, 195, 456, 1970 IN RUSSIAN
- 300 72 282 TIKHOMOL T SOKOLOV V
PETROLEUM GEOCHEMISTRY
SSRV, 3, NO. 2, 102, 1972
- 300 72 283 TREIBER I SZABO A BEDELEAN I CCRDIS V
RADIOACTIVITY OF MESOZOIC ROCK IN APUSENI MOUNTAINS
STUD. UNIV. BABES-BOLYAI, SER. GEOL. MINERAL., 15, NO. 1, 13, 1970 IN RUMANIAN
- 300 72 284 TUGARINO AI NAUMOV VB
PHYSICO-CHEMICAL PARAMETERS OF HYDROTHERMAL MINERAL FORMATION
GEOKHIMIYA, P259, 1972 IN RUSSIAN
- 300 72 285 TUTAROVA AB
BACKGROUND RADIOACTIVITY OF THE GROUND WATERS OF THE UKRAINE
GEOL. Zh. (RUSS. ED.), 31, NO. 1, 91, 1971
- 300 72 286 UDAS GR KRISHNAMURTHY P
CARBONATITES OF SEVATHUR AND JOKIPATTI, MADRAS STATE, INDIA
PROC. INDIAN NAT. SCI. ACAD., PART A, 36, 331, 1970. CONF-681088-6, FROM SYMPOSIUM ON THE GEOLOGY
AND MINERALOGY OF ATOMIC MINERAL DEPOSITS AND THEIR DEVELOPMENT FOR USE IN THE NUCLEAR POWER
PROGRAM, NEW DELHI, INDIA, OCT. 14, 1968
- 300 72 287 VARGA LP RICE GK TOETZ DW LUGHRAN ED DORRIS TC
1. COMPARTMENTED AQUATIC MODEL OF THE RELATIONSHIP BETWEEN CARBONATE AND NITRATE IN A GREAT PLAINS
RESERVOIR. 2. BIOGEOCHEMISTRY OF A RESERVOIR ECOSYSTEM
1. CONF-720433-1, OKLAHOMA STATE UNIV., STILLWATER, AND LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO,
1971. 43P. FROM WATER, AIR, AND WASTE CHEMISTRY CONFERENCE, BOSTON, MASS., APRIL 1972. 2.
ORD-4254-2. REPORT NO. 3, SEPT. 1971 - JUNE 1972, OKLAHOMA STATE UNIV., STILLWATER, 1972. 37P
- 300 72 288 VARNE R GRAHAM AL
RARE EARTH ABUNDANCES IN HORNBLende AND CLINOPYROXENE OF A HORNBLende LHERZOLITE XENOLITH:
IMPLICATIONS FOR UPPER MANTLE FRACTIONATION PROCESSES
EARTH PLANET. SCI. LTRS, 13, 11, 1971
- 300 72 289 VASIL'EVA VI
RADIOACTIVE ANOMALIES OF CRUST-PROPER TYPE
IZV. AKADE. NAUK SSSR, SER. GEOL., NO. 9, 126, 1970 IN RUSSIAN
- 300 72 290 VINOGRADOV AP
1. PRELIMINARY DATA ON LUNAR REGOLITH RETURNED BY LUNA 16 AUTOMATIC PROBE. 2. PRELIMINARY DATA ON
LUNA SOIL SUPPLIED BY AUTOMATIC STATION LUNA 16. 3. LUNOKHOD-1, MOBILE LUNAR LABORATORY. 4.
PRELIMINARY RESULTS OF LUNAR SOIL STUDY
1. GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 304, 1971 AND N71-29252. 2. N71-31331, 1971. 3.
JPRS-54525, N72-18243, AND AD-736 486. 4. N72-21861, 1972. NATIONAL TECHNICAL INFORMATION SERVICE
(NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151
- 300 72 291 VORONOV AN
REPLY TO E. YA. OSTROVSKIY'S NOTE 'ON POSSIBLE USE OF INFORMATION THEORY CONCEPTS IN GEOCHEMISTRY'
GEOKHIMIYA, P985, 1970
- 300 72 292 VOSTROKN GA
THEORETICAL PRINCIPLES OF METHODS OF NORMALIZING CONTENT OF ELEMENTS DURING GEOCHEMICAL
INVESTIGATIONS
GEOKHIMIYA, P479, 1972 IN RUSSIAN
- 300 72 293 WALKER RM ZIMMERMAN D
1. FOSSIL TRACK AND THERMOLUMINESCENCE STUDIES OF LUNA 16 MATERIAL. 2. FOSSIL PARTICLE TRACKS IN
EXTRATERRESTRIAL MATERIALS
1. EARTH PLANET. SCI. LTRS, 13, 419, 1972. 2. PP VII.2-25 OF PROCEEDINGS OF THE INTERNATIONAL
TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN INSULATING SOLIDS AND APPLICATIONS, HELD AT
CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969, VOL. 2, ISABELLE, C. (ED.), UNIVERSITE DE
CLERMONT-FERRAND, FRANCE, 1969. CONF-690522(VOL.2)
- 300 72 294 WARREN CG
METHOD FOR DISCRIMINATING BETWEEN BIOGENIC AND CHEMICAL ORIGINS OF THE ORE-STATE PYRITE IN A
ROLL-TYPE URANIUM DEPOSIT
ECON. GEOL., 66, 919, 1971
- 300 72 295 WASSERBURG GJ
MOON AND SEPENCE OF SCIENCE
ASTRONAUT. AERONAUT., P16, 1972
- 300 72 296 WASSON JT
VOLATILE ELEMENTS ON THE EARTH AND THE MOON
EARTH PLANET. SCI. LTRS, 11, 219, 1971
- 300 72 297 WEBER F
PRECAMBRIAN SERIES IN GABON: FRANCEVILLIAN, SEDIMENTOLOGY, GEOCHEMISTRY, AND RELATION WITH
ASSOCIATED MINERAL DEPOSITS
CEA-R-4054, THESIS, STRASBOURG UNIV., FRANCE, MARCH 1971. 339P IN FRENCH. NTIS. COMMISSARIAT A L'
ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 300 72 298 WETHERIL GW
BEGINNING OF CONTINENTAL EVOLUTION
TECTONOPHYS., 13, NO. 1/4, 31, 1972

- 300 72 299 WILKNISS PE WARNER TB CARR RA
SOME ASPECTS OF GEOCHEMISTRY OF F, FE, AND MN IN COASTAL WATERS AND IN FRESH WATER SPRINGS ON
SOUTHEAST COAST OF HAWAII
MAR. GEOL., 11. NO. 4, M39, 1971
- 300 72 300 WILLIAMS C BROWN G
URANIUM CONTENT OF PEATY SOILS RICH IN MOLYBDENUM AND SELENIUM FROM CO. LIMERICK, EIRE
GEODERMA, 6. NO. 3, 223, 1971
- 300 72 301 WINCHELL H
RATIO CORRELATION: A MANUAL FOR STUDENTS OF PETROLOGY AND GEOCHEMISTRY BY FELIX CHAYES
AMER. J. SCI., 272. 387, 1972
- 300 72 302 WOLFSON MM
ORIGIN OF PLANETARY SYSTEMS
PHYS. BULL. (LONDON), 22. 266, 1971. 27 REFERENCES
- 300 72 303 YAKOVLEV PD
VARIOUS STRUCTURAL TYPES OF THE MOLYBDENUM-URANIUM ORES
IZV. AKADE. NAUK SSSR, SER. GEOL., NO. 8, 56, 1970 IN RUSSIAN
- 300 72 304 YIN LI GHOSE S ADLER I
INVESTIGATION OF A POSSIBLE SOLAR WIND DARKENING OF THE LUNAR SURFACE BY PHOTOELECTRON SPECTROSCOPY
J. GEOPHYS. RES., 77, 1360, 1972
- 300 72 305 ZHIROV KK KRAVCHEN EV KRAVCHEN MP
ABOUT GEOCHEMISTRY OF GASEOUS COMPONENT OF SULPHIDE ORE PROCESS
GEOKHIMIYA, P447, 1972 IN RUSSIAN
- 300 72 306 ZHUKOVA AM
RADIOACTIVE ELEMENTS IN ROCKS AND MINERALS OF THE TOKOV GRANITE MASSIF
GEOFIZ. SB. AKADE. NAUK UKR. SSR, INST. GEOFIZ., NO. 37, 56, 1970 IN RUSSIAN
- 300 72 307 ZOLOTAREV BP SEMENOV GS
PECULIARITIES OF THORIUM, URANIUM, AND POTASSIUM DISTRIBUTION IN THOLEIITIC-BASALTIC FORMATION ROCKS
SOV. GEOL., NO. 12, 29-41, 1970 IN RUSSIAN
- 300 72 308 ZORKIN LM STADNIK EV SOSHNIKO VK
GEOCHEMISTRY OF GASES OF UNDERGROUND WATER FROM TERRIGENOUS DEVONIAN SEDIMENTS OF RUSSIAN PLATFORM
DOKL. AKADE. NAUK SSSR, 007. 004. 1070 IN RUSSIAN
- 305 72 001 ADAMS JAS BARRETTO PM CLARK RB DUVAL JS
RN(222) EMANATION AND THE HIGH APPARENT LEAD ISOTOPE AGES IN LUNAR DUST
NATURE, 231. 174, 1971
- 305 72 002 AITKEN MJ ALLORED JC (2)
1. PHYSICS APPLIED TO ARCHAEOLOGY. 1. DATING, 2. ASSESSMENT OF ERROR LIMITS IN THERMOLUMINESCENT
DATING
REP. PROGR. PHYS., 33. 941, 1970. 236 REFERENCES, AND ARCHAECOMETRY, 14. 257, 1972
- 305 72 003 ALEXANDER EC DAVIS PK LEWIS RS
AR(40)-AR(39) DATING OF APOLLO SAMPLE 15555
SCIENCE, 175. 417, 1972. 15 REFERENCES
- 305 72 004 ALLEGRE CJ BIRCK JL LOUBET M PROVOST A
RESULTS FROM THE SOVIET LUNA 16 MISSION: RB(87)-SR(87) AGE ESTIMATION AND K, RB, SR, BA, AND RARE
EARTHS CONTENTS FROM THE MARE FOECUNDITATIS SURFACE
COMPT. REND., SER. D, 273. 779, 1971 IN FRENCH
- 305 72 005 ANDERSEN CA HINTHORNE JR
U, TH, PB, AND REE ABUNDANCES AND PB(207)/PB(206) AGES OF INDIVIDUAL MINERALS IN RETURNED LUNAR
MATERIAL BY ION MICROPROBE MASS ANALYSIS
EARTH PLANET. SCI. LTRS, 14. 195, 1972
- 305 72 006 AUDOUZE J SCHRAMM ON
SM(146): A CHRONOMETER FOR P-PROCESS NUCLEOSYNTHESIS
NATURE, 237. 447, 1972
- 305 72 007 BECKINSALE RD GALE NH
PRESENT STATUS OF THE BETA DECAY IN USE IN GEOCHRONOLOGY
ANN. SOC. GEOL. BELG., 94, NO. 2, 102, 1971. CONF-710953-1. FROM EUROPEAN CONFERENCE OF
GEOCHRONOLOGY, BRUSSELS, BELGIUM, SEPT. 6, 1971
- 305 72 008 BERNARD GR
GEOCHRONOLOGIE. AGE ORDOVICIEN POUR UNE PHASE DE METAMORPHISME IMPORTANTE DES PARAGNEISS OU
BASIMOUSIN (MASSIF CENTRAL FRANCAIS)
COMPT. REND., SER. D, 274. 796, 1972
- 305 72 009 DHANDARI N DIAT GG LAL D
FISSION FRAGMENT TRACKS IN APATITE: RECORDABLE TRACK LENGTHS
EARTH PLANET. SCI. LTRS, 13. 191, 1971
- 306 72 010 BOECKL RS
SEARCH FOR C(14) IN TEKTITES
J. GEOPHYS. RES., 77. 367, 1972
- 306 72 011 BOGDANOV YV ISKANDEROVA AO LPOVSKII IK
AGE OF CUPROUS UDOKAN SERIES (OLEKMOVITIM MOUNTAIN SYSTEM) BY URANIUM-LEAD METHOD
IZV. AKADE. NAUK SSSR, SER. GEOL., NO. 9, 29, 1971 IN RUSSIAN
- 305 72 012 BREXETON NR
REAPPRAISAL OF AR(40)/AR(39) STEPWISE DEGASSING TECHNIQUE
GEOPHYS. J. ROY. ASTRON. SOC., 27. 449, 1972
- 305 72 013 BROTHWELL D HIGGS E
SCIENCE IN ARCHAEOLOGY, A SURVEY OF PROGRESS AND RESEARCH
BOOK, THAMES AND HUDSON, LONDON, 1971. 720P
- 305 72 014 BUCKLEY JD WILLIS EH
ISOTOPES' RADIOCARBON MEASUREMENTS. IX
RADIOCARBON, 14. 114, 1972

- 305 72 015 CHESSELEY R
RADIOISOTOPE DATING IN MARINE SEDIMENTATION RESEARCH
MOUILLE BLANCHE, 25. 765. 1970 IN FRENCH. CONF-691135-1. FROM CONFERENCE ON THE APPLICATIONS OF
RADIOELEMENTS IN SEDIMENTOLOGY. PARIS. FRANCE. NOV. 18. 1969
- 305 72 016 CHESSEX R BUCHS A ALLAART JH
U-PB ISOTOPIC AGES OF ZIRCONS FROM PRECAMBRIAN ROCKS OF SOUTH GREENLAND
GROENLANDS GEOL. UNDERS. RAPPORT. NO. 42. 12P. 1971
- 305 72 017 CHRISTODOULIDES C FREMLIN JH
THERMOLUMINESCENCE OF BIOLOGICAL MATERIALS
NATURE. 232. 257. 1971
- 305 72 018 COMPTON W
RB-SR GEOCHRONOLOGY: AN APPLICATION OF TWO ERROR REGRESSION ANALYSIS
PP 29-33 OF DATA REPRESENTATION. ANDERSSON, R.S. (ED.). UNIV. OF QUEENSLAND PRESS. ST. LUCIA,
AUSTRALIA. 1970. FROM SEMINAR ON DATA REPRESENTATION. CANBERRA. DEC. 10. 1969
- 305 72 019 COMPTON W VERNON MJ BERRY H RUDOWSKI R
AGE OF THE FRA MAURO FORMATION: A RADIOMETRIC OLDER LIMIT
EARTH PLANET. SCI. LTRS. 12. 55. 1971
- 305 72 020 COPPENS R KOSZTOLANYI C
ALPHA RADIOACTIVITY AND URANIUM AND THORIUM CONTENTS OF SIX LUNAR SAMPLES: AGE OF A SAMPLE OF A
LUNAR SOIL (APOLLO XI)
ANNA. SOC. GEOL. BELG. 94. NO. 2. 109. 1971. CONF-710953-3. FROM EUROPEAN CONFERENCE OF
GEOCHRONOLOGY. BRUSSELS. BELGIUM. SEPT. 6. 1971
- 305 72 021 DAMON PE
CORRELATION AND CHRONOLOGY OF ORE DEPOSITS AND VOLCANIC ROCKS
COO-689-136. FINAL REPORT. 1959-1971. ARIZONA UNIV. TUCSON. 1971. 11P. NTIS
- 305 72 022 DASCH EJ HILLS FA
DISTINGUISHING MODERN FROM RELICT WEATHERING PROFILES
NATURE. PHYS. SCI. 236. 73. 1972
- 305 72 023 DUEX TW
K-AR AGE DATES AND U-K GEOCHEMISTRY OF THE GUEYDAN (CATAMOLA) FORMATION OF SOUTH TEXAS
PP 101-53 OF GJO-935-1 (PT.1). JUNE 1971. IN NUCLEAR TECHNIQUES IN GEOLOGY AND GEOCHEMISTRY
- 305 72 024 DURRANI SA KHAN HA TAJ M (3) RENFREW C (3)
1. IVORY COAST MICROTEKTITES: FISSION TRACK AGE AND GEOMAGNETIC REVERSALS. 2. IVORY COAST
MICROTEKTITES: CORRECTED VALUES OF URANIUM CONTENT. 3. OBSIDIAN SOURCE IDENTIFICATION BY FISSION
TRACK ANALYSIS
NATURE. 232. 320. 1971. NATURE. PHYS. SCI. 232. 175. 1971. AND NATURE 233. 242. 1971
- 305 72 025 EBERHARDT P GEISS J GROEGLER N
POTASSIUM-ARGON AGE OF APOLLO 11 ROCK 10003
EARTH PLANET. SCI. LTRS. 11. 245. 1971
- 305 72 026 FAIRHALL AW YOUNG JA
RADIOCARBON IN THE ENVIRONMENT
ADVANCE. CHEM. SER. NO. 93. 401-18. 1970. FROM MEETING ON RADIOISOTOPES IN THE ENVIRONMENT. SAN
FRANCISCO. CALIF. APRIL 1. 1968
- 305 72 027 FAIRHALL AW BRADFORD PA YANG IC YOUNG AW
C(14) IN THE SOUTHERN OCEANS FROM NUCLEAR BOMBS
ANTARCTIC J. U.S. 6. NO. 5. 163. 1971
- 305 72 028 FAIRHALL AW YOUNG AW BRADFORD PA
1. RADIOCARBON IN THE SEA. 2. RADIOCARBON IN THE SEA. 3. C(14) CONCENTRATIONS IN THE SOUTHERN OCEANS
1. RLO-2225-T-20-5. PROGRESS REPORT. MAY 1971 - MAY 1972. 30P. 2. RLO-2225-T-20-6. 1971. 14P.
CONF-721019-1. FROM INTERNATIONAL RADIOCARBON DATING CONFERENCE. WELLINGTON. NEW ZEALAND. OCT. 18.
1972. 3. RLO-2225-T-20-7. 1970. 4P. WASHINGTON UNIV. SEATTLE. DEPT. OF CHEMISTRY. NTIS
- 305 72 029 FISHER DE
1. URANIUM CONTENT AND RADIOGENIC AGES OF HYPERSTHENE, BRONZITE, AMPHOTERITE, AND CARBONACEOUS
CHONDRITES. 2. U/HE AGES AS INDICATORS OF EXCESS ARGON IN DEEP SEA BASALTS
GEOCHIM. COSMOCHEM. ACTA. 36. 15. 1972 AND EARTH PLANET. SCI. LTRS. 14. 255. 1972
- 305 72 030 FLEISCHER RL VIERTL JRM PRICE PB AUMENTO F
CHRONOLOGICAL TEST OF OCEAN BOTTOM SPREADING IN THE NORTH ATLANTIC
RADIAT. EFF. 11. 193. 1971 AND PP VI. 14-19 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE
ON NUCLEAR TRACK REGISTRATION IN INSULATING SOLIDS AND APPLICATIONS. HELD AT CLERMONT-FERRAND.
FRANCE. MAY 6-9. 1969. VOL. 2. ISABELLE. D. (ED.). UNIVERSITE DE CLERMONT-FERRAND. 1969.
CONF-690522 (VOL.2)
- 305 72 031 FLEMING SJ
THERMOLUMINESCENT DATING PRINCIPLES AND APPLICATION
NATURWISSENSCHAFTEN. 58. 333. 1971
- 305 72 032 GOEKSU MY FREMLIN JH
THERMOLUMINESCENCE FROM UNIRRADIATED FLINTS: REGENERATION THERMOLUMINESCENCE
ARCHAEOLOGY. 14. 127. 1972
- 305 72 033 GREY DC
C(14) DATA AND THE LASCHAMP REVERSED EVENT
J. GEOMAGNET. GEOELEC. 23. 123. 1971
- 305 72 034 GUPTA ML MEHTA PP NAGPAUL KK
FISSION TRACK AGES OF SOME INDIAN BIOTITES
INDIAN J. PURE APPL. PHYS. 9. 466. 1971
- 305 72 035 HAILE NS BIGNELL JD
LATE CRETACEOUS AGE BASED ON K/AR DATES OF GRANITIC ROCK FROM THE TAMBELAN AND BUNGURAN ISLANDS.
SUNDA SHELF. INDONESIA
GEOL. MIJNBODUW. 50. 687. 1971
- 305 72 036 HAILWOOD EA MITCHELL JG
PALAEOMAGNETIC AND RADIOMETRIC DATING RESULTS FROM JURASSIC INTRUSIONS IN SOUTH MOROCCO
GEOPHYS. J. ROY. ASTRON. SOC. 24. 351. 1971

- 305 72 037 HAINES EL ALBEE AL CHODDS AA WASSERBURG GJ
URANIUM BEARING MINERALS OF LUNAR ROCK 12013
EARTH PLANET. SCI. LTRS. 12. 145. 1971
- 305 72 038 HANSON GN CATANZARO EJ ANDERSON DM
U-PB AGES FOR SPHENE IN A CONTACT METAMORPHIC ZONE
EARTH PLANET. SCI. LTRS. 12. 231. 1971
- 305 72 039 HERZOG GF ANDERS E
ABSOLUTE SCALE FOR RADIATION AGES OF STONY METEORITES
GEOCHIM. COSMOCHIM. ACTA. 35. 605. 1971
- 305 72 040 HOWELL FC COLE GH KLEINDIENST MR SZABO BJ OAKLEY KP
URANIUM-SERIES DATING OF BONE FROM THE ISIMILA PREHISTORIC SITE, TANZANIA
NATURE. 237. 51. 1972
- 305 72 041 HURLEY PM LEO GW WHITE RW
LIBERIAN AGE PROVINCE (ABOUT 2,700 M.Y.) AND ADJACENT PROVINCES IN LIBERIA AND SIERRA LEONE
GEOL. SOC. AMER., BULL., 82. NO. 12. XXX. 1971
- 305 72 042 HUSAIN L SUTTER JF SCHAEFFER OA
1. AGES OF CRYSTALLINE ROCKS FROM FRA MAURO. 2. AGE OF A LUNAR ANORTHOSITE
SCIENCE. 173. 1235. 1971 AND 175. 428. 1972. 16 REFERENCES
- 305 72 043 HUTCHESON ID PRICE PB
PU(244) FISSION TRACKS: EVIDENCE IN A LUNAR ROCK 3.95 BILLION YEARS OLD
SCIENCE. 176. 509. 1972
- 305 72 044 IWAKURA T
ESTIMATION OF PRESENT AND FUTURE LEVELS OF EXCESS C(14) IN THE ENVIRONMENT FROM THE NUCLEAR TESTS.
1. SIX RESERVOIRS MODEL
HOKEN BUTSURI (J. JAPAN HEALTH PHYS. SOC.), 7. 7-14. 1972
- 305 72 045 JONES LM OESTLUND HG
C(14) AGE AND TRITIUM CONTENT OF LAKE VANDA, WRIGHT VALLEY
ANTARCTIC J. U.S., 6. NO. 5. 200. 1971
- 305 72 046 KANEOKA I
EFFECT OF HYDRATION ON K/AR AGES OF VOLCANIC ROCKS
EARTH PLANET. SCI. LTRS. 14. 216. 1972
- 305 72 047 KAUFMAN A
U-SERIES DATING OF DEAD SEA BASIN CARBONATES
GEOCHIM. COSMOCHIM. ACTA. 35. NO. 12. XXX. 1971
- 305 72 048 KRAUSHAAR J ACKERMANN W
AGE DETERMINATION OF THE GLASS PORTION OF EFFUSIVE ROCKS USING SPONTANEOUS NUCLEAR FISSION TRACKS OR
U(238)
AUFSCHLUSS. 21. NO. 9. 284. 1970 IN GERMAN
- 305 72 049 KRESTIN EM SHANIN LL ARAKELIA MM
AGE OF TRAPPEAN FORMATION IN CRYSTALLINE BASEMENT OF CENTRAL REGIONS OF RUSSIAN PLATFORM
DOKL. AKAD. NAUK SSSR. 204. 677. 1972 IN RUSSIAN
- 305 72 050 KRISHNAMOORTHY TM SASTRY VN SARMA TP
U(234)/U(238) AS A TOOL FOR DATING MARINE SEDIMENTS

CURR. SCI. (INDIA). 40. NO. 11. 279. 1971
- 305 72 051 LONGIN R
NEW METHOD OF COLLAGEN EXTRACTION FOR RADIOCARBON DATING
NATURE. 230. 241. 1971
- 305 72 052 MACDOUGALL D
FISSION TRACK DATING OF VOLCANIC GLASS SHARDS IN MARINE SEDIMENTS
EARTH PLANET. SCI. LTRS. 10. 403. 1971
- 305 72 053 MATHEWS TD FREDERIC AD SACKETT WM
TEXAS A AND M UNIVERSITY RADIOCARBON DATES. 2
RADIOCARBON. 14. 452. 1972
- 305 72 054 MAURETTE M
SOME ANNEALING CHARACTERISTICS OF HEAVY ION TRACKS IN SILICATE MINERALS
PP IV. 40-51 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN
INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969. VOL. 1.
ISABELLE, D. (ED.), UNIVERSITE DE CLERMONT-FERRAND. 1969. CONF-690522(VOL.1)
- 305 72 055 MEJDAHL V
PROCEEDINGS OF THE THIRD INTERNATIONAL CONFERENCE ON LUMINESCENCE DOSIMETRY, RISOE, OCT. 11-14, 1971
RISO-249(PT.3), DANISH ATOMIC ENERGY COMMISSION, RISOE, RESEARCH ESTABLISHMENT, DEC. 1971. 350P.
CONF-711026(PT.3). 22 PAPERS
- 305 72 056 MEJDAHL V
PROGRESS IN TL DATING AT RISOE
PP 930-47 OF RISO-249(PT.3). DEC. 1971
- 305 72 057 MITCHELL JG
POTASSIUM-ARGON DATING OF GAMMA IRRADIATED MINERALS
EARTH PLANET. SCI. LTRS. 14. 91. 1972
- 305 72 058 NISHIMURA S
STUDY OF AGE DETERMINATION METHOD ON SOME MINERALS AND GLASSES BY FISSION TRACK REGISTRATION
GANSEKI KOBUTSU KOSHO GAKKAISHI (J. JAP. ASSOC. MINERALOG., PETROLOG., ECON. GEOLOG.), 64. NO. 6.
173. 1970 IN JAPANESE
- 305 72 059 OMURA A KONISHI K
EVALUATION OF APPARENT IONIUM AGES OF SOME HERMATYPIC CORALS
CHISHIISUGAKU ZASSHI. 76. 389. 1970 IN JAPANESE
- 305 72 060 ONCESCU M SANDRU P DANIS A MINZATU S
INFLUENCE OF EXPERIMENTAL FACTORS ON AGE RESULTS OBTAINED BY THE FISSION TRACK DATING METHOD
REV. RUUM. PHYS., 11. 83. 1972

- 305 72 061 PANKINA RG MAKSIMOV SP SOBOLEV AB
ROCK SALT AGE DETERMINATION VIA SULFUR ISOTOPE COMPOSITION
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 306, 1971
- 305 72 062 PAPANASTASSIOU DA WASSERBURG GJ
1. RB-SR AGES OF IGNEOUS ROCKS FROM THE APOLLO 14 MISSION AND THE AGE OF THE FRA MAURO FORMATION. 2.
RB-SR AGE OF A LUNA 16 BASALT AND MODEL AGE OF LUNAR SOILS
EARTH PLANET. SCI. LTRS. 12, 36, 1971 AND 13, 368, 1972
- 305 72 063 PELLAS P
FOSSIL TRACK STUDIES IN TERRESTRIAL MATERIALS: GEOCHRONOLOGY, GEOPHYSICS, AND ARCHEOLOGY
PP VI.2-4 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION IN
INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969. VOL. 2.
ISABELLE, D. (ED.), UNIVERSITE DE CLERMONT-FERRAND, 1969. IN FRENCH, CONF-690522(VOL.2)
- 305 72 064 PINSON WH HURLEY PM
RB-SR AGES ON CENSITY AND SIZE FRACTIONS OF APOLLO 11 FINE SOIL SAMPLE 1084
EARTH PLANET. SCI. LTRS. 13, 130, 1971
- 305 72 065 PODOSEK FA HUNEKE JC WASSERBURG GJ
GAS RETENTION AND COSMIC RAY EXPOSURE AGES OF LUNAR ROCK 15555
SCIENCE, 175, 423, 1972. 12 REFERENCES
- 305 72 066 PRIEM HNA BOELRIJK NAIN HEBEDA EH VERDURMEN EAT VERSCHURE RH
1. ISOTOPIC DATING IN THE KAMATIVI TIN BELT, SOUTHERN RHODESIA. 2. ISOTOPIC AGES OF TRANS-AMAZONIAN
ACIDIC MAGMATISM AND NICKERIE METAMORPHIC EPISODE IN PRECAMBRIAN BASEMENT OF SURINAME (SOUTH
AMERICA)
GEOL. MIJNBOWW. 50, 619, 1971 AND GEOL. SOC. AMER., BULL., 82, 1667, 1971
- 305 72 067 RAMA MURTHY V EVENSEN NM JAHN BM COSCID MR DRAGON JC
PEPIN RO
RUBIDIUM-STRONTIUM AND POTASSIUM-ARGON AGE OF LUNAR SAMPLE 15555
SCIENCE, 175, 419, 1972. 7 REFERENCES
- 305 72 068 REYNOLDS PH
U-TH-PB LEAD ISOTOPE STUDY OF ROCKS AND ORES FROM BROKEN HILL, AUSTRALIA
EARTH PLANET. SCI. LTRS. 12, 215, 1971
- 305 72 069 RONA E
ABSOLUTE DATING OF OCEAN SEDIMENTS BY USE OF TH(230)/PA(231) RATIO AND GEOCHEMICAL STUDIES OF
LIMITING BOUNDARY CONDITIONS WITH SPECIAL ATTENTION TO EXOTIC ENVIRONMENTS
ORO-3622-11. FINAL REPORT. MIAMI UNIV., FLA., ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES,
FEB. 1972, 118P
- 305 72 070 SAYRE EV
ACTIVATION ANALYSIS APPLICATIONS IN ART AND ARCHAEOLOGY
ADVAN. ACTIV. ANAL., 2, 155-84, 1972
- 305 72 071 SCHMOLL HR SZABO BJ RUBIN M
RADIOMETRIC DATING OF MARINE SHELLS FROM BOOTLEGGER COVE CLAY, ANCHORAGE AREA, ALASKA
GEOL. SOC. AMER., BULL., 83, 1107, 1972
- 305 72 072 SHIMA M
1. FISSION TRACK AND ALPHA PARTICLE RECOIL TRACK DATING. 2. FISSION TRACK DATING OF ANCIENT GLASSES
DAI-4-KI KENKYU, 6, 134-40, 1967 IN JAPANESE AND SERAMIKKUSU, 5, NO. 12, 1041, 1970 IN JAPANESE
- 305 72 073 SISSONS JB BROOKS CL
DATING OF EARLY POSTGLACIAL LAND AND SEA-LEVEL CHANGES IN THE WESTERN FORTH VALLEY, CENTRAL SCOTLAND
NATURE. PHYS. SCI., 234, 124, 1971
- 305 72 074 GODOVICH EV
1. IZOTOPY SVINTSA V GEOKHIMII I KOSMOKHIMII (LEAD ISOTOPES IN GEOCHEMISTRY AND COSMOCHEMISTRY). 2.
ISOTOPIC COMPOSITION OF LEADS OF ANCIENT ROCKS
1. BOOK, ATOMIZDAT, MOSCOW, 1970, 352P. 2. PB-184 924-T, GEOLOGICAL SURVEY, DENVER, COLORADO, 8P
- 305 72 075 STORZER D WAGNER GA
1. CORRECTION METHOD FOR THERMALLY LOWERED FISSION TRACK AGES. 2. TRACK ANALYSES AND URANIUM
CONTENTS OF APOLLO 14 GLASSES
1. PP VI.20-5 OF PROCEEDINGS OF THE INTERNATIONAL TOPICAL CONFERENCE ON NUCLEAR TRACK REGISTRATION
IN INSULATING SOLIDS AND APPLICATIONS, HELD AT CLERMONT-FERRAND, FRANCE, MAY 6-9, 1969. VOL. 2.
ISABELLE, D. (ED.), UNIVERSITE DE CLERMONT-FERRAND, 1969. CONF-690522(VOL.2). 2. TRANS. AMER.
NUCL. SOC., 15, 119, 1972, FROM 18TH ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE 18, 1972.
CONF-720607
- 305 72 076 STORZER D HORN P KLEINMANN B
AGE AND ORIGIN OF KOEFELS STRUCTURE, AUSTRIA
EARTH PLANET. SCI. LTRS. 12, 238, 1971
- 305 72 077 STUCKLESS JS NAESER CW
RB-SR AND FISSION TRACK AGE DETERMINATIONS IN THE PRECAMBRIAN PLUTONIC BASEMENT AROUND THE
SUPERSTITION VOLCANIC FIELD, ARIZONA
U.S. GEOL. SUR., PROF. PAP., NO. 800-B, 191, 1972
- 305 72 078 SUESS HE
MEASUREMENTS OF BOMB-PRODUCED RADIOCARBON IN THE SURFACE AND SUBSURFACE WATER OF THE PACIFIC OCEAN
UCSD-34-P-163-X-3 AND -4. 3. INTERIM PROGRESS REPORT, JUNE 1968 - MARCH 1969. MARCH 1969, 9P. 4.
INTERIM PROGRESS REPORT, MARCH 1969 - MARCH 1970. MARCH 1970, 8P. SCRIPPS INSTITUTION OF
OCEANOGRAPHY, LA JOLLA, CALIF. NTIS
- 305 72 079 SUESS HE GOLDBERG E
1. CLIMATIC CHANGES AND ATMOSPHERIC RADIOCARBON LEVEL. 2. COMMENTS ON PAPER BY H. CRAIG, 'ABYSSAL
CARBON AND RADIOCARBON IN PACIFIC'
PALEOGEOL. PALEOCLIMATOL. PALEOECOL., 10, NO. 2/3, XXX, 1971 AND J. GEOPHYS. RES., 76, 5131, 1971
- 305 72 080 SUZUKI M
1. FISSION TRACK AGES AND URANIUM CONTENTS OF OBSIDIANS. 2. FISSION TRACK DATING AND URANIUM
CONTENTS OF OBSIDIAN. II.
JINRUIGAKU ZASSHI (J. ANTHROPOLOG. SOC. JAPAN), 78, NO. 1, 50-8, 1970 AND DAI-4-KI KENKYU, 9, NO. 1,
1, 1970 IN JAPANESE

- 305 72 081 SZMUK P WATANABE S
DATING OF BRAZILIAN INDIAN POTTERY BY THERMOLUMINESCENT DOSIMETRY
IEA-231. INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL, FEB. 1971. 7P. NTIS
- 305 72 082 TELEGADAS K
SEASONAL ATMOSPHERIC DISTRIBUTION AND INVENTORIES OF EXCESS C(14) FROM MARCH 1955 - JULY 1969
PP 1.3-87 OF HASL-243. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, LAS VEGAS, NEV., AIR
RESOURCES LAB., IN FALLOUT PROGRAM QUARTERLY SUMMARY REPORT, MARCH - JUNE 1971
- 305 72 083 TERA F WASSERBURG GJ
U-TH-PB ANALYSES OF SOIL FROM THE SEA OF FERTILITY
EARTH PLANET. SCI. LTRS. 13. 457. 1972
- 305 72 084 TURNER G HUNEKE JC PODOSEK FA WASSERBURG GJ
1. AR(40)-AR(39) AGES FROM THE LUNAR MARIA. 2. AR(40)-AR(39) AGES AND COSMIC RAY EXPOSURE AGES OF
APOLLO 14 SAMPLES. 3. AR(40)-AR(39) AGE AND COSMIC RAY IRRADIATION HISTORY OF THE APOLLO 15
NORTHOSITE 15415
EARTH PLANET. SCI. LTRS. 11. 169. 1971. 12. 19. 1971. AND 14. 169. 1972
- 305 72 085 UZGIRIS EE FLEISCHER RL
CHARGED PARTICLE TRACK REGISTRATION IN AMBER
NATURE. 234. 28. 1971
- 305 72 086 VINOGRADOV AP DEVIRTS AL DOBKINA EI
CONCENTRATION OF C(14) IN THE TROPOSPHERE DURING 1953 - 1971
GEOKHIMIYA, P131, 1972 IN RUSSIAN
- 305 72 087 WAGNER GA REINER GM
1. FISSION TRACK DATING OF APATITES FROM THE CENTRAL ALPS. 2. FISSION TRACK TECTONICS: TECTONIC
INTERPRETATION OF FISSION TRACK APATITE AGES. 3. GEOLOGICAL INTERPRETATION OF FISSION TRACK AGES
1. ANN. SOC. GEOL. BELG., 94. NO. 2. 136. 1971. FROM EUROPEAN CONFERENCE OF GEOCHRONOLOGY, BRUSSELS,
BELGIUM, SEPT. 6. 1971. CONF-710953-5. 2. EARTH PLANET. SCI. LTRS. 14. 263. 1972. 3. TRANS. AMER.
NUCL. SOC., 15. 117. 1972. FROM 18TH ANNUAL CONFERENCE, LAS VEGAS, NEV., JUNE 18. 1972.
CONF-720607
- 305 72 088 WASSERBURG GJ PAPANASTASSIOU DA
AGE OF AN APOLLO 15 MARE BASALT: LUNAR CRUST AND MANTLE EVOLUTION
EARTH PLANET. SCI. LTRS. 13. 97. 1971
- 305 72 089 WATYNS ON GINN RM RAKSI AK
PALEOMAGNETISM, GEOCHEMISTRY, AND POTASSIUM-ARGON AGES OF RIO GRANDE DE SANTIAGO VOLCANICS, CENTRAL
MEXICO
GEOL. SOC. AMER., BULL., 82. 1955. 1971
- 305 72 090 WINTER J
RADIOCARBON DATING BY THERMOLUMINESCENT DOSIMETRY
ARCHAEOLOGY. 14. 281. 1972
- 305 72 091 YANG AIC
VARIATIONS OF NATURAL RADIOCARBON DURING THE LAST 11 MILLENNIA AND GEOPHYSICAL MECHANISMS FOR
PRODUCING THEM
THESIS. UNIV. OF WASHINGTON, SEATTLE, 1971. 118P. UNIV. MICROFILMS ORDER NO. 72-15,164
- 305 72 092 YORK D YANASE Y BERGER GW
DETERMINATION OF GEOLOGICAL TIME WITH A NUCLEAR REACTOR AND A MASS SPECTROMETER
PP 419-22 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. FROM CONFERENCE, KJELLER, NORWAY, SEPT. 7. 1970. CONF-700968
- 305 72 093 ZIMMERMAN DW
URANIUM DISTRIBUTIONS IN ARCHEOLOGIC CERAMICS: DATING OF RADIOACTIVE INCLUSIONS
SCIENCE. 174. 818. 1971
- 310 72 001 ALFORD JR
UNUSUAL BEHAVIOUR OF 2-METHYLADAMANTANE DURING BROMINATION
J. CHEM. SOC. C, P880. 1971
- 310 72 002 BAIRD MS
THE ADDITION OF BROMINE TO CYCLODODCA-1,2-DIENE
TETRAHEDRON. 27. 231. 1971
- 310 72 003 BANKS RE
N-FLUOROCOMPOUNDS. 4. PHOTOCHEMICAL AND FLUORIDE INITIATED REACTIONS BETWEEN
PERFLUORO-N-FLUOROPIPERIDINE AND PERFLUOROPROPENS
J. CHEM. SOC., PERKIN TRANS., I. P1098. 1972
- 310 72 004 BARTLETT N WECHSBER M JONES GR
CRYSTAL STRUCTURE OF XENON(III) FLUORIDE FLUOROSULFATE, FXE0502F
INORG. CHEM., 11. 1124. 1972
- 310 72 005 BASS RJ
CHLORINATION OF 5-METHOXYINDOLE DERIVATIVES
TETRAHEDRON. 27. 3263. 1971
- 310 72 006 BIRUM GH WILSON JO
TOTAL DEALKYLATION OF ESTERS OF TRIVALENT PHOSPHORUS AND PROMOTION OF ANHYDRIDE FORMATION BY N,N,N',
N'-TETRAMETHYLCHLOROFORMADIUM CHLORIDE
J. ORG. CHEM., 37. 2730. 1972
- 310 72 007 BITTEL R VAUBERT B
ANALYSIS OF THE PROBLEMS OF PROTECTION POSED BY FLUORINE AND FLUORINATED COMPOUNDS
LA-TR-72-17. TRANSLATED FOR LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, FROM REPORT CEA-BIB-200. 54P
- 310 72 008 BOUGON R
SOME ASPECTS OF FLUORINE CHEMISTRY
BULL. INFORM. SCI. TECH. (PARIS), NO. 161. 9-16. 1971 IN FRENCH
- 310 72 009 BRAMWELL AP
NUCLEAR CHLORINATION OF ALKYLPIRAZINES
J. CHEM. SOC., PERKIN TRANS., I. P2004. 1972

- 310 72 010 BRINK JM STEVENSON FD
VAPOR PRESSURE OF TANTALUM PENTACHLORIDE
J. CHEM. ENG. DATA, 17, NO. 2, 143, 1972
- 310 72 011 BRITTAIN AH SMITH JE LEE PL COMN K SCHWENDE RM
MICROWAVE SPECTRUM, STRUCTURE, DIPOLE MOMENT, AND QUADRUPOLE COUPLING CONSTANTS OF
AN INODIFLUOROPHOSPHINE
JACS, 93, 6772, 1971
- 310 72 012 BUSH MA
BORON HALIDES AS REAGENTS IN INORGANIC SYNTHESIS. 4. PREPARATION OF
TRIS-CHLOROHXABROMO-TRIANGULO-TRIRHENIUM(III) (3 RE-RE) AND RE319: HALOGEN EXCHANGE REACTIONS
WITH RE3CL9 AND THE CRYSTAL STRUCTURE OF A SUBLIMATION PRODUCT OF
TRIS-CHLOROHXABROMO-TRIANGULO-TRIRHENIUM(III) (3 RE-RE)
J. CHEM. SOC., DALTON TRANS., P500, 1972
- 310 72 013 CAILLERET J ABBE JC PAULUS JM
FORMATION OF IODIDES IN SOLID BUTANE IRRADIATED BY I(+) IONS
RADIOCHEM. RADIOANAL. LETRS, 9, 113, 1972 IN FRENCH
- 310 72 014 CHAMBERS RD
POLYFLUOROHETEROCYCLIC COMPOUNDS. 21. THERMAL REARRANGEMENT OF PERFLUOROPYRIDAZINE AND
PERFLUOROALKYLPYRIDAZINES TO PYRIMIDINES
J. CHEM. SOC. C, P3384, 1971
- 310 72 015 CLARE P MILLINGT D SOWERBY DB
SUBSTITUTION OF DIMETHYLAMINO-GROUPS BY ANTIMONY TRIFLUORIDE
J. CHEM. SOC., CHEM. COMMUN., P324, 1972
- 310 72 016 COE PL
POLYCYCLIC FLUOROAROMATIC COMPOUNDS. 5. SOME REACTIONS OF 1,2,3,4-TETRAFLUORONAPHTHALENE
J. CHEM. SOC. C, P604, 1971
- 310 72 017 COLBURN CB HILL WE SHARP DW
TRANSITION METAL THIOPHOSPHORYL DIFLUORIDES
INORG. NUCL. CHEM. LETRS, 8, 625, 1972
- 310 72 018 COLLINS I
POLYHALOGENAROMATIC COMPOUNDS. 16. PREPARATION AND REACTIONS OF POLYHALOGENOPHENYL AND
POLYHALOGENOPYRIDYL HYDRAZINES
J. CHEM. SOC. C, P167, 1971
- 310 72 019 DEKOCK CW WESLEY RD RADTKE DD
INFRARED SPECTRA AND GEOMETRIES OF RARE EARTH DIHALIDES: SMF2, SMCL2, EUF2, EUCL2, YBF2, AND YBCL2
RLO-2227-TI-2, OREGON STATE UNIV., CORVALLIS, DEPT. OF CHEMISTRY AND WISCONSIN STATE UNIV., STEVENS
POINT, DEPT. OF CHEMISTRY, 1971, 15P, NTIS
- 310 72 020 DRAKESMITH FG
ELECTROCHEMICAL REDUCTION OF FLUORINATED AROMATIC CARBOXYLIC ACIDS
J. CHEM. SOC., PERKIN TRANS., I, P184, 1972
- 310 72 021 DRAYTON CJ
POLYFLUOROCARBANION CHEMISTRY. 1. REACTION OF HEXAFLUOROPROPENE WITH TETRAFLUOROPYRIMICINE
J. CHEM. SOC. C, P2750, 1971
- 310 72 022 DREESKAM H HUTZINGER O ZANDER M
- INFLUENCE OF CHLORO SUBSTITUTION ON ELECTRONIC SPECTRA OF BIPHENYL
Z. NATURFORSCH., 27A, 756, 1972 IN GERMAN
- 310 72 023 DRUCE PM LAPPERT MF
BORON HALIDES AS REAGENTS IN INORGANIC SYNTHESIS. 2. A FURTHER GENERAL METHOD FOR PREPARATION OF
ANHYDROUS BROMIDES AND IODIDES, HALOGEN EXCHANGE REACTIONS
J. CHEM. SOC. A, NO. 22, XXX, 1971
- 310 72 024 FEAST WJ
1. FLUORINATION OF DICHLOROMALEIC ANHYDRIDE WITH SULFUR TETRAFLUORIDE. 2. FLUORINATION OF
PERCHLORO-2,5-DIHYDROFURAN
J. CHEM. SOC. C, P2429, 1970 AND P769, 1971
- 310 72 025 FONTENEAU G LUCAS J
OXIDE FLUORIDE SYSTEMS OF THORIUM AND URANIUM. 4.
J. INORG. NUCL. CHEM., 33, 4061, 1971 IN FRENCH
- 310 72 026 FRASER GW
DIALKYLAMINOTELLURIUM(VI) FLUORIDE
J. CHEM. SOC. A, P1125, 1971
- 310 72 027 GOTTSCHALK G NEUMANN GM
SIMULATION OF HETEROGENEOUS GAS EQUILIBRIA. 1. METAL-HALOGEN SYSTEMS WITH EXAMPLES FOR THE
TUNGSTEN-HALOGEN SYSTEMS
Z. METALLK., 62, 910, 1971 IN GERMAN
- 310 72 028 HARIHARAN AV EICK HA
VAPORIZATION THERMODYNAMICS OF EUROPIUM(III) CHLORIDE AND EUROPIUM(III) OXIDECHLORIDE
PP 584-96 OF CONF-711001(VOL.2), MICHIGAN STATE UNIV., EAST LANSING, DEPT. OF CHEMISTRY, 1971, FROM
9TH RARE EARTH RESEARCH CONFERENCE, BLACKSBURG, VA., OCT. 10, 1971
- 310 72 029 HASTIE JW HAUGE RH MARGRAVE JL
INFRARED SPECTRA AND GEOMETRIES FOR DICHLORIDES OF CA, SC, TI, V, CR, MN, FE, AND NI
HIGH TEMP. SCI., 3, 257, 1971, COM-71-5050, 1971
- 310 72 030 HASZELDINE RN RIGBY RD TIPPING AE
PERFLUOROALKYL DERIVATIVES OF SULPHUR. 10. REACTION OF POLYFLUOROMONODIOALKANES WITH
DIMETHYLSULPHIDE TO GIVE METHYLPOLYFLUOROALKYL SULPHIDES. 12. REACTION OF
HEPTAFLUORO-1-iodopropane WITH ETHYLMETHYLSULPHIDE, METHYL. 13. REACTION OF
POLYFLUOROMONODIOALKANES WITH DIETHYLDISULPHIDE AND OF PENTAFLUOROiodobenzene WITH
BIS(TRIFLUOROMETHYL) DISULPHIDE
J. CHEM. SOC., PERKIN TRANS. I, P155, P1506, AND P2180, 1972

- 310 72 031 HUSTON JL
XENON DIOXIDE TETRAFLUORIDE
JACS. 93. 5255. 1971
- 310 72 032 KAISER EW FALCONER WE KLEMPERE W
ELECTRIC DEFLECTION OF MOLECULAR BEAMS OF LANTHANIDE DI AND TRIFLUORIDES, SCF3 AND YF3
J. CHEM. PHYS., 56. 5392. 1972
- 310 72 033 KLIMOV VO LOBIKOV EA
ISOTOPE EFFECT IN THE INFRARED SPECTRUM OF SF6
OPT. SPECTROSC. USSR (ENGL. TRANS.), 30. 25. 1971. TRANSLATED FROM OPT. SPEKTROSK., 30. 48. 1971
- 310 72 C34 KRISHNAM SS LAPPERT MF
DONOR-ACCEPTOR COMPLEXES OF MIXED BORON TRIHALIDES
INORG. NUCL. CHEM. LTRS. 7. 919. 1971
- 310 72 035 LANTHIER GF KANE J MASSEY AG
ISOLATION AND SOME PROPERTIES OF B8CL8
J. INORG. NUCL. CHEM., 33. 1569. 1971
- 310 72 036 LEVY J KENNEDY R
BISTRIFLUOROMETHYL PEROXIDE. 1. THERMODYNAMICS OF THE EQUILIBRIUM WITH CARBONYLFLUORIDE AND
TRIFLUOROMETHYLHYPOFLUORITE
AD-746 538. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 310 72 037 LIU B SCHAEFER HF
KRYPTON MONOFLUORIDE AND ITS POSITIVE ION
J. CHEM. PHYS., 55. 2369. 1971
- 310 72 038 LIU CS MARGRAVE JL THOMPSON JC
REACTIONS OF SILICON DIFLUORIDE WITH UNSATURATED ORGANIC COMPOUNDS. 1. ACETYLENE. 2. ALKYL
SUBSTITUTED ALKYNES
CAN. J. CHEM., 50. 459 AND 465. 1972
- 310 72 039 MARGRAVE JL WILSON PW
RAMAN SPECTRA OF POLYMERIC DIFLUORIDES OF GROUP-IV ELEMENTS AND STRUCTURE OF POLYDIFLUOROSILYLENE
EUR. POLYM. J., 7. 989. 1971
- 310 72 040 MATSUMOTO K
DIRECT ANALYSIS OF METAL HALIDES BY ELECTRON IMPACT MASS SPECTROMETRY
ANAL. CHEM., 43. 1691. 1971
- 310 72 041 MOHAN N MULLER A
DETERMINATION OF EXACT FORCE FIELD OF SiCL4 FROM CL(35)-CL(37) ISOTOPE SHIFT AND ANALYSIS OF
VIBRATIONAL SPECTRA OF SiCL(35)3CL(37), SiCL(35)2CL(37)2, SiCL(35)CL(37)3, Si(28)CL4, Si(29)CL4,
AND Si(30)CL4
J. MOL. SPECTROSC., 42. 203. 1972
- 310 72 042 MOON MW
1. CHLORINATION OF ALDEHYDE AND KETONE PHENYLHYDRAZONES. 2. CHLORINATION OF ALKYL GLYOXYLATE
PHENYLHYDRAZONES AND TRIKETONE PHENYLHYDRAZONES
J. ORG. CHEM., 37. 383 AND 386. 1972
- 310 72 043 MORIZOT P
DETERMINATION OF EQUATIONS OF STATE OF GASEOUS UF6, MOF6, WF6, AND CLF3 WITH THE DIELECTRIC METHOD
CEA-N-1487. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES. NOV.
1971. 23P IN FRENCH. NTIS
- 310 72 044 NAGARAJAN G BRINKLEY DC
STATISTICAL THERMODYNAMICS: ENTHALPY, FREE ENERGY, ENTROPY, AND HEAT CAPACITY OF SOME HEXAFLUORIDES
OF OCTAHEDRAL SYMMETRY
Z. NATURFORSCH., 26A. 1658. 1971
- 310 72 045 NO AUTHOR
PROCEDURES FOR HANDLING AND ANALYSIS OF URANIUM HEXAFLUORIDE. VOLUME 2. ANALYSIS
ORO-671-2. OAK RIDGE OPERATIONS OFFICE, AEC, TENN., APRIL 1972. 196P. NTIS
- 310 72 046 NO AUTHOR
ANALYTICAL STANDARDS FOR ACCOUNTABILITY OF URANIUM TETRAFLUORIDE
BULLETIN, AMERICAN NATIONAL STANDARDS INSTITUTE, NEW YORK. 1970. 63P
- 310 72 047 OGRIN T
DETERMINATION OF CRITICAL CONSTANTS AND ESTIMATION OF SOME PHYSICAL PROPERTIES OF XENON FLUORIDES AT
HIGHER TEMPERATURES
IJS-R-604. INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA. SEPT. 1971. 9P. NTIS
- 310 72 048 OVCHINNI KV NIKOLAEV EN SFMENOV GA
VOLATILITY OF RE3CL9 AND RE3BR9
ZH. OBSHCH. KHIM., 42. 12. 1972
- 310 72 049 PARIISKAYA AV
LOWER COMBUSTION LIMIT IN THE REACTION OF FLUORINE WITH HYDROGEN
UCRL-TRANS-10555. TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM ARM.
KHIM. ZH., 21. 630. 1968. 5P. NTIS
- 310 72 050 PATIL KC SECCO EA
METAL HALIDE AMMINES. 2. THERMAL ANALYSES, CALORIMETRY, AND INFRARED SPECTRA OF FLUORIDE AMMINES AND
HYDRATES OF DIVALENT METALS
CAN. J. CHEM., 50. 567. 1972
- 310 72 051 PRUSAKOV VN SOKOLOV VB
KRYPTON DIFLUORIDE
AT. ENERG. (USSR), 31. NO. 3. 259. 1971 IN RUSSIAN
- 310 72 052 RANKIN DWII
POSITIVE AND NEGATIVE ION MASS SPECTRA OF SOME PF2X COMPOUNDS
INORG. NUCL. CHEM. LTRS. 8. 1101. 1972

- 310 72 053 RATCLIFFE CT
PREPARATION AND PROPERTIES OF CHLOROPEROXYTRIFLUOROMETHANE
JACS, 93, 3886, 1971
- 310 72 054 SCHAEFER MA
NEW SYNTHESIS OF TUNGSTEN(IV) HALIDES AND THEIR ADDUCTS WITH NITROGEN AND SULFUR DONOR LIGANDS.
CHARACTERIZATION BY VIBRATIONAL SPECTROSCOPY AND STUDY OF MAGNETIC PROPERTIES
IS-T-487. THESIS, IOWA STATE UNIV., AMES, NOV. 1971. 106P. AMES LAB., USAEC, NTIS
- 310 72 055 SCHLOSSER M LADENBERGER V ZIMMERMANN M
1. DIE EINWIRKUNG VON METALL-ALKOHALATEN AUF CIS AND TRANS-STYRYLCHLORID. 2. REAKTIONEN ZWISCHEN
VINYLFLUORIDEN UND LITHIUMORGANYLEN
CHEM. BER., 104, 2873 AND 2885, 1971
- 310 72 056 SELIG H KARPAS Z
REACTIONS OF REF7 AND REOF5 WITH FLUORIDE ION DONORS
ISRAEL J. CHEM., 9, 53, 1971
- 310 72 057 SEPPELT K SUNDERMEYER W
1. NEW IMIDOSULFUR OXIDE DIFLUORIDES. 2. PENTAFLUOROORTHOSELENSAURE DISULFURYLFLUORID UND
PENTAFLUOROORTHOSELENSAURE TRIFLUORACETAT
ANGEW. CHEM., 82, 931, 1970 IN GERMAN AND CHEM. BER., 105, 3131, 1972
- 310 72 058 SHIRAFUJ T YAMAMOTO Y NOZAKI H
DEHALOGENATION OF ORGANIC HALIDES BY MEANS OF IRON(III) CHLORIDE IN DIMETHYL SULFOXIDE
BULL. CHEM. SOC. JAPAN, 44, 1994, 1971
- 310 72 059 SINGLETON DL
MASS SPECTROMETRIC STUDY OF TRANSITION METAL OXOHALIDES AND THIOHALIDES: OXOTETRAHALIDES OF
GROUPS-VI-VII-VIII DIOXODIHALIDES OF GROUP-VI THIOCHLORIDES OF TUNGSTEN
THESIS, NORTHWESTERN UNIV., EVANSTON, ILL. UNIV. MICROFILMS ORDER NO. 71-30,949. DISS. ABS., 32B, 6,
3242, 1971
- 310 72 060 SINGLETON DL STAFFORD FE
MASS SPECTROMETRIC STUDY OF TRANSITION METAL OXO AND THIOHALIDES
INORG. CHEM., 11, 1208, 1972. COO-1147-43, NORTHWESTERN UNIV., EVANSTON, ILL., 1971. 40P
- 310 72 061 SLIVNIK J ZEMVA B
INFLUENCE OF VANADIUM PENTAFLUORIDE, CHROMIUM PENTAFLUORIDE, AND MANGANESE TRIFLUORIDE ON THE
REACTION BETWEEN XENON AND FLUORINE
IJS-R-598. INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, JUNE 1971. 13P. NTIS
- 310 72 062 STOCKDALE JA NELSON DR DAVIS FJ CUMPTON RN
STUDIES OF ELECTRON IMPACT EXCITATION, NEGATIVE ION FORMATION, AND NEGATIVE ION-MOLECULE REACTIONS
IN BORON-TRIFLUORIDE AND BORON TRICHLORIDE
J. CHEM. PHYS., 56, 3336, 1972
- 310 72 063 SWINDELL RF SHREEVE JM BABB DP QUELLETTE TJ
1. SOME EXTENSIVELY REARRANGED DERIVATIVES OF SULFUR TETRAFLUORIDE, TRIFLUOROMETHYL SULFUR
TRIFLUORIDE, AND BIS(TRIFLUOROMETHYL)SULFUR DIFLUORIDE FROM HEXAFLUORISOPROPYLDENIMINOLITHIUM
REACTIONS. 2. HEXAFLUOROPROPYLDENIMINOLITHIUM REACTIONS WITH HALIDES
JACS, 94, 5713, 1972 AND INORG. CHEM., 11, 242, 1972. 20 REFERENCES
- 310 72 064 THOMPSON JW
ADDITION OF CARBONYL FLUORIDE TO ORGANIC AND INORGANIC NITRILES
THESIS, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIV., BLACKSBURG, UNIV. MICROFILMS ORDER NO.
72-12,513. DISS. ABS., 32B, 10, 5681, 1972
- 310 72 065 VALLADON M BOURGEOIS M
FLUORIDE AND OXYFLUORIDE RU COMPOUNDS
CEA-BIB-201. COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES
NUCLEAIRES, MARCH 1972. 32P IN FRENCH. NTIS
- 310 72 066 VANKA M
PLUTONIUM HEXAFLUORIDE: PREPARATION AND PROPERTIES
UJV-2291-CH. CESKOSLOVENSKA AKADEMIE VED, REZ, USTAV JADERNEHO VYZKUMU, 1970. 67P IN CZECH. NTIS
- 310 72 067 VARMUZA K KRENWAYK P
MASS SPECTROMETRIC INVESTIGATIONS OF PHOSPHORUS TRIHALIDES AND MIXED PHOSPHORUS TRIHALIDES
MONATSH. CHEM., 102, 1037, 1971 IN GERMAN
- 310 72 068 VASILE NJ
A MOLECULAR BEAM-MASS SPECTROMETRIC STUDY OF BINARY PENTAFLUORIDES
J. CHEM. SOC. D, P1355, 1971
- 310 72 069 VOLAVSEK B DOBČNIK D SLIVNIK J
CONTRIBUTION TO USE OF HYDRAZINIUM(+2) FLUORIDE AS FLUORINATING AGENT
J. INORG. NUCL. CHEM., 34, 2483, 1972
- 310 72 070 WOODS C LONG GG
VIBRATIONAL ASSIGNMENTS AND FORCE FIELD CALCULATIONS FOR TRIMETHYLARSENIC DICHLORIDE, DIBROMIDE, AND
THEIR DEUTERATED ANALOGS
J. MOL. SPECTROSC., 40, NO. 3, XXX, 1971
- 315 72 001 ABRAMSON FP
TOPICS IN CHEMICAL INSTRUMENTATION LXIII. ANALYTICAL APPLICATIONS OF HIGH RESOLUTION MASS
SPECTROMETRY. ED. BY GALEN W. EWING
J. CHEM. ED., 49, NO. 5, A283-A295, 1972
- 315 72 002 ALEXANDRU G
HIGH RESOLUTION MASS SPECTROMETER
STUD. CERC. FIZ., 24, 765, 1972 IN ROMANIAN
- 315 72 003 BINKS R
TABLES FOR USE IN HIGH RESOLUTION MASS SPECTROMETRY
BOOK, HEYDEN AND SON LTD., LONDON, JULY 1972. 212P
- 315 72 004 BROWN P KAMANO Y PETTIT GR
HIGH RESOLUTION MASS SPECTROMETRY. BUFADIENOLIDES. 1 AND 2
ORG. MASS SPEC., 6, 47 AND 613, 1972

- 315 72 005 BROWN WF FISHER IP
PRECISION OF FRAGMENTATION PATTERNS IN HIGH RESOLUTION MASS SPECTROMETRY
TALANTA, 19, 798, 1972
- 315 72 006 CHRISTIE WH SMITH DH MCKOWN HS
A NEW HIGH RESOLUTION MASS SPECTROMETER WITH PARTIAL SECOND-ORDER DOUBLE FOCUSING
J. MASS SPECTRY, ION PHYS., 8, 311, 1972
- 315 72 007 KUNDERD A SPENCER RB BUDDLE WL
SUBMOLECULAR GROUP ANALYSES OF HIGH RESOLUTION MASS SPECTRA OF PEPTIDES AND OTHER SEQUENCE MOLECULES
ANAL. CHEM., 43, 1086, 1971
- 315 72 008 BABALAIS JW WERNE LO BERGMARK T
HIGH RESOLUTION ELECTRON SPECTRA OF THIOPHENE, 2-BROMOTHIOPHENE, AND 3-BROMOTHIOPHENE
J. MASS SPECTRY, ION PHYS., 9, 185, 1972
- 315 72 009 SHULTZ JL
HIGH RESOLUTION MASS SPECTROMETRIC INVESTIGATION OF HETEROATOM SPECIES IN COAL-CARBONIZATION
PRODUCTS
FUEL, 51, NO. 3, 242, 1972
- 315 72 010 VATLINA LP TAKHISTO VV TEMNIKOV TI
PROPERTIES OF MASS SPECTRA OF HIGH RESOLUTION OF DIMETHYLAMINOMETHYL AND DIMETHYLAMINOETHYL ESTERS
OF BENZOIC ACIDS
ZH. VSES. KHIM. OBSHCHEST. IM. D. I. MENDELEEVA, 17, NO. 2, 233, 1972 IN RUSSIAN
- 315 72 011 YAMAKAWA K HISATOME M
HIGH RESOLUTION MASS SPECTRA OF ANTI AND SYN ISOMERS OF ACYLFERROCENE OXIMES
ORG. MASS SPECTRY, 6, 167, 1972
- 320 72 001 AUBRY B BERNARDET H CHOUMOFF S MATIVET J SAUNEUF R
DEVICE FOR CONTROLLING THE PRESSURE IN A MOLECULAR VACUUM OF ULTRAHIGH VACUUM
FRENCH PATENT 2,064,631, JUNE 28, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, FILED OCT. 6, 1969, IN
FRENCH
- 320 72 002 BACHLER W WIKBERG T
DUAL SEAL BAKEABLE SECTOR VALVES OF THE CERN INTERSECTING STORAGE RING
VACUUM, 21, 457, 1971
- 320 72 003 BANNENBERG JC
A FORCE FREE BELLOWS SYSTEM WITH SIX DEGREES OF FREEDOM
J. PHYS. E, 4, 538, 1971
- 320 72 004 BRUNGER W
ELECTRON-INTERFEROMETER WITH A FIELD EMISSION CATHODE FOR MEASURING CONTACT POTENTIAL DIFFERENCES AT
ULTRAHIGH VACUUM
Z. PHYS., 250, 263, 1972 IN GERMAN
- 320 72 005 BUCHNER KH DOBROZEMSKY R
MEASUREMENT OF OUTGASSING RATE OF AUSTENITIC CRNi STAINLESS STEEL SHEETS IN ULTRAHIGH VACUUM
KERNTECHNIK, 13, 272, 1971
- 320 72 006 CAIRNS JA BENNEWORTH B YEATES RC
PRECISION GONIMETER FOR USE IN CLEAN VACUUM CONDITIONS
NUCL. INSTRUM. METHODS, 96, 89, 1971
- 320 72 007 CAMPARGUE R
IMPROVEMENTS TO METHODS AND DEVICES FOR PRODUCING JETS BY FREE EXPANSION OF A GAS
BRITISH PATENT 1,227,048, MARCH 31, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, PRIORITY DATE, MAY
14, 1968, FRANCE
- 320 72 008 CARTER G ARMOUR DG DE CHERNATONY L
FACTORS LIMITING THE ATTAINMENT OF ULTRAHIGH VACUUM BELOW 10⁻¹⁰ (10⁻¹⁰) TORR
VACUUM, 22, 643, 1972
- 320 72 009 CATONI F CIPOLLONI G
VACUUM SYSTEM FOR THE STUDY OF ELECTRONIC EMISSION BY IONIC BOMBARDMENT
RT-EL-(71)4, COMMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROME, ITALY, SEPT. 1971, 29P IN ITALIAN.
NTIS
- 320 72 010 CHASE WH PRELL RA RUF FX
APPARATUS FOR ULTRAHIGH VACUUM IN SITU THIN FILM STUDIES
J. VAC. SCI. TECHNOL., 7, 607, 1970
- 320 72 011 CZANDERNA AW
VACUUM MICROBALANCE TECHNIQUES. VOLUME 8, PROCEEDINGS OF THE WAKEFIELD CONFERENCE, JUNE 12 - 13,
1969
BOOK, PLENUM PUBLISHING CORP., NEW YORK, 1971, 262P, CONF-690662, 18 PAPERS
- 320 72 012 DAWBARN R COBLE J
ON THE ABILITY OF FREON (TRADEMARK) C-318 TO TRAP HYDROGEN ON A 77 DEGREES K CRYOSURFACE
AD-730 271, ARNOLD ENGINEERING DEVELOPMENT CENTER, ARNOLD AIR FORCE STATION, TENN. 25P
- 320 72 013 DIGIALONARDO A DIXON RD ANDERSON KL
ROTARY, LINEAR MOTION VACUUM FEEDTHROUGH
J. VAC. SCI. TECHNOL., 9, 1442, 1972
- 320 72 014 DOBROZEMSKY R MORAW G
1. IMPROVED CRYOSORPTION PUMP WITH HIGH PUMPING SPEED, LOW FINAL PRESSURE, AND LOW LIQUID-GAS
CONSUMPTION. 2. PUMPING SPEED OF CRYOSORPTION PUMPS IN THE PRESSURE RANGE OF 10⁻¹⁰ (10⁻⁶) TO 10⁻¹⁰ (10⁻³)
TORR. 3. PUMPING SPEED OF AN IMPROVED CRYOSORPTION PUMP AT 77 DEGREES K FOR H₂, CH₄, H₂O, N₂, CO,
O₂, CO₂, AND NOBLE GASES
1. UCRL-TRANS-10628, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM
VAKUUM-TECH, 26P. 2. SGAE-PH-110/1971, 1971, 16P. 3. SGAE-2029, JULY 1972, 27P. OESTERREICHISCHE
STUDIENGESellschaft FÜR ATOMENERGIE G.m.B.H., SEIBERSDORF, PHYSIK-INSTITUT
- 320 72 015 DURAN JR FISHER RE
CATHODIC VACUUM ETCHING OF URANIUM ALLOYS
MICROSTRUCTURES, 2, NO. 6, 23, 1971

- 320 72 016 DVOICHENKO VD VZATSKAYA EI
ULTRAHIGH VACUUM VALVE WITH AN INDIUM SEAL
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 549, 1971. TRANSLATED FROM PRIB. TEKH. EKSP., 14, NO. 2, 190, 1971
- 320 72 017 EBERIUS H WENDT JF
DIRECT MEASUREMENT OF DENSITY GRADIENT IN A RAREFIED FLOW
AD-730 541, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 320 72 018 ERENTS K MCCracken GN
THERMAL RELEASE OF HYDROGEN ISOTOPES FROM CRYOGENIC SURFACES
VACUUM, 21, NO. 7, XXX, 1971
- 320 72 019 ERGAKOV VA KRYUCHKOV II TREBUKHOVSKII YV
1. ELECTROSTATIC CONDENSERS IN VACUUM (REVIEW). 2. ELECTRICAL INSULATION IN ELECTROSTATIC ANALYZERS
1. ITEF-803. GOSUDARSTVENNYI KOMITET PO ISPOL'ZOVANIYU ATOMNOI ENERGII SSSR, MOSCOW, INSTITUT
TEORETICHESKOI I EKSPERIMENTAL'NOI FIZIKI, 1970. 37P IN RUSSIAN, NTIS, 26 REFERENCES. 2. INSTRUM.
EXP. TECH. USSR (ENGL. TRANS.), 14, 1607, 1971. TRANSLATED FROM PRIB. TEKH. EKSP., NO. 6, 20, 1971
- 320 72 020 ESCHBACH HL
CALIBRATION METHODS OF VACUUM TECHNIQUE
EUR-4797, EUROPEAN ATOMIC ENERGY COMMUNITY, GEEL, BELGIUM, CENTRAL NUCLEAR MEASUREMENTS BUREAU,
1972. 34P IN GERMAN
- 320 72 021 EVTIKHIN VA ZVEZDIN YI KAPRIZOV VA PUGAEV GS
EQUIPMENT FOR TESTING THE CREEP AND LONG TERM STRENGTH OF METALS AT HIGH TEMPERATURES IN VACUUM OF
THE ORDER OF $10^{(10-9)}$ MM HG
IND. LAB. USSR (ENGL. TRANS.), 37, 295, 1971. TRANSLATED FROM ZAVOD. LAB., 37, 228, 1971
- 320 72 022 GODDINGS A JAQUES TAJ ALLEN FH MAUGER RA MCINN NW
APPLICATION OF VACUUM TECHNOLOGY TO GAS FILLED RADIATION DETECTORS
VACUUM, 21, 515, 1971
- 320 72 023 GRISHIN SF GRISHINA EY CHERNYSHENKO VY KOVALENKO VA
1. ULTRAHIGH VACUUM ($10^{(10-13)}$ MM HG) THROUGH CONDENSATION PUMPS. 2. HYDROGEN PUMPING WITH A
HELIUM-CONDENSATION PUMP AT ULTRAHIGH VACUUMS
SOV. PHYS. TECH. USSR (ENGL. TRANS.), 16, 1193 AND 1197, 1972. TRANSLATED FROM ZH. TEKH. FIZ.,
41, 1519 AND 1525, 1971
- 320 72 024 HELLWIG W SPENGLER G
COATING OF TOOL STEEL ANTIFRICTION BEARINGS WITH MOS₂ USING THE POLISHING PROCEDURE AND SOME TESTS
IN ULTRAHIGH VACUUM AT APPROXIMATELY 10 NTORR
N72-24524, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 320 72 025 HOLLAND L
PERFLUOROPOLYETHER - A VACUUM PUMP FLUID RESISTANT TO ELECTRON INDUCED POLYMERIZATION
NATURE, 238, 36, 1972
- 320 72 026 HUBBARD EL HANSON WB PATEL U
VACUUM SYSTEM FOR THE NAL BOOSTER SYNCHROTRON
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-18, NO. 3, 654, 1971. FROM NATIONAL
PARTICLE ACCELERATOR CONFERENCE, CHICAGO, ILL., MARCH 1, 1971. CONF-710308
- 320 72 027 HUGENBERGER CE PETRICH DE
- PNEUMATIC LOGIC CONTROLS FOR AUTOMATIC VACUUM SYSTEMS
UCRL-73921, CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., JULY 1972. 11P. CONF-721003-2.
NTIS. FROM 19TH NATIONAL VACUUM SYMPOSIUM, CHICAGO, ILL., OCT. 2, 1972
- 320 72 028 HUSSAIN E ALAM N
AUTOMATIC LIQUID AIR REPLENISHER
NUCL. SCI. APPL., SER. B, 5, 31, 1969
- 320 72 029 KENDALL BR
ANALOGIES BETWEEN ELECTRICAL CIRCUITS AND MOLECULAR FLOW NETWORKS
J. VAC. SCI. TECHNOL., 9, 247, 1972
- 320 72 030 KORTOV VS MINTS RI TEPOV VG
UBER EXOEMISSION BEI DER DEHNUNG VON ALUMINIUM IM ULTRAHOCHVAKUUM
PHYS. STATUS SOLIDI, 7, NO. 2, K89, 1971
- 320 72 031 KOTTKE M GREENLER RG
INFRARED WINDOW ASSEMBLY FOR ULTRAHIGH VACUUM SYSTEMS
REV. SCI. INSTRUM., 42, 1235, 1971
- 320 72 032 KURZ U LIPPERS H PAETRICK W
AUTOMATIC EQUIPMENT FOR FILLING OF THE COLD TRAP OF A MASS SEPARATOR WITH LIQUID NITROGEN
JUL-808-PC, KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, INSTITUT FUER PHYSIKALISCHE CHEMIE, NOV.
1971. 25P IN GERMAN
- 320 72 033 LEVY I CHAVET I
VACUUM ENCLOSURE OF THE ELECTROMAGNETIC ISOTOPE SEPARATOR MEIRA
VACUUM, 21, 325, 1971
- 320 72 034 MACJID AH MARTINEZ JM VAALA AR
DOUBLY INSULATED, GUARDED ULTRAHIGH RESISTANCE VACUUM FEEDTHROUGHS
REV. SCI. INSTRUM., 43, 1049, 1972
- 320 72 035 MAZE RC
ULTRAHIGH VACUUM STUDY OF WETTING IN LIQUID METAL-SOLID METAL SYSTEMS
IS-T-382, THESIS, IOWA STATE UNIV., AMES, OCT. 1971. 99P. AMES LAB., USAEC
- 320 72 036 MILLS JC
1. SIMPLE ULTRAHIGH VACUUM ROTATABLE SEAL. 2. ROBUST HIGH VACUUM MULTIPIN ELECTRICAL LEADTHROUGH
REV. SCI. INSTRUM., 43, 819 AND 820, 1972
- 320 72 037 NECHIPORENKO EP KIRILLOV VS
STUDY OF THE GAS EVOLUTION AND MECHANICAL PROPERTIES OF MOLYBDENUM WIRE
IZV. AKAD. NAUK SSSR, METAL., NO. 6, 128, 1970 IN RUSSIAN

- 320 72 038 NO AUTHOR
PROCEEDINGS OF THE 2ND INTERNATIONAL VACUUM METALLURGY CONFERENCE, HELD AT ANAHEIM, CALIFORNIA, JUNE 15 - 19, 1970
J. VAC. SCI. TECHNOL., 7, 51-168, 1970. CONF-700640. 26 PAPERS AND 12 ABSTRACTS
- 320 72 039 NO AUTHOR
PROCEEDINGS OF THE 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, OCTOBER 11 - 15, 1971
J. VAC. SCI. TECHNOL., 9, NO. 1, 1-559, 1972. CONF-711045. 117 PAPERS AND 58 ABSTRACTS. CONTENTS AVAILABLE FROM SDC
- 320 72 040 NO AUTHOR
SURFACE AND VACUUM PHYSICS INDEX. BIBLIOGRAPHY, AUTHOR INDEX, SUBJECT INDEX IN ALPHABETICAL ORDER, CUMULATIVE SUBJECT INDEX IN LOGICAL ORDER
VOL. 6, NO. 3, 1971, 68P, 276 REFERENCES. VOL. 6, NO. 4, 1971, 70P, 288 REFERENCES. VOL. 6, NO. 5, 1971, 51P, 148 REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN
- 320 72 041 NO AUTHOR
SURFACE AND VACUUM PHYSICS INDEX
VOL. 6, NO. 6, 1971, 59P, 199 REFERENCES. VOL. 6, NO. 7, 1971, 66P, 235 REFERENCES. VOL. 6, NO. 8, 1971, 57P, 207 REFERENCES. VOL. 6, NO. 9, 1971, 59P, 190 REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN
- 320 72 042 NO AUTHOR
SURFACE AND VACUUM PHYSICS INDEX
VOL. 6, NO. 10, 1971, 69P, 261 REFERENCES. VOL. 6, NO. 11, 1971, 61P, 190 REFERENCES. VOL. 6, NO. 12, 1971, 59P, 123 REFERENCES. VOL. 7, NO. 1, 1972, 68P, 267 REFERENCES. ZENTRALSTELLE FUER ATOMKERNENERGIE-DOKUMENTATION, FRANKFURT AM MAIN
- 320 72 043 NUVOLONE R BOIZIAU C
VERY SENSITIVE VIBRATING QUARTZ BALANCE WORKING IN ULTRAHIGH VACUUM AND AT VERY LOW TEMPERATURES. APPLICATION TO STUDY OF GAS-SOLID INTERACTIONS
REV. PHYS. APPL., 7, 55, 1972
- 320 72 044 POPE LE OLSON FA
DEGASSING OF COPPER WIRES IN AN ULTRAHIGH VACUUM. 1. DIFFUSION, 2. SURFACE PHENOMENA
MET. TRANS., 2, 2711, 1971 AND SURFACE SCI., 32, 16, 1972
- 320 72 045 RAPPARINI R
ULTRAHIGH VACUUM ASPECTS OF THE INVESTIGATION OF SURFACE PHENOMENA
VACUUM, 21, 302, 1971
- 320 72 046 REED RE
ELECTRON BEAM FLOAT ZONE MELTING AND VACUUM DEGASSING OF NIOBIUM SINGLE CRYSTALS
CONF-720605-1, OAK RIDGE NATIONAL LAB., TENN., MAY 1972, 24P, NTIS. FROM VACUUM METALLURGY CONFERENCE, PITTSBURGH, PA., JUNE 19, 1972
- 320 72 047 RETTINGH G HUBER WK
MEASUREMENT OF VAPOR PRESSURES AND BACKSTREAMING WITH A MASS SPECTROMETER CALIBRATED AGAINST A QUARTZ CRYSTAL THICKNESS MONITOR
J. VAC. SCI. TECHNOL., 9, 416, 1972
- 320 72 048 STOFFELS JJ
SORPTION AND ION-GETTER PUMPING FOR A SLIDING-SHAFT VACUUM LOCK
J. VAC. SCI. TECHNOL., 7, 606, 1970
- 320 72 049 VERHEYDEN L KLEIN K

NEW METALLIC SEALS FOR HIGH AND ULTRAHIGH VACUUM: DESCRIPTION AND PERFORMANCES
VACUUM, 21, 401, 1971
- 320 72 050 VERTESH-TUNYAK M
REFINEMENTS IN HIGH VACUUM OIL VAPOR PUMPS
KFKI-72-4, MAGYAR TUDOMANYOS AKADEMIA KOZPONTI FIZIKAI KUTATO INTEZETE, BUDAPEST, FEB. 1972, 74P IN RUSSIAN, NTIS
- 320 72 051 WIKBERG T
SEALING MECHANISMS IN UHV VALVES: A CONTRIBUTION TO THE DESIGN
VACUUM, 21, 337, 1971
- 320 72 052 WILSON NU
MOBILE MULTISTAGE 3000 CFM PUMPING SYSTEM
J. VAC. SCI. TECHNOL., 9, 60, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 320 72 053 WOLGAST RC
VACUUM CRYOPUMPING A HEAVY ION SOURCE IN A HIGH VOLTAGE TERMINAL
IEEE TRANS. NUCL. SCI., 18, 699, 1971
- 320 72 054 ZIMMER WH
ZERO DISPLACEMENT, LIQUID NITROGEN LEVEL MONITOR FOR SEMICONDUCTOR DETECTORS
ARH-2247, ATLANTIC RICHFIELD HANFORD CO., RICHLAND, WASH., JAN. 1972, 19P, NTIS
- 325 72 001 ACTON N
DIMERIZATION AND TRIMERIZATION OF NORDORNADICINE BY SOLUBLE RHOIDIUM CATALYSTS
JACS, 94, 5446, 1972
- 325 72 002 AHLGREN G
ALKYLS FROM DIALKYLMETALS. 1. PHOTOCHEMISTRY AND MASS SPECTRA OF SOME (2-CYANOETHYL) AND (2-METHOXYCARBONYL)ETHYL METALS
J. ORGANOMET. CHEM., 30, 303, 1971
- 325 72 003 ALBRAND JP
ETUDE PAR RMN DE DERIVES PHOSPHORES. ETUDE DE DIAZAPHOSPHOLANES-1,3,2
TETRAHEDRON, 28, 819, 1972
- 325 72 004 ALEXANDE AG STRAUSS OP POTTIER R
VACUUM ULTRAVIOLET SPECTRA OF METHYLATED SILANES
CHEM. PHYS. LETT., 12, 608, 1972
- 325 72 005 ALLCOCK HR WALSH EJ
PHOSPHONITRILIC COMPOUNDS. 12. ALKALINE HYDROLYSIS OF FLUORALKYLPHOSPHAZENES
JACS, 94, 119, 1972

- 325 72 006 ANDERSON JW DRAKE JE BARKER GK (4)
1. A HIGH YIELD SYNTHESIS OF METHYLTHIO AND METHYLSELENO DERIVATIVES OF SILICON, GERMANIUM, AND TIN.
2. SILICON-PHOSPHORUS HYDRIDES. IV. DISILYLPHOSPHINDALUMINATE ANION. 3. SYNTHESIS AND SPECTRA OF
SOME SILICON ARSINES. 4. CONVENIENT SYNTHESIS OF MONOBROMOGERMANE
INORG. NUCL. CHEM. LTRS. 7. 1007, 1971. J. CHEM. SOC. A. P2246, 1971. J. INORG. NUCL. CHEM., 34,
2455, 1972. AND CAN. J. CHEM., 50. 1607, 1972
- 325 72 007 ASHE AJ SHU P
1. THE 1-PHENYLBORABENZENE ANION. 2. PHOSPHABENZENE AND ARSABENZENE
JACS. 93. 1804 AND 3295, 1971
- 325 72 008 ASTLEY V SUTCLIFFE H
TRICHLORONITROSOMETHANE. 2. THERMAL DECOMPOSITION, AND AN IMPROVED SYNTHESIS. OF
TRICHLORONITROSOMETHANE
J. CHEM. SOC., PERKIN TRANS., 11, P197, 1972
- 325 72 009 AVE DM WEBB HM BOWERS MT
QUANTITATIVE RELATIVE GAS-PHASE BASICITIES OF ALKYLAMINES. CORRELATION WITH SOLUTION BASICITY
JACS. 94. 4726, 1972
- 325 72 010 AVANESSO M GAUMANN T
HARMONIQUES DES VIBRATIONS DE VALENCE C-H DANS LES ALCANES ET LES HALOGENURES DE T-BUTYLE
HELV. CHIM. ACTA. 54. 1310, 1971
- 325 72 011 AVDONINA EN
MECHANISM OF THE FORMATION OF C1-C(1) ALKANES IN THE ACTION OF RECOIL TRITIUM ATOMS ON CYCLOHEXANE
HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 4. 479, 1970. TRANSLATED FROM KHIM. VYS. ENERG., 4. 531, 1970
- 325 72 012 BACON RGR HAMILTON SD
METAL IONS AND COMPLEXES IN ORGANIC REACTIONS. 14. SYNTHESIS OF NN'-BISDIARYLPHENYLENEDIAMINES
J. CHEM. SOC., PERKIN TRANS., 1. P2391, 1972
- 325 72 013 BALDWIN JE PEAVY RE (1) WALKER JA (2) BRECKINR MF (3) JOHNSON DS (3)
1. DIARYLMETHYLENE-TETRACYANOETHYLENE CYCLOADDITIONS. 2. 2,3-SIGMATROPIC REARRANGEMENT OF
NUCLEOPHILIC CARBENES. A NEW APPROACH TO STEREOSPECIFIC SYNTHESIS OF CARBON-CARBON BONDS. 3. 2,1-
DIPHENYLKETENE: 1,1-DIPHENYLETHYLENE ADDUCT
J. ORG. CHEM., 36. 1441, 1971. J. CHEM. SOC., CHEM. COMMUN., F354, 1972. AND TETRAHEDRON LTRS.
P1635, 1972
- 325 72 014 BALDWIN JE ANDREWS GO (1) FLEMING RH (2) KAPLAN MS (3)
1. THERMAL GAS-PHASE PARTITIONING OF 1-METHYL AND 2-METHYLBICYCLO(2.1.0)PENT-2-ENE. 2. ANTARAFACIAL
ALLYLIC PARTICIPATION IN A THERMAL 1,3-SIGMATROPIC CARBON MIGRATION. 3. GENERATION AND
ISOMERIZATION OF CIS, TRANS, CIS-1,3,5-CYCLOOCTATRIENE AT 180 DEGREES. 4. THERMAL ISOMERIZATION OF
3,6-DIDEUTERIO AND 1,2,7,8,9,9-HEXADEUTERIO-CIS-BICYCLO(6.1.0)NONA-2,4,6-TRIENE
JACS. 94. 1775, 2140, 4696, AND 5845, 1972
- 325 72 015 BANFORD TA MACDIARMID AG
SYNTHESIS OF SILICON-NITROGEN, SILICON-PHOSPHORUS, AND SILICON-ARSENIC BONDS BY CLEAVAGE OF
SILICON-SILICON LINKAGE IN HEXACHLORODISILANE BY SELECTED AMINES, PHOSPHINES, AND ARSINES
INORG. NUCL. CHEM. LTRS. 8. 733, 1972
- 325 72 016 BANKS RE
NITROXIDE CHEMISTRY. 1. REACTIONS OF BISFLUOROMETHYL NITROXIDE WITH ACETYLENE, 3,3,3-
TRIFLUOROPROPYNE, PERFLUOROPROPYNE, PERFLUOROBUT-2-YNE, PERFLUORODIPHENYLACETYLENE, AND GLYOXAL.
2. REACTION OF BISTRIFLUOROMETHYL NITROXIDE WITH SOME ALKANES AND ALKENES: FREE RADICAL
DEHYDROGENATION OF ALKANES TO ALKENES
J. CHEM. SOC. C. P1951 AND P2777, 1971
- 325 72 017 BARKER GK DRAKE JE HEWINGS RT
VIBRATIONAL SPECTRA OF SILANE AND GERMANE DERIVATIVES. 5. INFRARED AND RAMAN SPECTRA OF
DIMALOGEND(METHYL)GERMANES. 6. INFRARED AND RAMAN SPECTRA OF MONOHALOGEND(METHYL)GERMANES
J. CHEM. SOC. A. NO. 21. XXX, 1971 AND SPECTROCHIM. ACTA. 28A. 1113, 1972
- 325 72 018 BARLOW MG
1. POLYFLUOROALKYL DERIVATIVES OF NITROGEN. XXIX. REACTION OF N-BROMOBISTRIFLUOROMETHYLAMINE WITH
CIS AND TRANS-BUT-2-ENE AND OF N-CHLOROBISTRIFLUOROMETHYLAMINE WITH TRANS-BUT-2-ENE UNDER IONIC
CONDITIONS. 2. VALENCE-BOND ISOMER CHEMISTRY. III. SOME ADDITION AND NUCLEOPHILIC SUBSTITUTION
REACTIONS OF HEXAFLUOROBICYCLO(2,2,0)HEXA-2,5-DIFINE
J. CHEM. SOC. C. P2744, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1. P2170, 1972
- 325 72 019 BARTLETT PD WHELAND RC
1. RELATION BETWEEN METHYLENOCYCLOPROPANE CYCLOADDITIONS AND BIRADICAL FLUOROALKENE CYCLOADDITIONS.
2. NONSTEREOSPECIFIC CYCLOADDITION OF TETRAFLUOROETHYLENE TO ETHYLENE-1,2-D2
JACS. 94. 2145 AND 2899, 1972
- 325 72 020 BATES AM
ORGANOGERMANIUM AND ORGANO-SILICON-NITROGEN COMPOUNDS
THESIS. HARVARD UNIV., CAMBRIDGE, MASS. UNIV. MICROFILMS ORDER NO. 71-13,783. DISS. ABS., 318. 11,
6473, 1971
- 325 72 021 BAUCOM KB BUTLER GB
SYNTHESIS AND SOME REACTIONS OF 3,3-DIMETHOXYCYCLOPROPENE
J. ORG. CHEM., 37. 1730, 1972
- 325 72 022 BEACHLEY OT
SYNTHESIS OF UNSYMMETRICALLY SUBSTITUTED BORAZINES. REACTIONS OF BORAZINE WITH SILVER(I) SALTS
JACS. 93. 5066, 1971
- 325 72 023 BEAK P WORLEY JW
THIOPHILIC ADDITIONS OF ORGANOMETALLICS TO THIOBENZOPHENONES AND OF PHENYL LITHIUM TO
PHENYLDITHIOBENZATE AND PHENYLTRITHIOCARBONATE
JACS. 94. 597, 1972
- 325 72 024 BEATTY JW POBO LG (1) WEXLER S
1. REACTIONS OF FAST T2 MOLECULES WITH 1-BUTENE. 2. HYDROGEN DISPLACEMENT IN N-BUTANE BY FAST T2 AND
T2(+) COLLISIONS
J. PHYS. CHEM., 75. 2407 AND 2417, 1971
- 325 72 025 BELYAEV NN STADNICH MO PETROV AA
SYNTHESIS OF SILICON CONTAINING ACETYLENIC YLIDE AND ITS 1,3-ENYNE SILICON CONTAINING HYDROCARBONS
ZH. OBSCHCH. KHIM., 42. 715, 1972 IN RUSSIAN

- 325 72 026 BENTRUDE WG
PENTACOVALENT PHOSPHORUS. 1. REACTIONS OF DIMETHYLKETENE DIMERS WITH TERTIARY PHOSPHITES. 2. REACTIONS OF DIMETHYLKETENE WITH CYCLIC TRIVALENT PHOSPHORUS ACID AMIDES. ISOLATION OF STABLE PENTACOVALENT INTERMEDIATE. 3. CYCLIC PENTACOVALENT PHOSPHORANES FROM REACTION OF TRIVALENT PHOSPHORUS COMPOUNDS WITH DIMETHYLKETENE
J. ORG. CHEM., 37, 631, 1972, AND JACS, 94, 923 AND 3058, 1972
- 325 72 027 BIDDLESTONE M SHAW RA
PHOSPHORUS-NITROGEN COMPOUNDS. 32. REACTION OF HEXACHLOROCYCLOTRIPHOSPHAZATRIENE WITH DIPHENYLMAGNESIUM IN 1,4-DIOXAN
J. CHEM. SOC. A, P2715, 1971
- 325 72 028 BINNS F SUSCHITZKY H
POLYHALOGENOAROMATIC COMPOUNDS. 18. GRIGNARD REACTIONS ON PENTACHLOROPYRIDINE 1-OXIDE. 20. SOME REACTIONS OF DECACHLOROBIPHENYL
J. CHEM. SOC. C, P1223 AND P1913, 1971
- 325 72 029 BIRKOFER L SCHMIDT G (1) FRANZ M (2) SCHMER P (3)
1. NEUE SYNTHESE VON HEPTAMETHYLDISILAZAN UND N-METHYL-N-TRIMETHYLSILYL-TRIFLUORACETANID. 2. TRIMETHYLSILYLNITRAT. 3. SILICIUMORGANISCHE VERBINDUNGEN. XXXIX. N-TRIMETHYLSILYL-CARBAMIDSAURE-TRIMETHYLSILYLESTER
CHEM. BER., 104, NO. 12, XXX, 1971, 105, 470, 1972, AND J. ORGANOMET. CHEM., 35, 15, 1972
- 325 72 030 BLOCH R
1-METHYLPENTALENE
JACS, 93, 3071, 1971
- 325 72 031 BOCHKAREV VN KRASNOVA TL CHERNYSH EA
SILICON CONTAINING HETEROCYCLIC COMPOUNDS. 11. MASS SPECTROMETRIC STUDY OF 10,10-DIMETHYL-10-SILA-9-OXAROPHENANTHRENE AND 10,10-DICHLORD-10-SILA-9-OXAROPHENANTHRENE
ZH. OBSHC. BIL., 42, 1339, 1972
- 325 72 032 BOGOLYUB GM PLOTNIKO VF GALPERIN YV
ORGANIC DERIVATIVES OF ELEMENTS OF GROUPS-V-VII. 19. ACI-NITRO TAUTOMERISM AND MASS SPECTRA OF NITRO COMPOUNDS
ZH. OBSHC. KHIM., 41, 1311, 1971
- 325 72 033 BONNET PH BOHLMANN F
UMSETZUNG VON ACETYLALDEHYDEN MIT CYANID IONEN
CHEM. BER., 104, 1616, 1971
- 325 72 034 BORLIN JJ GAINES OF
INTERNAL EXCHANGE IN NEW GROUP-III METALLOBORANE DERIVATIVES, (CH₃)₂SiB₃H₈ AND (CH₃)₂GaB₃H₈
JACS, 94, 1367, 1972
- 325 72 035 BOROWITZ IJ
1. ON THE MECHANISM AND CHIRALITY OF ENOL AND KETOPHOSPHONIUM SALT FORMATION FROM THE REACTIONS OF ALPHA-HALO KETONES OR ALPHA,ALPHA-DIHALO KETONES WITH TERTIARY PHOSPHINES. 2. REACTIONS OF FLUORENONES AND TETRAPHENYLCYCLOPENTADIENONES WITH TRICOVALENT PHOSPHINES AND PHOSPHITES
J. ORG. CHEM., 36, 88 AND 553, 1971
- 325 72 036 BOYCE R
1,1-DIPHENYLLALKENES. 11. ALKYLATION OF 1,1-DIPHENYLPROPENE CARBANIONS. THE PRINCIPLE OF LEAST MOTION
J. CHEM. SOC., PERKIN TRANS., 1, P1292, 1972
- 325 72 037 BROWN CL GROSS KP ONAK TP

1. NEGATIVE ION MASS SPECTRUM OF 2,3-DICARBAHEXABORANE(8). 2. NEGATIVE ION MASS SPECTRA OF NIDO CARBORANES
1. J. CHEM. SOC., CHEM. COMMUN., P68, 1972. AD-734 667. CALIFORNIA STATE COLL., LOS ANGELES, DEPT. OF CHEMISTRY, 10P. 2. AD-739 716. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 325 72 038 BROWN HC GUPTA SK
1,3,2-BENZODIOXABOROLE. A CONVENIENT MONOFUNCTIONAL HYDROBORATING AGENT. A SIMPLE NEW SYNTHESIS OF ALKANEBORONIC ESTERS AND ACIDS FROM OLEFINS VIA HYDROBORATION
JACS, 93, 1816, 1971
- 325 72 039 BROWN HC
HYDROBORATION. 31. THE CYCLIC HYDROBORATION OF DIENES WITH BORANE IN TETRAHYDROFURAN IN THE MULAR RATIO OF 1:1. 32. THE CYLIC HYDROBORATION OF DIENES WITH THEXYLBORANE
JACS, 94, 3561 AND 3567, 1972
- 325 72 040 BUDDE WL HAWTHORNE NF
NUCLEOPHILIC SUBSTITUTION AT TETRAHEDRAL BORON. TRIMETHYL AND TRIETHYLAMINE-BORANE SUBSTRATES
JACS, 93, 3147, 1971
- 325 72 041 BUERGER M CICHON J RUOFF A
VIBRATIONAL SPECTRA AND FORCE CONSTANTS OF SYMMETRICAL ROTATION. 8. RAMAN AND INFRARED SPECTRA OF H₃SIBR AND D₃SIBR
Z. NATURFORSCH., 26B, 1068, 1971 IN GERMAN
- 325 72 042 BIRBY JM YOUNG RN
REACTIONS OF 1,3-DIPHENYLLALK-1-ENES WITH BUTYLLITHIUM
J. CHEM. SOC. C, P3780, 1971
- 325 72 043 BURT DW SIMPSON P
MECHANISM OF REACTION BETWEEN TRIALKYL PHOSPHITES AND HALOGENOALKYLENES
J. CHEM. SOC. C, P2872, 1971
- 325 72 044 CANN PF
REARRANGEMENTS OF A CATION OF THE NEOPENTYLTYPE CONTAINING DIPHENYL-PHOSPHINYL SUBSTITUENT
J. CHEM. SOC., PERKIN TRANS., II, P304, 1972
- 325 72 045 CAREY FA TREMPER HS
CARBONIUM ION-SILANE HYDRIDE TRANSFER REACTIONS. 5. TERT-ALKYL CATIONS
J. ORG. CHEM., 36, 758, 1971
- 325 72 046 CAREY FA COURT AS
SILICON CONTAINING CARBANIONS. 1. SYNTHESIS OF VINYL THIOETHERS AND VINYLPHOSPHONATES VIA SILICON-MODIFIED ORGANOLITHIUM REAGENTS. 2. KETENE THIOACETAL SYNTHESIS VIA 2-LITHIO-2-TRIMETHYLSILYL-1,3-DITHIANE
J. ORG. CHEM., 37, 939 AND 1926, 1972

- 325 72 047 CASEY CP BOGGS RA
STEREOSPECIFIC ADDITION OF LITHIUM DIPROPENYL CUPRATE TO 2-CYCLOHEXENONE
TETRAHEDRON LETRS. P2455, 1971
- 325 72 048 CASTIGLIONI M VOLPE P RAMONDA G
HOT TRITIUM REACTIONS IN THE CH₄ + SiH₄ SYSTEM
RADIOCHIM. ACTA. 15. 164, 1971
- 325 72 049 CETINKAY B LAPPERT MF MCNEEKIN J
REACTIONS OF TRIALKYL TIN ACETYLIDES WITH SOME LOW OXIDATION STATE TRANSITION METAL COMPLEXES:
OXIDATIVE ADDITION AND CLEAVAGE, AND ALKYNYLATION
J. ORGANOMET. CHEM., 34. NO. 2, C37, 1972
- 325 72 050 CHAMBERS VMA
STEREOCHEMISTRY OF ORGANOMETALLIC COMPOUNDS. 10. FURTHER EVIDENCE AS TO THE MECHANISM OF BOROHYDRIDE
REDUCTION OF ORGANOMERCURIALS FROM A STUDY OF PHOTOCHEMICAL AND ORGANOTIN HYDRIDE REDUCTIONS
J. CHEM. SOC. C. P2075, 1971
- 325 72 051 CHEN SC
REARRANGEMENT OF AN ALPHA-SUBSTITUTED BICYCLIC NITROSO COMPOUND WITH LITHIUM ALUMINUM HYDRIDE
TETRAHEDRON LETRS. P7, 1972
- 325 72 052 CHEUNG CS BEAUDET RA
MICROWAVE SPECTRUM, STRUCTURE, AND DIPOLE MOMENT OF 2-CARBAHEXABORANE(9), C₆H₉
INORG. CHEM., 10. 1144, 1971
- 325 72 053 CHIA LS CULLEN WR
PREPARATION OF 1,2-DIMETHYLARSINOHEXAFLUOROCYCLOPENTENE, 1,2-DIMETHYLARSINOCTAFLUOROCYCLOHEXENE,
AND RELATED MIXED LIGANDS
CAN. J. CHEM., 50. 1421, 1972
- 325 72 054 CLAYTON AB
POLYFLUOROCYCLOALKENES. 9. REACTIONS OF 1H,2H-OCTAFLUOROCYCLOHEXENE, -HEXAFLUOROCYCLOPENTANE, AND -
TETRAFLUOROCYCLOBUTENE WITH METHANOL UNDER IONIC CONDITIONS. 10. REPLACEMENT REACTIONS OF
OCTAFLUOROCYCLOHEXA-1,3- AND 1,4-DIENE
J. CHEM. SOC. C. P1177 AND P1183, 1971
- 325 72 055 COCKS AT EGGER KW
REACTIONS OF GROUP-II METAL ALKYL IN GAS PHASE. 7. THERMAL UNIMOLECULAR DECOMPOSITION OF
TRI-ISOBUTYLBORON
J. CHEM. SOC. A. NO. 22. XXX, 1971
- 325 72 056 COFFEN DL
TETRATHIOETHYLENES
JACS. 93. 2258, 1971
- 325 72 057 COHEN SC MASSEY AG LANTHIER GF
FRAGMENTATION AND REARRANGEMENT PROCESSES IN MASS SPECTRA OF PERHALOGENOAROMATIC COMPOUNDS. 6.
PERFLUOROAROMATIC HETEROCYCLIC DERIVATIVES OF SULFUR, SELENIUM, AND TELLURIUM
ORG. MASS SPECTRY. 6. 373, 1972
- 325 72 058 COLLIER MR
MONOMERIC DI-T-BUTYLMETHYLENEAMINOBORANES
J. CHEM. SOC., DALTON TRANS., P370, 1972
- 325 72 059 COOPER P
- ORGANOPHOSPHORUS CHEMISTRY. 12. REACTIONS OF TETRAMETHYL-BIPHOSPHINE AND
TETRAKIS(TRIPHENYLPHOSPHONYL)METHANE WITH OLEFINS
J. CHEM. SOC. C. P3031, 1971
- 325 72 060 CORNFIELD JR
STEREOCHEMISTRY OF NUCLEOPHILIC SUBSTITUTION AT PHOSPHORUS IN P(III) AND P(V) PHOSPHETANS
J. CHEM. SOC., PERKIN TRANS., 1. P713, 1972
- 325 72 061 CRADOCK S
AMMONIUM SALTS OF SILANETHIOL AND SILANESELENOL
J. CHEM. SOC., DALTON TRANS., P359, 1972
- 325 72 062 CRAGG RH TODD JF TURNER RD HARGREAV KJ
1. MASS SPECTRA OF ORGANOBORON COMPOUNDS. II. MASS SPECTRA OF TRIPHENYLBOROXINE AND ITS PRECURSOR
PHENYLBORONIC ACID. 2. BORATROPYLIUM AND BORACYCLOPENTADIENYL IONS IN MASS SPECTRA OF
AMINOBORANES. 3. REARRANGEMENT IONS IN MASS SPECTRA OF SOME TRIMETHYL AND DIMETHYLSILANES. 4.
BORON-SULPHUR COMPOUNDS. III. FRAGMENTATION OF TRIMETHYL THIOBORATE UNDER ELECTRON IMPACT
ORG. MASS SPECTRY. 6. 1077, 1972, J. CHEM. SOC., CHEM. COMMUN., P206 AND P336, 1972, AND J. CHEM.
SOC., DALTON TRANS., P1373, 1972
- 325 72 063 CREMLYN RJW
STUDIES OF ORGANOPHOSPHOROCHLORIDATES. 3. SYNTHESIS OF N-SUBSTITUTED PYROPHOSPHORAMIDES. 4.
SYNTHESIS OF N-SUBSTITUTED PHOSPHORAMIDIC HYDRAZIDES, HYDRAZONES, AND AZIDES. 6. REACTIONS OF
STEREOD PHOSPHOROCHLORIDATES WITH AMINES AND SOME ALCOHOLS
J. CHEM. SOC. C. P2028 AND 3011, 1971, AND J. CHEM. SOC., PERKIN TRANS., 1. P1171, 1972
- 325 72 064 CRISTOL SJ SULLIVAN JM
BRIDGED POLYCYCLIC COMPOUNDS. 65. ELECTROPHILIC ADDITION OF HYDROGEN CHLORIDE, ACETIC ACID, AND
THEIR DEUTERATED ANALOGS TO BENZONORBORNADIENE
JACS. 93. 1967, 1971
- 325 72 065 CURCI R DIFURIA F
OXIDATION OF ORGANOPHOSPHORUS COMPOUNDS. KINETIC ISOTOPE EFFECTS IN OXIDATION OF SOME
DIARYLPHOSPHINE OXIDES BY PEROXYBENZOIC ACID
TETRAHEDRON. 27. 4601, 1971
- 325 72 066 DAHL AJ TAYLOR RC
VIBRATIONAL SPECTRA AND ASSIGNMENTS FOR ISOTOPIC SPECIES OF TETRABORANE(10)
INORG. CHEM., 10. 2508, 1971
- 325 72 067 DALGAARD L LAWESSON S
STUDIES ON ENETHIOLS. 7. THIO-CLAISEN REARRANGEMENTS OF SOME ENETHIOL DERIVATIVES (ALKYLATIONS,
ION-PAIR EXTRACTION TECHNIQUE, THIOPHENES, THIOPYRANS)
TETRAHEDRON. 28. 2051, 1972

- 325 72 068 DANIEL A PAVIA AA
MASS SPECTROSCOPY OF A SERIES OF BORANES. 1. MONOSUBSTITUTED BORANES. 2. AMINOBORANOLS AND
DERIVATIVES
ORG. MASS SPECTRY. 5. 1237 AND 1257. 1971
- 325 72 069 DANNLEY RL
MECHANISM OF THE REARRANGEMENT OF BIS(DIPHENYLPHOSPHINYL) PEROXIDE
J. ORG. CHEM., 37. 418. 1972
- 325 72 070 DAVIS J DRAKE JE
PHOSPHINE-BORANE DERIVATIVES. 4. PROTON NUCLEAR MAGNETIC RESONANCE AND VIBRATIONAL SPECTRA OF SOME
ALKYLPHOSPHINE-BORANES
J. CHEM. SOC. A. P2094. 1971
- 325 72 071 DECKER WH
ORGANOSTANNYL LITHIUM AND ORGANOSTANNYL MAGNESIUM REAGENTS
THESIS, OHIO UNIV., ATHENS, UNIVERSITY MICROFILMS ORDER NO. 71-16,484. DISS. ABS., 32B. 1. 161. 1971
- 325 72 072 DEVLIN CJ WALKER BJ
1. NMR SPECTROSCOPIC STUDIES OF FORMYLMETHYLENETRIPHENYLPHOSPHORANES AND THEIR ALKYLATION PRODUCTS.
2. STEREOCHEMISTRY OF PHOSPHINE INDUCED DEBROMINATION REACTIONS
TETRAHEDRON. 28. 3501. 1972 AND J. CHEM. SOC., PERKIN TRANS., 1. P1249. 1972
- 325 72 073 DIMMEL DR
1. SILATION OF DICHLOROMETHYLLITHIUM IN THE PRESENCE OF EXCESS N-BUTYLLITHIUM. 2. MASS SPECTRA OF
SILANES. MULTIPLE REARRANGEMENTS AND BONDING TO SILICON
J. ORG. CHEM., 37. 2662 AND 2665. 1972
- 325 72 074 DITTER JF WILLIAMS RE
METHYL-CLOSO-CARBORANES. BY-PRODUCTS IN THE SYNTHESIS OF LOWER MOLECULAR WEIGHT CLOSO-CARBORANES
AD-729 692. CHEMICAL SYSTEMS INC., SANTA ANA, CALIFORNIA. 12P
- 325 72 075 DIXON DA HOLTZ D BEAUCHAMP JL
ACIDITY, BASICITY, AND GAS-PHASE ION CHEMISTRY OF HYDROGEN SELENIDE BY ION CYCLOTRON RESONANCE
SPECTROSCOPY
INORG. CHEM., 11. 960. 1972
- 325 72 076 DOLBIER WR
1. THERMAL REORGANIZATIONS OF C₆H₈ HYDROCARBONS. 2. DIMERIZATIONS OF METHYLENECYCLOPROPANES
JACS. 93. 3933. 1971 AND TETRAHEDRON. 28. 3181. 1972
- 325 72 077 DRAKE JE WESTWOOD NP GODDARD N (3)
HALOGENOSILANES. 2. ELECTRICAL DISCHARGE PRODUCTION OF HALOGENODISILANES. 3. FLUORO, CHLORO, AND
BROMO DERIVATIVES OF TRISILANE
J. CHEM. SOC. A. P3302 AND P3305. 1971
- 325 72 078 DREYFUSS RM JOLLY WL
REACTION OF POTASSIUM GERMYL WITH ORGANIC HALIDES
INORG. CHEM., 10. 2567. 1971
- 325 72 079 DRONOV VI KRIVONOGOV VP
SYNTHESIS OF CYCLIC SULFIDES. 2. SYNTHESIS OF 1-THIABICYCLO(4.3.0)NONANE AND
2-METHYL-1-THIABICYCLO(3.3.0)OCTANE
KHIM. GETEROT. SOEDIN., P1185. 1970 IN RUSSIAN
- 325 72 080 DUDINSKAYA AA

A NOVEL HETEROCYCLIC SYSTEM. 2,4-DIAZABICYCLO(1.1.0)BUTANE
TETRAHEDRON. 27. 4053. 1971
- 325 72 081 DUNCAN WP EISENBRA EJ FLANAGAN PW
STEREOCHEMICAL ASSIGNMENT ON ISOMERIC 2,3-DI(2-NAPHTHYL)BUTANE-2,3-DIOLS
CHEM. IND. (LONDON). P18. 1972
- 325 72 082 DUNKELBLUM E
REACTION OF DIPHENYLCYCLOPROPENONE WITH DIBORANE
TETRAHEDRON. 26. 3879. 1972
- 325 72 083 DUNKS GB
PROBABLE FORMATION OF 13-ALUM POLYMERAL COMPLEXES CONTAINING B10C2M12(=2) AND CORRAIT
JACS. 93. 2541. 1971. AD-720 336. CALIFORNIA UNIV., LOS ANGELES, DEPT. OF CHEMISTRY. 13P
- 325 72 084 DUNLOP AN PRICE SJW
PYROLYSIS OF DIMETHYLZINC AND DIMETHYLZINC-D6 BY THE TOLUENE CARRIER METHOD
CAN. J. CHEM., 48. 3205. 1970
- 325 72 085 EABORN C HILL RE SIMPSON P
ORGANOGERMANIUM COMPOUNDS. 11. STEREOCHEMISTRY OF REACTIONS OF OPTICALLY ACTIVE
ETHYL(1-NAPHTHYL)PHENYLGERMYLLITHIUM WITH SOME CARBONYL COMPOUNDS
J. ORGANOMET. CHEM., 37. 267. 1972
- 325 72 086 EAGLES J KNOWLES ME
TRIMETHYLSILYL ESTERS OF AROMATIC AND ALIPHATIC SULFONIC ACIDS. PREPARATION AND MASS SPECTRAL
PROPERTIES
ANAL. CHEM., 43. 1697. 1971
- 325 72 087 EDMUNDSON RS
CYCLIC ORGANOPHOSPHORUS COMPOUNDS. 12. USE OF 2-BENZOYLOXY-5,5-DIMETHYL-2-OXO-1,3,2-
DIOXAPHOSPHORINAN UNDER STERIC CONTROL IN ACYLATIONS
J. CHEM. SOC. C. P2452. 1971
- 325 72 088 EGGER KW COCKS AT (3,6)
REACTIONS OF GROUP-III METALALKYLS IN GAS-PHASE. 3. KINETICS OF INTRAMOLECULAR ELIMINATION OF
BUT-1-ENE FROM DI-N-ALKYL-N-BUTYLALUMINIUM. 4. KINETICS OF HOMOGENEOUS DIMERIZATION OF ETHYLENE TO
1-BUTENE, CATALYZED BY GASEOUS TRIETHYLALUMINIUM. 5. KINETICS OF INTRAMOLECULAR ELIMINATION OF
ISOBUTENE FROM TRIISOBUTYLALUMINIUM. 6. ADDITION OF ETHYLENE TO TRIMETHYLALUMINIUM. 10. ADDITION OF
OLEFINS TO MONOMERIC DIISOBUTYLALUMINIUMHYDRIDE
TRANS. FARADAY SOC., 67. NO. 9, XXX AND XXX. 1971. J. CHEM. SOC. A. NO. 22. XXX. 1971. JACS. 94.
1810. 1972. AND HELV. CHIM. ACTA. 55. 1502. 1972

- 325 72 089 EGGLETON GL
MASS SPECTRAL STUDY OF MONOALKOXY AND AMINOETHOXY ALUMINUM COMPOUNDS
THESIS. UNIV. OF IOWA. IOWA CITY. UNIV. MICROFILMS ORDER NO. 72-8237. DISS. ABS.. 328. 9. 5083. 1972
- 325 72 090 EVANS WJ HAWTHORNE MF
1. AN 11-ATOM POLYHEDRAL METALLOCARBORANE FORMED FROM 1,6-CLOSO-8B2H10 BY POLYHEDRAL EXPANSION. 2. COBALT COMPLEXES CONTAINING 8B2H10(-2) PREPARED BY THE REDUCTION OF 1,6-8B2H10
JACS. 93. 3063. 1971 AND AD-721 424. CALIFORNIA UNIV., LOS ANGELES. DEPT. OF CHEMISTRY. 9P
- 325 72 091 FARNUM DG
NMR SPECTRA OF CYCLIC 1,3-DIPHENYLLALLYL CATIONS. SOME OBSERVATIONS ON 1,3-ORBITAL INTERACTIONS
J. ORG. CHEM.. 36. 698. 1971
- 325 72 092 FEAST WJ
DIELS-ALDER REACTIONS OF POLYFLUOROCYCLOHEXA-1,3-DIENES. 4. ADDITION OF ALKYNES TO 1H,2 H-HEXAFLUOROCYCLOHEXA-1,3-DIENE. 6. REACTIONS OF DODECAFLUOROTRICYCLO(5.2.2.0(2,6))UNDECA-2,5,8-TRIENE WITH ETHYLENE AND ALKYNES. A SYNTHESIS OF POLYFLUOROTRICYCLO(6.2.2.0(2,7))DODECA-2,4,6,9-TETRAENES AND 2,3-DISUBSTITUTED HEXAFLUORONAPHTHALENES
J. CHEM. SOC. C. P1547. 1971 AND J. CHEM. SOC., PERKIN TRANS.. I. P1830. 1972
- 325 72 093 FEAST WJ PRESTON WE
PHOTOCHEMICAL ISOMERIZATION OF SOME FLUORINATED POLYCYCLICPOLYENES. A POSSIBLE PHOTOCHEMICAL 1,5-SIGMATROPIC MIGRATION OF A FLUORINE ATOM
TETRAHEDRON. 28. 2805. 1972
- 325 72 094 FLEMING GL HASZELDINE RN TIPPING AE
POLYFLUOROALKYL DERIVATIVES OF NITROGEN. 30. REACTION OF N-CHLOROBISTRIFLUOROMETHYLAMINE WITH PROPENE AND VINYL FLUORIDE AND OF N-IODOBISTRIFLUOROMETHYLAMINE WITH VINYL FLUORIDE
J. CHEM. SOC. C. P3829. 1971
- 325 72 095 FLISZAR S
CHARGE DISTRIBUTION AND CHEMICAL EFFECTS IN SATURATED HYDROCARBONS
JACS. 94. 1068. 1972
- 325 72 096 FORSHAW TP TIPPING AE
UNSATURATED NITROGEN COMPOUNDS CONTAINING FLUORINE. 1. THERMAL AND PHOTOCHEMICAL REACTIONS OF HEXAFLUOROACETONE AZINE WITH ACETYLENE AND WITH HYDROCARBON TERMINAL OLDFINS. 2. REACTIONS OF HEXAFLUOROACETONE AZINE WITH CIS AND TRANS-BUT-2-ENE AND CYCLOHEXENE
J. CHEM. SOC. C. P2404. 1971 AND J. CHEM. SOC., PERKIN TRANS.. I. P1059. 1972
- 325 72 097 FOSTER AG
MASS SPECTRUM OF NATURALLY ABUNDANT ETHYLGEMANE
SPECTROSC. LTRS. 5. NO. 8. 263. 1972
- 325 72 098 FOX JE YOUNG DW
REACTION OF DIPHENYLMETHYLENE WITH NONCONJUGATED DIENES
J. CHEM. SOC., PERKIN TRANS.. I. P507. 1972
- 325 72 099 FRANZ DA
SYNTHESIS. STRUCTURE. AND REACTIONS OF 1,2-DICARBAPENTABORANE(7)
JACS. 94. 412. 1972
- 325 72 100 FREEMAN GH LLOYD D
PREPARATION AND REACTIONS OF TRIPHENYLARSENICUM CYCLOPENTADIENYLIDE
J. CHEM. SOC. C. P3164. 1971
- 325 72 101 FRIDMANN SA FEHLNER TP
REACTIONS OF BORANE (BH3). 3. ABSOLUTE RATES OF FORMATION OF CONOR-ACCEPTOR ADDUCTS, BH3PF3 AND BH3N(CH3)3. 5. MASS SPECTROMETRIC OBSERVATION OF PRODUCTS OF ADDITION TO DIBORANE(6) AND PENTABORANE(9)
J. PHYS. CHEM.. 75. 2711. 1971 AND INORG. CHEM.. 11. 936. 1972
- 325 72 102 FRIEDMANN N
HIGH TEMPERATURE PYROLYSIS OF C1 TO C4 HYDROCARBONS
J. ORG. CHEM.. 35. 3230. 1970
- 325 72 103 FRIEDRICH EC HOLMSTEAD RL
CYCLOPROPYLCARBINYL-ALLYLCARBINYL RADICAL REARRANGEMENTS. 1. THE BENZODICYCLO(4.1.0)HEPTENE SYSTEM. 2. THE SIMPLE BICYCLO(3.1.0)HEXYL AND (4.1.0)HEPTYL SYSTEMS
J. ORG. CHEM.. 37. 2546 AND 2550. 1972
- 325 72 104 FRIEDRICH HJ
CYCLOADDITION VON CHLORSULFONYLSOCYANAT AN SILBEN
TETRAHEDRON LTRS. P2981. 1971
- 325 72 105 FRIEDRICH LE SCHUSTER GS
1. STEREOCHEMISTRY OF THE ALDER-ENE REACTION BETWEEN 2,3,3-TRIMETHYL-1-BUTENE AND MALEIC ANHYDRIDE. 2. CYCLOPROPYLCARBINYL CATION REARRANGEMENTS IN THE BICYCLO(4.1.0)HEPT-2-YL SYSTEM. 3. IRRADIATION OF ALPHA,BETA-UNSATURATED KETONES. SEARCH FOR INTERMEDIATE OXABICYCLOBUTANES
TETRAHEDRON LTRS. P2783 AND P3171. 1971. AND JACS. 94. 1193. 1972
- 325 72 106 FRITZ G BERNDT M
SI-FLUORIERTE CARBOSILANE (SI-FLUORINATED CARBOSILANES)
ANGEW. CHEM.. 83. 500. 1971 AND ANGEW. CHEM. INT. ED. ENGL.. 10. 510. 1971
- 325 72 107 FRYE CL KLOSOWSKI JM
CARBORUNDANES. 2. DERIVATIVE CHEMISTRY OF A VERY RELUCTANTLY REACTIVE BRIDGEHEAD SILICON CENTER
JACS. 94. 7186. 1972
- 325 72 108 FUJII A MILLER SI
NUCLEOPHILIC SUBSTITUTION AT ACETYLENIC CARBON. KINETICS AND MECHANISM OF THE ARBUZOV REACTION OF SUBSTITUTED PHENYLBROMIDE AND PHENYLCHLOROACETYLENES WITH TRIETHYL PHOSPHITE
JACS. 93. 3694. 1971
- 325 72 109 GAJEWSKI JJ SHIH CN (S)
HYDROCARBON THERMAL DEGENERATE REARRANGEMENTS. 4. STEREOCHEMISTRY OF THE METHYLENECYCLOPROPANE SELF-INTERCONVERSION. CHIRAL AND ACHIRAL INTERMEDIATES. 5. STEREOCHEMISTRY OF THE 1,2-DIMETHYLENECYCLOBUTANE SELF INTERCONVERSION AND ITS RELATION TO THE ALLENE DIMERIZATION AND THE REARRANGEMENTS OF OTHER C6H8 ISOMERS
JACS. 93. 4450. 1971 AND 94. 1675. 1972

- 325 72 110 GAJEWSKI JJ BURKA LT (1) SHIH CN (2)
1. STEREOCHEMISTRY OF AND ALTERATION IN THE MECHANISM OF THE SPIROPENTANE TO METHYLENOCYCLOBUTANE
THERMAL REARRANGEMENT BY POLAR SUBSTITUENTS. 2. CHARACTERIZATION OF THE DIMETHYL-1,2-
DIMETHYLENOCYCLOBUTANES FROM THE METHYLLALLENE THERMAL DIMERIZATION
JACS. 93. 4952. 1971 AND J. ORG. CHEM. 37. 64. 1972
- 325 72 111 GARRATT PJ
SYNTHESIS OF 6,7-DIPHENYL-3-THIABICYCLO(3.2.0)HEPTATRIENE, A THIENOCYCLOBUTADIENE
JACS. 94. 1022. 1972
- 325 72 112 GASPAR PP MARKUSCH P (1) CHOO KY (1) HOLTEN JO (1)
1. SILICON ATOMS: RECOIL CHEMISTRY. 2. AND 3. REACTION STUDIES OF HOT SILICON AND GERMANIUM RADICALS
1. COO-1713-21. 32P. CONF-710332-1. FROM NUCLEAR AWARD SYMPOSIUM, LOS ANGELES, CALIF., MARCH 30.
1971. 2. COO-1713-25. PROGRESS REPORT, SEPT. 1970 - SEPT. 1971. 14P. 3. COO-1713-36. PROGRESS
REPORT, SEPT. 1971 - SEPT. 1972. 17P. WASHINGTON UNIV., ST. LOUIS, MO., DEPT. OF CHEMISTRY. NTIS
- 325 72 113 GASSMAN PG NAKAI T
TRANSITION METAL COMPLEX INDUCED REARRANGEMENT OF 1-METHYL-2,2-DIPHENYLBICYCLO(1.1.0)BUTANE. A NEW
ROUTE TO AZULENES
JACS. 93. 5897. 1971
- 325 72 114 GAUTIER J MIOQUE M COMBET FA
REACTIVITE DES AMINO-4-DIPHENYL-1,1-BUTEN-1-ONES-3. 1. REACTIONS DU SYSTEME CARBONYLE CONJUGUE
BULL. SOC. CHIM. FRANCE. P682. 1972
- 325 72 115 GAYMARD F
ETUDE EN SPECTROMETRIE DE MASSE. 5. CYCLOALCANES DIFONCTIONNELS
BULL. SOC. CHIM. FRANCE. P2238. 1971
- 325 72 116 GAZIZOV TK PASHINKI AP MARTYNOV AA
DIETHYLACETYL PHOSPHITE REACTIONS WITH MERCAPTANS
ZH. OBSHCH. KHIM., 41. 2809. 1971 IN RUSSIAN
- 325 72 117 GELUK HW DE BOER TJ
1. PENTACYCLO(4.4.0.0(2.10).0(3.5).0(4.8))DECANE AND TETRACYCLO(4.4.0.0(2.10).0(4.8))DECANE. 2.
SYNTHESIS AND STRUCTURE ANALYSIS OF 2,4,6,9-TETRAHYDROADAMANTANE (PENTACYCLO(4.
4.0.0(2.10).0(3.5).0(4.8))DECANE), A NOVEL STRAINED POLYCYCLIC HYDROCARBON
J. CHEM. SOC., CHEM. COMMUN. P3. 1972 AND TETRAHEDRON. 28. 3351. 1972
- 325 72 118 GERLACH DM PEET WG MUELLER EL
STEREOCHEMICALLY NONRIGID SIX-COORDINATE MOLECULES. 2. PREPARATIONS AND REACTIONS OF
TETRAKIS(ORGANOPHOSPHORUS)-METAL DIHYDRIDE COMPLEXES
JACS. 94. 4545. 1972
- 325 72 119 GERTEISEN TJ
PROPERTIES OF 2-ARYLNORBORNENE OXIDES AND OF THE DIMER FORMED BY DEHYDRATION OF
2-P-ANISYLNORBORNANE-2,3-CIS-EXO-DIOL
TETRAHEDRON. 27. 3013. 1971
- 325 72 120 GILCHRIST TL
REACTIVE INTERMEDIATES. 15. THERMOLYSIS OF 1-(3,4-DIHYDRO-4-OXOQUINAZOLIN-3-YL)-2-VINYLAZIRIDINES. A
NEW VINYLAZIRIDINE REARRANGEMENT
J. CHEM. SOC. C. P3036. 1971
- 325 72 121 GLOCKING F STRAFFORD RG
ELECTRON IMPACT STUDIES ON SOME GROUP-III METAL ALKYL
J. CHEM. SOC. A. P1761. 1971
- 325 72 122 GOODINGS EP
SYNTHESIS, STRUCTURE, AND ELECTRICAL PROPERTIES OF NAPHTHACENE, PENTACENE, AND HEXACENE SULPHIDES
J. CHEM. SOC., PERKIN TRANS. I. P1310. 1972
- 325 72 123 GORE PH
FRIEDEL-CRAFTS ACYLATIONS OF AROMATIC HYDROCARBONS. 10. BENZOYLATION OF PHENANTHRENE
J. CHEM. SOC. C. P2329. 1971
- 325 72 124 GORNOWICZ GA WEST R
POLYLITHIUM COMPOUNDS. 4. POLYLITHIATION OF NITRILES AND THE PREPARATIONS OF TRISILYL YNAMINES
JACS. 93. 1714. 1971
- 325 72 125 GOTZE HJ
NOTIZ ZUR DARSTELLUNG VON TETRANEOPENTYLZINN UND TRINEOPENTYLPHENYLZINN
CHEM. BER., 104. 3719. 1971
- 325 72 126 GREEN B SOWERBY DB CLARE P
CYCLIC INORGANIC COMPOUNDS. 11. FLUORINATION OF TRIS AND
TETRAKIS-DIMETHYLAMINOCYCLOTRIPHOSPHONITRILES
J. CHEM. SOC. A. NO. 22. XXX. 1971
- 325 72 127 GRIESBAUM K
ELECTROPHILIC CYCLODIMERIZATION OF TERT-BUTYLACETYLENE WITH HYDROGEN CHLORIDE
ANGEW. CHEM., 82. 841. 1970 IN GERMAN
- 325 72 128 GRIMES RN
CARBORANES CONTAINING GALLIUM AND INDIUM CAGE HETERATOMS. SYNTHESIS, MOLECULAR STRUCTURE, AND
REACTIONS
JACS. 94. 1805. 1972
- 325 72 129 GRISDALE PJ GLOGOWSK ME WILLIAMS JL
BORON PHOTOCHEMISTRY. 6. POSSIBLE ROLE OF BRIDGED INTERMEDIATES IN THE PHOTOLYSIS OF BORATE
COMPLEXES. 8. OXIDATIVE PHOTOCYCLIZATION OF ANILINOBORANES
J. ORG. CHEM., 36. 544 AND NO. 24. XXX. 1971
- 325 72 130 GROOTVELD HH
BROMO-1-ETHOXY-7-NORBORNYL MAGNESIUM, A STABLE ALICYCLIC BETA-ALKOXY SUBSTITUTED GRIGNARD COMPOUND
TETRAHEDRON LETS, P1999. 1971
- 325 72 131 GROVENSTEIN E
CARBANIONS. 11. REACTIONS OF 4-CHLORO-1,1,1-TRIPHENYLBUTANE, 5-CHLORO-1,1,1-TRIPHENYLPENTANE, AND 1
1,1,1-TRIPHENYLETHANE WITH ALKALI METALS. 1,4 AND 1,5 MIGRATION OF PHENYL
J. ORG. CHEM., 37. 1281. 1972

- 325 72 132 GRUNDKE H PAETZOLD PI
DARSTELLUNG UND EIGENSCHAFTEN VON CYCLOPENTADIENYLDIATHYLBORAN
CHEM. BER., 104, 1136, 1971
- 325 72 133 GRUNDON MF
LITHIUM ALKYL(HYDRO)DIPINAN-3ALPHA-YLBORATES. NEW REAGENTS FOR ASYMMETRIC REDUCTION OF KETONES
J. CHEM. SOC. C, P2557, 1971
- 325 72 134 GUNN SR
ENTHALPIES OF FORMATION OF ARSINE AND BIARSINE
INORG. CHEM., 11, 796, 1972
- 325 72 135 HAAKE P OSSIP PS (1) DIEBERT CE (2)
1. SN1 MECHANISMS IN DISPLACEMENT AT PHOSPHORUS. SOLVOLYSIS OF PHOSPHINYL CHLORIDES. 2. PHOSPHINIC
ACIDS AND DERIVATIVES. PYROLYTIC ELIMINATION IN PHOSPHINATE ESTERS
JACS, 93, 6924 AND 6931, 1971
- 325 72 136 MAHN RC HOWARD PH
CYCLOPROPANE ANISOTROPY. EFFECTS OF SYSTEMATICALLY VARIED CYCLOPROPANE GEOMETRIES IN AROMATIC
SYSTEMS
JACS, 94, 3143, 1972
- 325 72 137 HASZELDINE RN
1. POLYFLUOROCYCLOPENTADIENES. VI. SYNTHESIS OF 1- AND 5-CHLOROPENTAFLUOROCYCLOPENTADIENE. 2.
FLUORO-OLEFINS. VII. SOME THERMAL DIELS-ALDER REACTIONS OF PERFLUOROCYCLOHEXA-1,3-DIENE
J. CHEM. SOC. C, P2531 AND P2539, 1970
- 325 72 138 HEIMGARTNER H
THERMISCHES VERHALTEN VON 1,2-DIPROPENYLBENZOLEN
HELV. CHIM. ACTA, 55, 1385, 1972
- 325 72 139 HEINE HG
CYCLOBUTANDION-(1,2)
CHEM. BER., 104, 2869, 1971 IN GERMAN
- 325 72 140 HENDRICKSON JB BOECKMAN RK
CYCLOPROPANES. 2. AN-ELECTROPHILIC ADDITION WITH NUCLEOPHILE RETENTION
JACS, 93, 4491, 1971
- 325 72 141 HISCOCK M PORTER GB
ANTIMONY HALIDES AS SOLVENTS. 9. DIMERISATION OF TRANS-STILBENE IN MOLTEN ANTIMONY TRICHLORIDE
J. CHEM. SOC., PERKIN TRANS., II, P79, 1972
- 325 72 142 HOFLER M SCHNITZLER M
EINE NEUE METHODE ZUR DARSTELLUNG VON PHOSPHINKOMPLEXEN DER UBERGANGSMETALLE
CHEM. BER., 104, 3117, 1971
- 325 72 143 HOLLINS RE
MOLECULAR BEAM MASS SPECTRA AND PYROLYSES OF PENTABORANE(9), TETRABORANE CARBONYL, AND
PENTABORANE(11): FORMATION AND MASS SPECTRUM OF B₄H₈
THESIS. NORTHWESTERN UNIV., EVANSTON, ILL. UNIV. MICROFILMS ORDER NO. 71-1870. DISS. ABS., 318, 7,
3956, 1971
- 325 72 144 IGETA M
REACTIONS OF 5,6-BENZO-1,2,3-TRIAZINE 3-OXIDES WITH PHENYLMAGNESIUM BROMIDE
TETRAHEDRON LETS, P3117, 1971
- 325 72 145 IMAI N
STEREOSPECIFIC ADDITION REACTION BETWEEN BUTADIENE AND AMINES
TETRAHEDRON LETS, P3517, 1971
- 325 72 146 IRVINE I KEAT R
DIMETHYLAMINO DERIVATIVES OF BIS(DICHLOROPHOSPHINYL)METHYLAMINE, (CL₂P(O))₂NME
J. CHEM. SOC., DALTON TRANS., P17, 1972
- 325 72 147 ITA S ITAH I
CYCLOADDITION REACTION OF TROPYLIUM ION AND CYCLOPENTADIENE
TETRAHEDRON LETS, P2969, 1971
- 325 72 148 IVERSON PE
DARSTELLUNG VON AZOXYMETHAN UND 1,2-DIMETHYLHYDRAZIN AUS NITROMETHAN UND VON AZOXYCYCLOPROPAN AUS
NITROCYCLOPROPAN
CHEM. BER., 104, 2195, 1971
- 325 72 149 JEWETT GL VOIGT AF
RECOIL REACTION PRODUCTS OF C(11) IN C5 HYDROCARBONS
J. PHYS. CHEM., 75, 3201, 1971
- 325 72 150 JEYAPANDIAN S SAVARI RAJ GA
MOLECULAR CONSTANTS OF SUBSTITUTED ETHYLENE-TYPE MOLECULES. 1. CORIOLIS COUPLING CONSTANTS AND
INERTIA DEFECTS OF VINYLIDENE HALIDES AND THEIR DEUTERATES. 2. CENTRIFUGAL DISTORTION CONSTANTS
J. MOL. STRUCT., B, 97 AND 107, 1971
- 325 72 151 JONES PF LAPPERT MF
WITTIG-TYPE REACTIONS OF 2-LITHIO-2-TRIMETHYLSILYL-1,3-DITHIAN: AN IMPROVED AND EXTENDED SYNTHESIS
OF ALKYLIDENEDITHIANS
J. CHEM. SOC., CHEM. COMMUN., P526, 1972
- 325 72 152 JUTZI P
9-SILA-GERMA UND STANNADIIHYDROANTHRACENE
CHEM. BER., 104, 1455, 1971
- 325 72 153 KARIPIDE A GRAF J
MOLECULAR STRUCTURE OF BISTROPOLONATOBORON(III) ION
INORG. NUCL. CHEM. LETS, B, 161, 1972
- 325 72 154 KELLER PC
REACTION OF DIBORANE WITH TRIS(DIMETHYLAMINO)ALANE. ISOLATION OF A NEW B-N-AL HETEROCYCLE AND A NEW
COMPOUND WITH A B-N-B-N-B SKELETON
JACS, 94, 4020, 1972

- 325 72 155 KELSEY DR BERGMAN RG
STEREOCHEMISTRY OF SOLVOLYTIC DISPLACEMENT AT VINYL CARBON. REACTIONS OF 1-CYCLOPROPYL-2-METHYLVINYL
CATIONS FORMED ON SILVER-CATALYZED IONIZATION OF CIS AND TRANS-1-CYCLOPROPYL-1-iodopropenes AND 3
-4-HEXADIEN-1-YL IODIDE
JACS. 93. 1941. 1971
- 325 72 156 KHANDÉLWAL JK FOSTER AG PINSON JW
1. MASS SPECTRUM OF NATURALLY ABUNDANT TETRAGERMANE. 2. MASS SPECTRUM OF NATURALLY ABUNDANT
PENTAGERMANE AND HEXAGERMANE
SPECTROSC. LTRS. 5. 147 AND 235. 1972
- 325 72 157 KHODEEV YS KIRIN BM
MASS SPECTRUM OF ZIRCONIUM BOROHYDRIDE
ZH. STRUKT. KHIM.. 12. 531. 1971 IN RUSSIAN
- 325 72 158 KIEFFER R LEIMER G ETTMAYER P GUGEL E
STUDY OF THE BORON-CARBON-SILICON SYSTEM
UCRL-TRANS-10637. TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB.. LIVERMORE, FROM BER.
DEUT. KERAM. GES.. 49. NO. 2. 41. 1972. 20P. NTIS
- 325 72 159 KIFER EW VAN DYKE CH
USE OF PHOSPHORUS PENTAFLUORIDE AS A FLUORINATION AGENT IN ORGANOSILICON CHEMISTRY. 3. SYNTHESIS AND
CHARACTERIZATION OF SOME NEW FLUOROSILOXANES
INORG. CHEM.. 11. 404. 1972. 41 REFERENCES
- 325 72 160 KING RB EFRATY A (1,2)
1. SOME NOVEL REACTIONS OF VINYL ISOCYANIDE WITH ORGANOPHOSPHORUS AND ORGANOARSENIC COMPOUNDS. 2.
COMPLEXES OF TRIVALENT PHOSPHORUS DERIVATIVES. XIV. METAL COMPLEXES OF
DIPHENYLPHOSPHINOPHENYLACETYLENE. 3. NOVEL CYANOCARBON DERIVATIVES. 4. SOME RECENT STUDIES ON
POLY(TERTIARY PHOSPHINES) AND THEIR METAL COMPLEXES
1. AD-736 079. 1970. NTIS. 2. AD-741 993. 1970. NTIS. 3. AD-746 829. 1972. NTIS. 4. ACCOUNTS CHEM.
RES.. 5. NO. 5. 177. 1972
- 325 72 161 KING RB KAPOOR PN KAPOOR R SARAN M
POLYTERTIARY PHOSPHINES AND ARSINES. 1. SYNTHESIS OF POLYTERTIARY PHOSPHINES AND ARSINES BY THE BASE
CATALYZED ADDITION OF PHOSPHORUS-HYDROGEN AND ARSENIC-HYDROGEN BONDS TO VINYLPHOSPHINES. 2.
SYSTEMATICS OF POLYTERTIARY PHOSPHINES AND THEIR METAL COMPLEXES. 3. METAL COMPLEXES OF THE
TRITERTIARY PHOSPHINE, BIS(2-DIPHENYLPHOSPHINOETHYL)PENYLPHOSPHINE. 4. METAL COMPLEXES OF TWO
ISOMERIC TETRATERTIARY PHOSPHINES. 5. METAL COMPLEXES OF A HEXATERTIARY PHOSPHINE
1. JACS. 93. 4158. 1971. AD-742 013. 1970. NTIS. 2. AD-736 077. 1971. NTIS. 3. AD-742 015. 1971.
NTIS. 4. AD-735 575. 1971. NTIS. 5. AD-742 016. 1971. NTIS
- 325 72 162 KIRK RW
PERHALOGENATED POLYBORON AND SILICON-BORON ANALOGUES OF BORANE
J. CHEM. SOC., DALTON TRANS., P1392. 1972
- 325 72 163 KLEIN J GLILY S
METALATION REACTIONS. 9. AN APPARENT SUPRAFACIAL 1,6-HYDROGEN SHIFT IN A PENTADIENYL LITHIUM
DERIVATIVE
TETRAHEDRON. 27. 3477. 1971
- 325 72 164 KLIGER GA BASHKIRO AN POLAK LS
OPTIMIZATION OF SYNTHESIS OF PRIMARY ALKYLAMINES FROM NORMAL ALIPHATIC ALCOHOLS AND AMMONIA
PETROL. CHEM. USSR (ENGL. TRANS.), 10. NO. 4. 279. 1970
- 325 72 165 KNIGHT DB

PROTONATION AND DEUTERATION OF THE ISOPROPENYLCYCLOPENTADIENYL ANION. TRAPPING OF THE ISOMERIC
PRODUCT MIXTURE
J. ORG. CHEM., 37. 688. 1972
- 325 72 166 KOBAYASHI Y KUMADAKI I TAGUCHI S
STUDIES ON ORGANIC FLUORINE COMPOUNDS. 9. REACTIONS OF TRIFLUOROMETHYLQUINOLINES WITH METAL HYDRIDES
CHEM. PHARM. BULL. (TOKYO). 20. 823. 1972
- 325 72 167 KOLAR AJ OLSEN RK
DISULFIDES OF 2-MERCAPTOCYCLOHEXANOL
J. ORG. CHEM., 36. 591. 1971
- 325 72 168 KUSOVYSE VV CHISTOKL VH PETROV AA
1,3-BIPOLAR ADDITION TO UNSATURATED COMPOUNDS. 27. ALKENYLPHOSPHINE REACTIONS WITH NITRILIMINES. 28.
ALKENYLPHOSPHONITE REACTIONS WITH NITRILIMINES
ZH. OBSSHCH. KHIM.. 41. 2643 AND 2649. 1971 IN RUSSIAN
- 325 72 169 KOSTYANOVSKY RG POTAPOV VK ISKAKOV LI
MASS SPECTRA OF ETHYL DERIVATIVES OF GROUP-V ELEMENTS
DOKL. AKAU. NAUK SSSR. 204. 913. 1972 IN RUSSIAN
- 325 72 170 KRETCHMER RA
1. 1,4-ADDITION OF ORGANOMETALLIC REAGENTS TO ALPHA,BETA-UNSATURATED KETONES IN THE PRESENCE OF (-)-
SPARTEINE. 2. REACTION OF BENZALACETOPHENONE WITH METHYLMAGNESIUM IODIDE. A NOVEL GRIGNARD
REACTION
J. ORG. CHEM., 37. 2744 AND 2747. 1972
- 325 72 171 KRIVUN SV VOZIYAND OF BARANDV SN
PYRANYLIDENEPHOSPHORANE REACTIONS WITH CARBONYL COMPOUNDS
ZH. OBSSHCH. KHIM.. 42. 298. 1972 IN RUSSIAN
- 325 72 172 KRYUKOVA TR STADNICH MD PETROV AA
ARYLSULFONYL CHLORIDE ADDITIONS TO 1-TRIMETHYLSILYL-3-BUTEN-1-YNE
ZH. OBSSHCH. KHIM.. 42. 470. 1972 IN RUSSIAN
- 325 72 173 KUSHNER R ROWLAND FS
REACTIONS OF RECOIL TRITIUM ATOMS WITH 1-BUTENE AND CIS-2-BUTENE. AVERAGE ENERGY OF THE ADDITION
REACTION
J. PHYS. CHEM., 75. 3771. 1971
- 325 72 174 KUSUDA K
OCTACHLORO CYCLOHEPTATRIENE AND RELATED COMPOUNDS
JACS. 93. 3627. 1971

- 325 72 175 KWON CT
PREPARATION OF AMINOBORANE AND LOW TEMPERATURE MASS SPECTROMETRIC STUDIES OF ITS REACTIVITY AND
ENERGETICS
AD-711 439. GEORGIA INST. OF TECHNOLOGY, ATLANTA. 102P
- 325 72 176 LAGEOT C MAIRE JC (2,3) LIMOUZIN Y (3)
1. ETUDE PAR SPECTROMETRIE DE MASSE DE CIO DI-N-PHENYLAMINE TRICYCLO(4.2.0.0(2.5))OCTANES. 2. ETUDE
PAR SPECTROMETRIE DE MASSE DE QUATRE CYCLODISILAZANES. 3. INTERACTION ENTRE L'ATOME DE SILICIUM ET
LE NOYAU PHENYL. IV. ETUDE DU SPECTRE DE MASSE DE LA P-(TRIMETHYLSILYL)ACETANILIDE
BULL. SOC. CHIM. FRANCE. P3723. 1971. J. ORGANOMET. CHEM., 37. 239. 1972. AND 38. 23. 1972
- 325 72 177 LALONDE RT DEBOLLI AD DING JY
1. ACID PROMOTED OPENING OF THE THREE MEMBERED RING IN ENDO-6-METHYLBICYCLO(3.1.0)HEXANE. 2.
CHARACTERISTICS OF VARIOUS REACTIONS OF BROMINE WITH ARYLCYCLOPROPANES. 3. REARRANGEMENT
ACCOMPANYING THE ADDITION OF ACETIC ACID TO TWO BICYCLO(1.1.0)ALKANES
J. ORG. CHEM., 35. 2657. 1970. AND 37. 1094 AND 2555. 1972
- 325 72 178 LALOR FJ PAXSON T HAWTHORNE MF
NUCLEOPHILIC SUBSTITUTION AT TETRAEDRAL BORON. METHYLAMINE-DIARYLBORANE SUBSTATES
JACS. 93. 3156. 1971
- 325 72 179 LAMBERT JB OLIVER WL
CONFORMATIONAL ANALYSIS OF PHOSPHACYCLOHEXANES
TETRAHEDRON. 27. 4245. 1971
- 325 72 180 LAMPE FW
RADIATION CHEMISTRY AND MASS SPECTROMETRY OF SILANE SYSTEMS
NYO-3570-19. ANNUAL PROGRESS REPORT. PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. JUNE 1971. 36P. NTIS
- 325 72 181 LAY WP
SYNTHESIS AND FRAGMENTATION REACTIONS OF CYCLIC AZO-COMPOUNDS, STEREOCHEMISTRY AND TRANSFORMATIONS
OF PHOTO-DERIVED BICYCLO(2.1.0)PENTANES, AND THERMAL CYCLOREVERSION REACTIONS OF TRICYCLO(6
.2.1.0(2.7))UNDECATRIENES AND RELATED COMPOUNDS
J. CHEM. SOC. C. P3199. 1971
- 325 72 182 LEE LA WHEELER JW
PMR SPECTRA OF SOME TETRAZOLES, TRIAZOLES, AND TETRAZOLIUM AND TRIAZOLIUM SALTS
J. ORG. CHEM., 37. 348. 1972
- 325 72 183 LEN M VOROB'EV LN PETROV AA
VAPOR-PHASE HYDROCHLORINATION OF MONOSUBSTITUTED ACETYLENE HYDROCARBONS
ZH. ORG. KHIM., 8. NO. 2. 258. 1972 IN RUSSIAN
- 325 72 184 LENGUEL I AARONSON MJ
ELECTRON IMPACT INDUCED FRAGMENTATION OF SOME 5,10-DIHYDROPHENAZASTANNINES
J. ORGANOMET. CHEM., 42. 55. 1972
- 325 72 185 LEVY JB LEHMANN EJ (1) WHITEHEAD GW (2) GRANTH I (2)
1. THERMAL DECOMPOSITION OF 2,2'-DIPHENYL-2,2'-AZOHEXAFLUOROPROPANE. 2. PREPARATION, IR, UV, NMR,
AND MASS SPECTRAL FRAGMENTATIONS OF NEW SUBSTITUTED PHENOXAPHOSPHINIC ACIDS
JACS. 93. 5790. 1971 AND ISRAEL J. CHEM., 10. 27. 1972
- 325 72 186 LINDBERG BJ HOGBERG S MALMSTEN G
ESCA SPECTRA OF ALPHA-(1,2-DITHIOL-3-YLIDENE) CARBONYL COMPOUNDS AND SOME SYMMETRICALLY SUBSTITUTED
1,6,6A-S(IV)-TRITHIA-PENTALENES
ARK. KEM., 1. NO. 4. 183. 1971
- 325 72 187 LINDNER E
DAS UNGEWÖHNLICHE VERHALTEN VON PERFLUORACYLDIARYLPHOSPHINEN GEGENÜBER NITROXY- UND CARBONYLSTOFFEN
CHEM. BER., 104. 3121. 1971
- 325 72 188 LINKE KM LAUBERT R
1. BEITRÄGE ZUR CHEMIE DES HYDRAZINS UND SEINER DERIVATE. XXII. STICKSTOFF-KOMPLEXE VON BARIUM,
STRONTIUM UND CALCIUM. 2. DARSTELLUNG VON DERIVATEN DER DIHYDRAZINSULFANE. 3. NOTIZ ÜBER DIE
HYDROGERMYLIERUNG EINER N=N-DOPPELBINDUNG
Z. ANORG. ALLG. CHEM., 383. 74. 1971. CHEM. BER., 104. 2343. 1971. AND 105. 1780. 1972
- 325 72 189 LIPOWITZ J
FLUORINE-19 SUBSTITUENT CHEMICAL SHIFTS OF FLUOROPHENYLSILANES. SUBSTITUENT EFFECTS ON SILICON
JACS. 94. 1582. 1972
- 325 72 190 LIPTUGA NI VASILEV VV DERKACH GI
TRIMETHYLSILYLMETHYLPHOSPHONIC ACID DERIVATIVES
ZII. OBSSHCH. KHIM., 42. 293. 1972
- 325 72 191 LITTLE JL WONG AC
PHOSPHAUDECABORANES
JACS. 93. 522. 1971
- 325 72 192 LLOYD D SINGER MIC
THERMOLYSIS OF DIAZOTETRAPHENYLCYCLOPENTADIENE IN THE PRESENCE OF AMINES
J. CHEM. SOC. C. P2939. 1971
- 325 72 193 LOFFREDO RE NORMAN AD
GERMA AND STANNAUNDECABORANES
JACS. 93. 5587. 1971
- 325 72 194 LORENZ P
DARSTELLUNG UND THERMOLYSE VON CYCLOALKAN UND 1-METHYLCYCLOALKANPERCARBONSAURE(1)-TERT.-BUTYLESTERN
CHEM. BER., 104. 3429. 1971
- 325 72 195 MARCHAND AP MARCHAND NW
NMR STUDIES OF RIGID BICYCLIC SYSTEMS. 3. ASSIGNMENT OF CHEMICAL SHIFT VALUES IN NMR SPECTRUM OF
NORBORNANE
TETRAHEDRON LETS. P1365. 1971
- 325 72 196 MARTINELLI L
THREE-MEMBERED RINGS. 3. ULTRAVIOLET SPECTRAL EVIDENCE OF A STEREOCHEMICAL BIAS IN RIGID
P-NITROPHENYLCYCLOPROPANES
J. ORG. CHEM., 37. 2278. 1972

- 325 72 197 MARUCA R OERTEL M (2) ROSEMAN L (2)
1. REACTION OF 1,1-DIMETHYL-2,5-DIPHENYL-1-SILACYCLOPENTADIENE WITH DIPHENYLACETYLENE, 2,3-DIMETHYL-1,3-BUTADIENE, AND BENZYNE. 2. MASS SPECTRA OF PHENYL-SUBSTITUTED 1,1-DIMETHYLSILACYCLOPENTANES AND SILACYCLOPENTADIENES, AND OF 1,1,4,4-TETRAMETHYL-2,3,5,6-TETRAPHENYL-1,4-DISILACYCLOHEXADIENE
J. ORG. CHEM., 36, 1626, 1971 AND J. ORGANOMET. CHEM., 35, 253, 1972
- 325 72 198 MATTESON DS HOTA NK
BENZOCARBORANE. HIGH STABILITY BUT LITTLE AROMATIC CHARACTER
JACS, 93, 2893, 1971
- 325 72 199 MCAVOY JS
STUDY OF HALOGEN SUBSTITUTION IN 4,5-DICARBA-NIDO-HEXABORANE(8) AND ITS C-METHYL DERIVATIVES
J. CHEM. SOC. A, P3038, 1971
- 325 72 200 MCKINLEY IR WEIGEL H
MASS SPECTROMETRY OF CYCLIC PHENYLBORONATES OF DIOLS AND POLYOLS
J. CHEM. SOC., CHEM. COMMUN., P1051, 1972
- 325 72 201 MCLAUGHLIN E ROZETT RW
THE MONOISOTOPIC MASS SPECTRA OF BORANE DERIVATIVES
J. PHYS. CHEM., 76, 1860, 1972
- 325 72 202 MCMAHON E CLARKE JKA
EXCHANGE OF NORBORNANE WITH DEUTERIUM ON A PALLADIUM SURFACE
TETRAHEDRON LHS, P1413, 1971
- 325 72 203 MEIER H VOIGT E
BILDUNG UND FRAGMENTIERUNG VON CYCLOALKENO-1,2,3-SELENADIAZOLEN
TETRAHEDRON, 28, 187, 1972
- 325 72 204 MEINEMA HA NOLTES JG
INVESTIGATIONS ON ORGANODANTIMONY COMPOUNDS. 6. PREPARATION AND PROPERTIES OF THERMALLY STABLE DIALKYLANTIMONY(V) COMPOUNDS OF TYPES R2SB(OR)3, R2SB(OAC)3, AND R2SB(O)OH
J. ORGANOMET. CHEM., 36, 313, 1972
- 325 72 205 MEINWALD J YOUNG JW
PHOTOCHEMICAL REACTIONS OF 1,8-DIVINYLNAPHTHALENE AND 1,8-DISTYRYLNAPHTHALENE
JACS, 93, 725, 1971
- 325 72 206 MELLER A OSSKO A
REACTIONS OF AMINOBORANES AND HYDRAZINOBORANES WITH CARBONYL AND THIOCARBONYL COMPOUNDS
MONATSH. CHEM., 103, 577, 1972
- 325 72 207 MIYAMURA I MATSUDAIRA T WATANABE M ONCHI M
ON THE PATTERN COEFFICIENT OF HYDROGEN SELENIDE
MASS SPECTRY, JAPAN, 20, 163, 1972 IN JAPANESE
- 325 72 208 MOCK WL
2,3,4-TRICHLOROPENTACYCLO(6.4.0.0(2,4).0(3,10).0(5,9))DODECA-6,11-DIENE
JACS, 94, 2015, 1972
- 325 72 209 MOLINELLI R
REACTIONS OF DIBORANE WITH ORGANIC ISOCYANATES AND ISOTHIOCYANATES
J. CHEM. SOC., DALTON TRANS., P1363, 1972
- 325 72 210 MOON MW
SYNTHESIS AND PROPERTIES OF PHOSGENE PHENYLHYDRAZONED
J. ORG. CHEM., 37, 2005, 1972
- 325 72 211 MOSS RA LUCHTER KM (1)
1. ACETYLTATION OF BUTANE 2-DIAZOTATE. MECHANISM OF DECOMPOSITION OF AN ALKYL DIAZO ESTER. 2. ABSENCE OF SYNERGISM IN THE ADDITION OF DICHLOROCARBENE TO CERTAIN OXYGEN-FUNCTIONALIZED CYCLOHEXENES
J. ORG. CHEM., 37, 1155, 1972 AND JACS, 94, 6004, 1972
- 325 72 212 MULVANEY JE SAVAGE D
RING-OPENING REACTIONS OF TRIPHENYLCYCLOPROPYLLITHIUM COMPOUNDS
J. ORG. CHEM., 36, 2592, 1971
- 325 72 213 MURRAY RW HAGEN R
OZONOLYSIS OF CIS AND TRANS-DIISOPROPYLETHYLENE IN THE PRESENCE OF O(18)-LABELED ISOBUTYRALDEHYDE
J. ORG. CHEM., 36, 1103, 1971
- 325 72 214 NEISS MA
STUDIES OF THE PHOTODECOMPOSITION OF BORAZINE AND THE PHOTOCHEMICAL REACTIONS OF BORAZINE WITH AMMONIA, METHYL BROMIDE, AND METHYLAMINES
THESIS, CORNELL UNIV., ITHACA, NEW YORK, UNIV. MICROFILMS ORDER NO. 72-18,565. DISS. ABS., 328, 12, PT. 1, 6957, 1972
- 325 72 215 NEISS MA PORTER RF
1. PHOTOCHEMISTRY OF BORAZINE. EVIDENCE FOR A BORAZINE INTERMEDIATE. 2. PHOTOCHEMICAL REACTIONS OF BORAZINE WITH AMMONIA AND METHYL BROMIDE
JACS, 94, 1438, 1972 AND J. PHYS. CHEM., 76, 2630, 1972
- 325 72 216 NIECKE D
2,4,6,6-PENTAFLUOR-1,3,5,2,4,6-TRIAZAPHOSPHOR(V)INYL-(2)-AMINE UND HYDRAZINE (PENTAFLUORCYCLOTRIPHOSPHAZOAMINE UND HYDRAZINE)
CHEM. BER., 104, 3729, 1971
- 325 72 217 NOBLE B
PYROLYSIS OF 1,1-DIFLUOROETHANE
J. PHYS. CHEM., 76, 1680, 1972
- 325 72 218 NORRIS WP
REACTIONS OF TETRAKIS(DIMETHYLAMINO)ETHYLENE WITH WEAK ACIDS
TETRAHEDRON, 28, 1965, 1972
- 325 72 219 NOVIKOVA ZS MASHOSHI SN SAPOZHNI TA
TRIMETHYLSILYLDIETHYLPHOSPHITE REACTION WITH CARBONYL COMPOUNDS
ZH. OORG. KHIM., 41, 2622, 1971 IN RUSSIAN

- 325 72 220 OGDEN PH
CYCLISATION VIA FLUORIDE ION INDUCED ISOMERISATIONS: A ROUTE TO SOME NOVEL PERFLUOROMETEROCYCLIC
COMPOUNDS
J. CHEM. SOC. C, P2920, 1971
- 325 72 221 ORLOV VY GUSELNIK LE NAMETKIN NS
MASS SPECTRA OF METHYLSUBSTITUTED MONOSILA AND MONOGERMACYCLOBUTANES. 1,2-DISILA AND 1,2-
DIGERMACYCLOPENTANES. SOME CORRELATIONS WITH THERMAL DECOMPOSITION
ORG. MASS SPECTRY, 6, 309, 1972
- 325 72 222 PAINE RT PARRY RW
ACID ASSISTED BASE DISPLACEMENT REACTIONS. PREPARATION OF HALODIFLUOROPHOSPHINE AND
CARBONYLTRIBORANE(7) COMPLEXES
INORG. CHEM., 11, 268, 1972, 19 REFERENCES
- 325 72 223 PALETA O PROCHAZKOVA Z
1. ADDITION REACTIONS OF HALOOLEFINS. IX. REACTIVITY OF THE TRIFLUOROVINYL GROUP IN SYM-TRIAZINES.
2. SYNTHESIS OF SOME FLUOROALKYL-SYM-TRIAZINES
COLLECT. CZECH. CHEM. COMMUN., 35, 3320 AND 3452, 1972
- 325 72 224 PASTO DJ
MEASUREMENT OF THE KINETICS AND ACTIVATION PARAMETERS FOR THE HYDROBORATION OF TETRAMETHYLETHYLENE
AND MEASUREMENT OF ISOTOPE EFFECTS IN THE HYDROBORATION OF ALKENES
JACS, 94, 6083, 1972
- 325 72 225 PATRICK TB
A COMPARATIVE STUDY OF SOME REACTIONS OF DIMETHYLVINYLDENE AND DIMETHYLMETHYLDENE
J. ORG. CHEM., 37, 1553, 1972
- 325 72 226 PELTER A SHARROCK DN
NEW METHOD FOR PREPARATION OF MIXED ORGANOBORANES
J. CHEM. SOC., CHEM. COMMUN., P566, 1972
- 325 72 227 PENNEY GJ SHELDRICK GM
PREPARATION AND MOLECULAR STRUCTURE OF A NEW ISOMER OF P4S3I2: 3,5-DIODO-2,6,7-TRITHIA-1,3,4,5-
TETRAPHOSPHABICYCLO(2,2,1)HEPTANE
J. CHEM. SOC. A, P1100, 1971
- 325 72 228 PERIE JJ
REACTION D'AMINOMERCURATION. 7. HETEROCYCLISATION INTRAMOLECULAIRE D'AMINES ETHYLENIQUES: ETUDE DES
DIFFERENTS PARAMETRES
TETRAHEDRON, 28, 675, 1972 IN FRENCH
- 325 72 229 PERKINS WC WADSWORTH DM
REDUCTION OF 2,3-DIPHENYLCYCLOPROPENONE AND TROPONE WITH AMINE-BORANES
J. ORG. CHEM., 37, 800, 1972
- 325 72 230 PETROV ML KUPIN BS PETROV AA
1. REACTION OF NORMAL ALKYLACETYLENE THIOETHERS WITH AMINES. 2. ISOALKYLACETYLENE SULFIDE REACTIONS
WITH AMINES
ZH. ORG. KHIM., 7, 1113 AND 1120, 1971 IN RUSSIAN
- 325 72 231 PFEFFER PE OSMAN SF
NMR STUDIES OF CIS AND TRANS-2,3-DIMETHYLCYCLOALKANONES
J. ORG. CHEM., 37, 2425, 1972
- 325 72 232 PICCARDI P
REACTIONS OF 3,3,4,4-TETRAFLUOROPENTANE-1,5-DIOLS. 1. CYCLOADDITIONS WITH DICHLORODIFLUOROETHYLENE AND
CHLOROTRIFLUOROETHYLENE. 2. CYCLISATION TO A FOUR MEMBERED RING IN THE THERMAL ADDITION OF
PENTAFLUOROETHANE
J. CHEM. SOC. C, P3894 AND P3959, 1971
- 325 72 233 PICCARDI P
PEROXIDE INITIATED ADDITION OF 1,1-DIBROMOTETRAFLUOROETHANE TO ETHYLENE, PROPENE, AND
2-METHYLPROPENE
J. CHEM. SOC., PERKIN TRANS., 1, P1146, 1972
- 325 72 234 PINKERTON AA CAVELL RG
1. SYNTHESIS AND CHARACTERIZATION OF BIS(TRIFLUOROMETHYL)-THIOPHOSPHORYL- -
THIO-BIS(TRIFLUOROMETHYL)PHOSPHINE AND DI(BIS(TRIFLUOROMETHYL)THIOPHOSPHORYL) DISULFIDE. 2.
SYNTHESIS AND CHARACTERIZATION OF BIS(TRIFLUOROMETHYL)THIOPHOSPHINIC ACID AND ITS ANHYDRIDE
JACS, 93, 2384, 1971 AND 94, 1870, 1972
- 325 72 235 PINSON JW FOSTER AJ KHANDELWAL JK
MASS SPECTRUM OF NATURALLY ABUNDANT TRIGERMANE
SPECTROSC. LTRS, 5, 95, 1972
- 325 72 236 PIENINGER H HEUCK CC
UBER DIE UMSETZUNG VON BICYCLOHEPTEN DERIVATEN MIT SCHWEFELKOHLENSTOFF UNTER HOHEM DRUCK. 3. UBER
HOCHDRUCKVERSUCHE
TETRAHEDRON, 28, 73, 1972
- 325 72 237 PLOTNIKOV VF PETROV ML BOGOLYUB GM
ORGANIC DERIVATIVES OF GROUP-V-VII ELEMENTS. 22. CHARACTERISTICS OF MASS SPECTRA OF PHENYLACETYLENE
SULFIDES BONDED WITH A NATURAL SUBSTITUTION IN AROMATIC RING
ZH. ORG. KHIM., 8, 967, 1972
- 325 72 238 PONDER BW WHEAT PW
ADDITION OF NITROSYL CHLORIDE TO SOME STRAINED BICYCLIC OLEFINS
J. ORG. CHEM., 37, 543, 1972
- 325 72 239 POUTSMA ML IBARBIA PA
ELECTROPHILIC ADDITIONS TO 2-METHYL-1-(TETRAMETHYLCYCLOPROPYLDENE)PROPENE. GENERATION OF
CYCLOPROPYLIDENECARBINYL CATIONS
JACS, 93, 440, 1971
- 325 72 240 PRATT JR PINKERTON FH THAMES SF
ORGANOSILICON COMPOUNDS. 14. CLEAVAGE OF 2-(TRIMETHYLSILYL) AND 2-(TRIMETHYLSTANNYL)-1-METHYLPYRROLE
AND THIOPHENE WITH SOME CARBONYL CONTAINING REAGENTS
J. ORGANOMET. CHEM., 38, 29, 1972

- 325 72 241 PRINCE SR
THE REACTION OF BORON HYDRIDES WITH SMALL CARBON SPECIES (CARBORANES, INFRARED, B(11), AND H(1) NMR, AND MASS SPECTRAL DATA)
THESIS, INDIANA UNIV., BLOOMINGTON, UNIV. MICROFILMS ORDER NO. 71-17,453, DISS. ABS., 328, 1, 147, 1971
- 325 72 242 RANKIN DMH
1. PREPARATION AND PROPERTIES OF AMINODIFLUOROPHOSPHINE. 2. PREPARATION, SPECTROSCOPIC PROPERTIES, AND MOLECULAR STRUCTURE, DETERMINED BY ELECTRON DIFFRACTION, OF BIS(DIFLUOROPHOSPHINO)CARBODIIMIDE, F₂P₂N:C:N₂PF₂
J. CHEM. SOC. A, P783, 1971 AND J. CHEM. SOC., DALTON TRANS., P869, 1972
- 325 72 243 RATHKE J SCHAEFFER R
REARRANGEMENT OF DIMETHYLCHLOROMETHYLBORANE WITH NUCLEOPHILES
INORG. CHEM., 11, 1150, 1972
- 325 72 244 RAZUMOV AI MOSKAVA VV NAZVANOV GF
SUBSTITUTED VINYLPHOSPHONIC ACID DERIVATIVES. 2. DEUTERATED SUBSTITUTED VINYLPHOSPHONATES
ZH. OBSHCH. KHIM., 42, 51, 1972
- 325 72 245 REEVE W REICHEL DM
DEHYDRATION OF 3,4-DIMETHYL-3,4-HEXANEDIOL TO THE SIX POSSIBLE C₈H₁₄ DIENES AND PROOF OF STRUCTURE OF THE SUBSTITUTED BUTADIENES
J. ORG. CHEM., 37, 68, 1972
- 325 72 246 REEVES WP STROEBEL GG
REACTION OF 1,2-CYCLONONADIENE WITH PERACETIC ACID
TETRAHEDRON LETS, P2945, 1971
- 325 72 247 REID DH
STUDIES OF HETEROCYCLIC COMPOUNDS. 10. 6A-SELENATHIOPHTHENS
J. CHEM. SOC. C, P3107, 1971
- 325 72 248 RICKE RD
BENZOCYCLOBUTENE RADICAL ANION
JACS, 93, 697, 1971
- 325 72 249 RIETZ RR SCHAEFFER R SNEDDON LG
RADICAL REARRANGEMENTS OF OCTABORANE(12), OCTABORANE(18), AND 2-(2'-PENTABORAN(9)YL)PENTABORANE(9)
INORG. CHEM., 11, 1242, 1972
- 325 72 250 ROARK DN PEDDLE GJD
REACTIONS OF 7,8-DISILABICYCLO(2.2.2)OCTA-2,5-DIENES. EVIDENCE FOR THE TRANSIENT EXISTENCE OF A DISILENE
JACS, 94, 5837, 1972
- 325 72 251 ROSARIO MD GOYA AE GILJE JW
FRAGMENTATION OF SOME HYDRAZINO AND HYDROXYLAMINOMALOPHOSPHINES UNDER ELECTRON IMPACT
SPECTROSC. LETS, 4, 385, 1971
- 325 72 252 SAFE S
SPORIDESMINS. 11. REACTION OF TRIPHENYLPHOSPHINE WITH EPIPOLYTHIODIOXOPIPERAZINES
J. CHEM. SOC. C, P1189, 1971
- 325 72 253 SAID EZ TIPPING AE
ORGANOHALOGEN COMPOUNDS. 1. PREPARATION OF 1,4-DIBROMO-2,3-DIMETHYLBUTA-1,3-DIENE AND 1-BROMO-4-CHLORO-2,3-DIMETHYLBUTA-1,3-DIENE. 2. REACTIONS OF 2,3-DIMETHYLBUTE-1,3-DIENE WITH CHLORINE AND WITH IODINE MONOCHLORIDE
J. CHEM. SOC., PERKIN TRANS., 1, P1399 AND P1986, 1972
- 325 72 254 SAKAI M CHILDS RF WINSTEIN S
REACTION OF DILITHIUMCYCLOOCTATERAENIDE WITH PHOSGENE. PREPARATION OF BICYCLO(4.2.1)NONA-2,4,7-TRIEN-9-ONE
J. ORG. CHEM., 37, 2517, 1972
- 325 72 255 SAKURAI M KIRA M SATO T
1. SYNTHESIS AND PHOTOCHEMISTRY OF 1,2,3-TRISILACYCLOHEPTANE DERIVATIVES. PRECURSORS FOR TAILOR-MADE ORGANSILYLENES. 2. SUBSTITUENTS EFFECT ON MASS SPECTRA OF PHENYLPENANEIMULSILANES
JACS, 93, 5272, 1971 AND J. ORGANOMET. CHEM., 42, NO. 1, C24, 1972
- 325 72 256 SASAKI T EGUCHI S (1) KIRIYAMA T (1) KIJIMA A (2)
1. STUDIES OF HETERO-CAGE COMPOUNDS. II. PK(SUB ALPHA) STUDIES ON 3,10-DIAZABICYCLO(4.3.1)DECANE SYSTEM. 2. CHEMISTRY OF CYANOACETYLENES. X. FURTHER STUDIES ON THE REACTIONS OF CYANOYMINES WITH HYDROGEN HALIDES AND BROMINE
BULL. CHEM. SOC. JAPAN, 44, 3410, 1971 AND J. CHEM. SOC. C, P3056, 1971
- 325 72 257 SATO T
MEDIUM SIZED CYCLOPHANES. 11. (2.1.1)METACYCLOPHANE
BULL. CHEM. SOC. JAPAN, 43, 3632, 1970
- 325 72 258 SCHERER H
CARBENE. 5. 7-PHOSPHONO-7-ARYLNORCARADIENE
CHEM. BER., 105, 3357, 1972 IN GERMAN
- 325 72 259 SCHLOSSER M HEINZ G
1. FLUORCHLOROCYCLOPROPANE, IHRE DARSTELLUNG UND ABWANDLUNG. 2. MONOFLUORCARBON
CHEM. BER., 104, 1921 AND 1934, 1971
- 325 72 260 SCHMIDBAUR H VORNBERGER W
DIE ORGANOSILICIUMCHEMIE DER PHOSPHORYLIDE. 16. SI-SI-STRUKTUREINHEITEN ALS CARBANION SUBSTITUENTEN IN YLIDEN
CHEM. BER., 105, 3173, 1972
- 325 72 261 SCHOLL RL
PART 1. SILICON-29 NMR OF ORGANSILICON COMPOUNDS. PART 2. INFLUENCE OF THE GROUP-IV ELEMENTS ON SPECTRAL PROPERTIES OF 2-SUBSTITUTED PYRIDINES
THESIS, UNIV. OF CALIFORNIA, BERKELEY, UNIV. MICROFILMS ORDER NO. 72-17,933, DISS. ABS., 328, 12, PT. 1, 6959, 1972

- 325 72 262 SCHRADER L
SAUREKATALYSIERTE UMLAGERUNG VON 1,2-BISMETHOXYCARBONYLCYCLOPROPENEN
TETRAHEDRON LTRS. P2993, 1971
- 325 72 263 SCHWARTZ LD KELLER PC
REACTION OF SUBSTITUTED LITHIUM AMIDES WITH DIBORANE
JACS. 94, 3015, 1972
- 325 72 264 SCOTT DW
TETRAETHYLEAD. VIBRATIONAL ASSIGNMENT AND CHEMICAL THERMODYNAMIC PROPERTIES
J. CHEM. THERMODYN., 4, 99, 1972
- 325 72 265 SHAKAA H
PHOTO AND RADIATION CHEMICAL REACTIONS OF DIPHENYLMETHYLENETRIPHENYLPHOSPHORANES
NP-19352, THESIS. BOCHUM UNIV., WEST GERMANY, 1971, 104P IN GERMAN, NTIS
- 325 72 266 SHIRAFUJ T YAMAMOTO Y NOZAKI H
OXIDATIVE RING CLEAVAGE OF 1,3,3-TRIMETHYLCYCLOPROPENE BY TRANSITION METAL ACETATES
TETRAHEDRON LTRS. P4713, 1971
- 325 72 267 SHUIE CY CLAPP LB
REACTION OF NITROSYL CHLORIDE WITH ETHYLIDENECYCLOALKANES. A REEXAMINATION
J. ORG. CHEM., 36, 1169, 1971
- 325 72 268 SIEBERT W OSPICI A
METHYLSELENOBORANE
CHEM. BER., 105, 454, 1972 IN GERMAN
- 325 72 269 SKELL PS OWEN PW
1. REACTIONS OF METASTABLE SINGLET CARBON ATOMS WITH UNSATURATED HYDROCARBONS. 2. REACTIONS OF
CARBON VAPOR CONSTITUENTS WITH TRIMETHYLSILANE
JACS. 93, 2699, 1971 AND 94, 1578, 1972
- 325 72 270 SMITH AB AGOSTA WC
PHOTOCHEMISTRY OF 6-PROPYL-2-CYCLOHEXENONE
J. ORG. CHEM., 37, 1259, 1972
- 325 72 271 SOLAN D BURG AB
COCONDENSATION REACTION OF DIFLUOROSILENE WITH DIBORANE: NEW POLYFLUOROPOLYSILANES
AD-730 752, UNIV. OF SOUTHERN CALIF., LOS ANGELES, DEPT. OF CHEMISTRY, 27P
- 325 72 272 SPECKAMP WN
SYNTHESIS OF SUBSTITUTED 3-AZA-BICYCLO(3.3.1)NONANES
TETRAHEDRON, 27, 3143, 1971
- 325 72 273 STAFFORD FE
REACTIVE INTERMEDIATES AND MOLECULAR BEAM MASS SPECTRA OF BORANES
BULL. SOC. CHIM. BELGES, 81, 81, 1972
- 325 72 274 STEFANI A CONSIGLIO G (1) PINO P (2)
1. REACTION OF TRIBENZYLALUMINIUM WITH ACETYLENE. 2. FORMATION AND REACTIVITY OF 1,3-DIALUMINIUM
ALKANES
HELV. CHIM. ACTA, 55, 117 AND 1190, 1972
- 325 72 275 STERNSON LA COVIELLO DA
PREPARATION OF 2-ALKOXYIMINO ALDEHYDES AND KETONES BY THE OXICATION OF ALKOXYIMINOALKANES WITH
SELENIUM DIOXIDE
J. ORG. CHEM., 37, 159, 1972
- 325 72 276 STILLE JK HUGHES RD (1) JANNES KN (2)
1. ADDITIONS OF PROTONIC ACIDS TO 2,3-DIDEUTERIOMORBORNENE. EVIDENCE FOR THE EXISTENCE OF A
CLASSICAL MORBORNYL CATION. 2. ALLYL-CARBINYL-CYCLOPROPYL-CARBINYL MORBORNENYL-NORTRICYCLYL ANION
REARRANGEMENT. EVIDENCE FOR A SYMMETRICAL INTERMEDIATE
J. ORG. CHEM., 36, 340, 1971 AND JACS, 94, 8494, 1972
- 325 72 277 STOCKBURGER L HEICKLEN J
REACTION OF OXYGEN ATOMS WITH 1,3-PERFLUOROBUTADIENE
JACS, 93, 3331, 1971
- 325 72 278 STOKR J PIVOCOVA H SCHNEIDER B
CONFORMATIONAL STRUCTURE AND VIBRATIONAL AND NMR SPECTRA OF SIMPLE MONOALKYLBENZENES
J. MOL. STRUCT., 12, 45, 1972
- 325 72 279 STORR A PENLAND AD (1) THOMAS BS (2)
1. CYCLOGALLAZANES. II. EFFECT OF R-GROUP ON RING SIZE OF (RNHGAH2)(SUB N) COMPOUNDS. 2. CYCLIC
IMINO DERIVATIVES OF ALUMINIUM, GALLIUM, AND INDIUM DIALKYL
J. CHEM. SOC. A, P1237 AND P3850, 1971
- 325 72 280 STROBACH DR BOSWELL GA
SYNTHESIS OF 1-FLUOROCYCLOALKENES
J. ORG. CHEM., 36, 818, 1971
- 325 72 281 SUTHERLAND DR TENNANT G
CHEMISTRY OF POLYAZAHETEROCYCLIC COMPOUNDS. 5. SYNTHESIS AND REACTIVITY OF THE V-TRIAZOLO(3,4-
A)PYRIMIDINE RING SYSTEM
J. CHEM. SOC. C, P2156, 1971
- 325 72 282 SUZUKI A
REACTION OF ORGANOBORANES WITH ALPHA-LITHIUM FURAN. CONVENIENT SYNTHESIS OF 4,4-
DIALKYL-CIS-2-BUTEN-1,4-DIOLS FROM OLEFINS VIA HYDROBORATION
TETRAHEDRON, 27, 2775, 1971
- 325 72 283 TAGER HS CHRISTEN HN
2-AMINOMORBORNANE-2-CARBOXYLIC ACID. PREPARATION, PROPERTIES, AND IDENTIFICATION OF FOUR ISOMERS
JACS, 94, 968, 1972
- 325 72 284 TANAKA R MILLER SI
NUCLEOPHILIC SUBSTITUTION AT AN ACETYLENIC CARBON. 1. COMPETING PROCESSES IN THE REACTIONS OF SODIUM
METHOXIDE WITH PHENYLBROMOACETYLENE OR PHENYLCHLOROACETYLENE IN METHANOL. 2.
1-ALKOXY-2-PHENYLACETYLENES FROM 1-CHLORO-2-PHENYLACETYLENE
TETRAHEDRON, 27, 2651, 1971 AND TETRAHEDRON LTRS. P1753, 1971

- 325 72 285 TAYLOR DR
ALLENE CYCLOADDITIONS. 3. SYNTHESIS OF ALKYLIDENECYCLOBUTENES
J. CHEM. SOC., PERKIN TRANS., I, P1365, 1972
- 325 72 286 THAKORE AN
STUDIES IN ORGANOPHOSPHORUS CHEMISTRY REACTION OF EPOXIDES WITH TERTIARY PHOSPHINE DIHALIDES
TETRAHEDRON, 27, 2617, 1971
- 325 72 287 THOMPSON JC MARGRAVE JL
SILICON-FLUORINE CHEMISTRY. 6. REACTION OF SILICON DIFLUORIDE WITH BUTADIENE
INORG. CHEM., 11, 913, 1972
- 325 72 288 TODD LJ BEER DG
SIGMA-BONDED COMPLEXES OF SUBSTITUTED PHOSPHORUS AND ARSACARBORANES AND THEIR PI-ALLYL DERIVATIVES
AD-735 926. INDIANA UNIV., BLOOMINGTON, DEPT. OF CHEMISTRY, 28P
- 325 72 289 TOU JC WANG CS
MASS SPECTROMETRIC AND PYROLYTIC STUDIES OF DIPHENYLARSINE DERIVATIVES
J. ORGANOMET. CHEM., 34, 141, 1972
- 325 72 290 TRAHANOVSKY WS ROBBINS MD
OXIDATION OF ORGANIC COMPOUNDS WITH CERIUM(IV). 14. FORMATION OF ALPHA-AZIDO-BETA-NITRATOALKANES
FROM OLEFINS, SODIUM AZIDE, AND CERIC AMMONIUM NITRATE
JACS, 93, 5256, 1971
- 325 72 291 TSU-TZU-TSAI MARSHALL CJ
SYNTHESIS OF 1-AZA-2-SILACYCLOPENTANE COMPOUNDS
J. ORG. CHEM., 37, 596, 1972
- 325 72 292 TULLOCH CD KEMP W
SYNTHESIS AND PHOTOCHEMISTRY OF 2,2'-DISTYRYLBIPHENYL AND 2,2'-BIS-(4-PHENYLBUTA-1,3-DIENYL)BIPHENYL
J. CHEM. SOC. C, P2824, 1971
- 325 72 293 ULLENUS C FORD PW BALDWIN JE
STERESELECTIVE AND STEREOSPECIFIC THERMAL ISOMERIZATION OF TRANS-1,2-DI(PROP-1'-ENYL)CYCLOPROPANES
JACS, 94, 5910, 1972
- 325 72 294 UNGEFUG GA
REACTION OF DODECABROMOPENTACYCLO(5.3.0.0(2.6).0(3.9).0(4.8))DECANE WITH SODIUM METHOXIDE
J. ORG. CHEM., 36, 352, 1971
- 325 72 295 VAN DER MA FP STEINBER H DE BOER TJ
CHEMISTRY OF SMALL RING COMPOUNDS. 15. KINETICS OF CANNIZZARO REACTION OF CYCLOPROPANECARBALDEHYDE
REC. TRAV. CHIM., 91, 221, 1972
- 325 72 296 VAN DER WIELEN AJ RING MA
1. REACTION OF BORON TRIHALIDES WITH SILANES. 2. AN EXAMINATION OF THE CHLORINATION OF SILANES BY
SILVER CHLORIDE
INORG. NUCL. CHEM. LTRS, 8, 421, 1972 AND INORG. CHEM., 11, 246, 1972, 21 REFERENCES, AD-745 504,
1971
- 325 72 297 VAN DYKE CH KIFER EW GIBSON GA
PREPARATION AND CHARACTERIZATION OF SILYLGERMETHANE AND SOME OF ITS INORGANIC DERIVATIVES
INORG. CHEM., 11, 408, 1972, 28 REFERENCES
- 325 72 298 VENEZKY DL SINK CW NEVETT BA

PREPARATION, PROPERTIES, AND STRUCTURE OF POLY(TRIPHENYLSIBINE OXIDE)
J. ORGANOMET. CHEM., 35, 131, 1972
- 325 72 299 VERDONCK L VAN DER KE GP
BENZYL COMPOUNDS. 5. FAR INFRARED AND RAMAN SPECTRA OF PARA-SUBSTITUTED BENZYLITIN COMPOUNDS
J. ORGANOMET. CHEM., 40, 135, 1972
- 325 72 300 VILDAVSK AI RALL KB PETROV AA
PREPARATION AND CHEMICAL PROPERTIES OF SILICON NITROALKENYNE AND GERMANIUM NITROALKENYNE
ZH. OBSSHCH. KHIM., 41, 1279, 1971 IN RUSSIAN
- 325 72 301 VORONKOV MG
INTERACTION OF SULFUR WITH ORGANIC COMPOUNDS. 21. INFLUENCE OF SULFUR ON 2-THIENYLCHLOROMETHANE AND
DI-2-THIENYLSULFIDE
KHIM. GETEROT. SOEDIN., P1183, 1970 IN RUSSIAN
- 325 72 302 WAITE NE
REACTIONS OF PHOSPHINES WITH ACETYLENES. 14. ISOMERIC 1:2 ADDUCTS FROM TRIARYLPHOSPHINES AND
DIMETHYLACETYLENEDICARBOXYLATE, A CYCLOPENTENYLIDENEPHOSPHORANE
J. CHEM. SOC. C, P1620, 1971
- 325 72 303 WAJER TA DE BOER TJ
C-NITROSO COMPOUNDS. 23. CIS/TRANS-ISOMERIZATION OF ALIPHATIC AZODIOXY COMPOUNDS (DIMERIC
NITROSOALKANES)
REC. TRAV. CHIM., 91, 656, 1972
- 325 72 304 WALMSLEY DE BUDDE WL HAWTHORNE MP
NUCLEOPHILIC SUBSTITUTION AT TETRAHEDRAL BORON. TRIMETHYLAMINE-ALKYL AND ARYLBORANE SUBSTRATES
JACS, 93, 3150, 1971
- 325 72 305 WANG CS SHREEVE JM
PREPARATION AND SPECTRAL STUDIES OF DIMETHYLCHLOROTIN CARBOXYLATES
J. ORGANOMET. CHEM., 38, 287, 1972
- 325 72 306 WARREN HS
ALLERGENIC PROPERTIES OF STYRENE-DIVINYL BENZENE COPOLYMERS
ORNL-TIP/TIRC-72-16. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN., AUGUST 1972, 3P. NTIS
- 325 72 307 WARWEL S SCHMITT G ASINGER F
REAKTIONEN VON ALUMINIUMALKYLEN MIT CARBONYL-VERBINDUNGEN. 2. HYDROALUMINIERUNG VON
ALDOENOLESTERN-EINE NEUE 1,3-DIOLSYNTHESE
J. ORGANOMET. CHEM., 36, 243, 1972

- 325 72 308 WEBER WP FELIX RA WILLARD AK
1. METHYL GAMMA-TRIMETHYLSILYL CROTONATE. 2. MASS SPECTROSCOPY OF ORGANOSILICON COMPOUNDS. EXAMPLES OF INTERACTION OF THE SILYL CENTER WITH REMOTE PHENYL GROUPS. 3. TRANSANNULAR INTERACTIONS OF SILYL CENTER WITH DISTANT KETO GROUPS IN MASS SPECTRA OF MEDIUM SIZED ORGANOSILICON HETEROCYCLES. IMPROVED SYNTHETIC ROUTES TO SIX, SEVEN, AND EIGHT MEMBERED SILICON RINGS
TETRAHEDRON LETRS. P1445, 1971 AND J. ORG. CHEM., 36, 1620 AND 4060, 1971
- 325 72 309 WEIDENBRUCH M WESSAL N
1. REAKTIONEN VON METHYLCHLORIDISILANEN MIT PENTAFLUORPHENYL LITHIUM. 2. PENTAFLUORPHENYLVERBINDUNGEN DES SILICIUMS UND GERMANIUMS
CHEM. BER., 104, 2124, 1971 AND 105, 173, 1972
- 325 72 310 WEIGERT FJ MAHLER W
1. NMR SPECTROSCOPY. CONFORMATIONAL EQUILIBRIA AND RATES OF CONFORMATIONAL INTERCONVERSION OF HALOGENATED ETHANES. 2. NMR PARAMETERS OF THE INDIVIDUAL FLUORINES OF THE TRIFLUOROMETHYL GROUP
JACS, 92, 7359, 1970 AND 94, 5314, 1972
- 325 72 311 WEST R GORNOWICZ GA (1) INDRIKSONS A (2)
1. POLYLITHIUM COMPOUNDS. V. POLYLITHIUM COMPOUNDS FROM PHENYLPROPYNES AND THEIR POLYSILICON DERIVATIVES. 2. CYCLIC POLYSILANES. VI. BICYCLIC AND CAGE PERMETHYLCYCLOPOLYSILANES
JACS, 93, 1720, 1971 AND 94, 6110, 1972
- 325 72 312 WEYLER W
CYCLOADDITION OF TERT-BUTYL CYANIDE TO 1,2-CYCLONONADIENE AND CIS AND TRANS-CYCLODOCTENE
JACS, 94, 1027, 1972
- 325 72 313 WHITTEN DG BERNGRUBER W
EXCITED STATE AND CYCLOBUTADIENE INTERMEDIATES IN THE RADIATION CHEMISTRY OF ALKYNES. GAMMA RADIOLYSIS OF 2-BUTYNE
JACS, 93, 3204, 1971
- 325 72 314 WIERGB KB BURGMAYER GJ (2) VEITH M (3) SCHWENK G (4) UHLENBROCK W (5)
1. DELTA(1,4)-BICYCLO(2,2,0)HEXENE. 2. TRICYCLO(3,2,1,0(1,5))OCTANE. A 3,2,1-PROPELLANE. 3. DARSTELLUNG UND EINIGE EIGENSCHAFTEN VIERFACH SUBSTITUIERTER HYDRAZINE (ME3E)2N-N(EME3)2. (E = C, SI, GE, SN). 4. NOTIZ ZUR REAKTION VON BIS(TRIMETHYLSILYL)DIIMIN MIT KOHLENDIOXID. 5. DARSTELLUNG UND THERMOLYSE VON 1,1,4-TRIS(TRIMETHYLSILYL)TETRAZEN-(2)
JACS, 93, 246, 1971, 94, 7396, 1972. CHEM. BER., 104, 3176 AND 3986, 1971, AND 105, 63, 1972
- 325 72 315 WILT JW
1. REACTION OF 2-(DELTA(3)-CYCLOPENTENYL)ETHYL BROMIDE WITH TRI-N-BUTYL TIN HYDRIDE. CYCLIZATION TO NORBORANE. 2. THE TRANSANNULAR NEOPHYL REARRANGEMENT
J. ORG. CHEM., 35, 2803, 1970 AND 37, 425, 1972
- 325 72 316 WOLFSBERGER W
PHOSPHINIMINE-FLUORSILANE MIT TETRA UND PENTAKOORDINIERTEN SILICIUMATOMEN
CHEM. BER., 104, 1830, 1971
- 325 72 317 WOLINSKY J LOGIN RB
1. 1,2-DIBENZHYDRYLIDENECYCLOHEXANE. 2. A NOVEL ROUTE TO BICYCLO(2,2,2)OCTENETETRACARBOXYLIC ACID DIANHYDRIDES
J. ORG. CHEM., 36, 1164, 1971 AND 37, 121, 1972
- 325 72 318 WONG SM
ELECTROPHILIC SUBSTITUTION AT SATURATED CARBON. 47. CONDUCTED TOUR MECHANISMS AROUND THE CYANO GROUP
JACS, 93, 2235, 1971
- 325 72 319 WUDL F
DODECAMETHYLDICXA(1,1)DI-P-DISILINOCYCLOPHANE. A NOVEL ORGANOSILICON CYCLOPHANE
JACS, 93, 3160, 1971
- 325 72 320 YAMAJI Y NINOMIYA K MATSUDA H
THERMAL DECOMPOSITION OF ALKYL TIN HALOCARBOXYLATES AND REACTION BETWEEN ALKYL TIN OXIDES AND CARBOXYLIC ESTERS CONTAINING A HALOGEN ATOM
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., 74, 1181, 1971
- 325 72 321 YANOVSKAYA LA
SYNTHESIS AND PROPERTIES OF TRANS-1-ARYL-2-BENZOYLCYCLOPROPANES AND THEIR VINYLOGES
TETRAHEDRON, 28, 1565, 1972
- 325 72 322 YOSHIFUJI M
ALUMINUM CHLORIDE CATALYSED REACTIONS OF 1-ALKYL-3,5-DI-T-BUTYLBENZENES WITH PHOSPHORUS TRICHLORIDE. MIGRATION OF A T-BUTYL GROUP TO THE PHOSPHORUS ATOM
J. CHEM. SOC., PERKIN TRANS., 1, P559, 1972
- 325 72 323 YOUNG DAT
ALKYLALUMINUM AND ALKYL GALLIUM DERIVATIVES OF (3)-1,2-B9C2H13
JACS, 93, 5687, 1971
- 325 72 324 ZBIRAL E BAUER E
REAKTIONEN MIT PHOSPHORORGANISCHEN VERBINDUNGEN. 32. ZUR UMSETZUNG VON BETA-ACYLVINYLPHOSPHONIUMSALZEN MIT DIAZOVERBINDUNGEN
TETRAHEDRON, 28, 4189, 1972
- 325 72 325 ZIMMERMAN HE MCKELVEY RD (1) SOUSA LR (2)
1. ELECTRON AND ENERGY TRANSFER BETWEEN BICYCLO(2,2,2)OCTANE BRIDGEHEAD MOIETIES. 2. CYCLOHEPTATRIENYLDIAZOMETHANE. ITS SYNTHESIS AND BEHAVIOR. C8H8 CHEMISTRY. X. CORRELATION DIAGRAMS AND NODAL PROPERTIES
JACS, 93, 3638, 1971 AND 94, 834, 1972
- 325 72 326 ZINGARO RA
A REARRANGEMENT OF TETRAMETHYLDIARSINE DISULFIDE
JACS, 93, 5677, 1971
- 335 72 001 ABDULLAEV MK AYUKHANOY AK
NEGATIVE ION SPUTTERING OF SILVER BOMBARDED WITH CESIUM IONS
PP 26-30 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERCYKH TEL. ARIFOV, U.A. (ED.). IZDATEL' STVO FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN
- 335 72 002 ABRAMENKOV AD AZHAROVA VM FOGEL YM
USING METHOD OF SECONDARY ION-ION EMISSION TO STUDY PROCESSES INVOLVED IN INITIAL STAGE OF DEPOSITING A TITANIUM COATING ON MOLYBDENUM
PHYS. METALS METALLOGR. USSR (ENGL. TRANS.), 29, NO. 3, 72, 1970

- 335 72 003 AOYLOV AA VEKSLER VI REZNIK AM
1. IONIC COMPONENT OF CATHODE SPUTTERING DURING BOMBARDMENT OF TUNGSTEN BY ALKALI METAL IONS. 2. SECONDARY EMISSION OF W(+) IONS DURING BOMBARDMENT OF TUNGSTEN BY IONS OF ALKALI METALS. 3. EFFECT OF SURFACE MIGRATION OF NICKEL ATOMS ON THE IONIC COMPONENT OF CATHODE EMISSION FROM TUNGSTEN. 4. ION COMPONENT IN CATHODE SPUTTERING OF METALS
1. IZV. AKAD. NAUK UZB. SSR. SER. FIZ.-MAT. NAUK. NO. 6. 35. 1970 IN RUSSIAN. 2. DOKL. AKAD. NAUK UZB. SSR. NO. 12. 19. 1971 IN RUSSIAN. 3. SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13. 1651. 1972. TRANSLATED FROM FIZ. TVERD. TELA. 13. 1968. 1971. 4. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1588. 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41. 2005. 1971
- 335 72 004 ANTONIOU A AI B LACOSTE R
DIELECTRIQUES. EFFETS COMPARES DU BOMBARDEMENT IONIQUE ET DES DECHARGES PARTIELLES SUR DU POLYETHYLENE EN FEUILLE
COMPT. REND., SER. AB. 274. 955. 1972
- 335 72 005 ARIFOV UA ALIEV AA (1,3) KHADZHIMUKHA KK (2) YUNUSOV AI (2) TURMASCH E (3)
GRUICH DD (4)
1. ANGULAR DEPENDENCE OF ENERGY OF SECONDARY IONS ARISING FROM MOLYBDENUM SINGLE CRYSTAL. 2. CHANNELING OF LIGHT IONS IN MONOCRYSTALS OF W, MO, AND CU. 3. INFLUENCE OF LATTICE RADIATION DISTURBANCES CREATED BY ION BOMBARDMENT OF ANGLE AND ENERGY DISTRIBUTION OF DISSIPATED IONS. 4. CHANNELING OF LOW ENERGY IONS ON SINGLE CRYSTAL SURFACES
1. PP 56-64 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.). IZDATEL'STVO FAN UZBEKSKOI SSR, TASHKENT. 1970. 2. IZV. AKAD. NAUK UZB. SSR. SER. FIZ.-MAT. NAUK. NO. 3. 60. 1971. 3. RADIOTEKH. ELEKTRON., 17. 359. 1972. 4. RADIAT. EFF., 12/3. NO. 4. 181. 1972
- 335 72 006 ARMINEN E PONTELL A
SATURATION VALUES OF NOBLE GAS IONS IN POLYCRYSTALLINE C, AL, TI, AND CU BACKINGS IN THE KEV ENERGY REGION
ANN. ACAD. SCI. FENN., SER. A VI. NO. 357. 1-13. 1971
- 335 72 007 BEHRISCH R SCHERZER BM SCHULZE H
DECHANNELING OF PROTONS IN NIOBIUM SINGLE CRYSTALS
RADIAT. EFF., 13/1. 33. 1972
- 335 72 008 BELL J J FARNSWORTH HE
ION BOMBARDMENT INDUCED SURFACE DAMAGE IN TUNGSTEN AND MOLYBDENUM SINGLE CRYSTALS
J. VAC. SCI. TECHNOL., 9. 616. 1972
- 335 72 009 BLAISE G SLODZIAN G
EMISSION IONIQUE SECONDAIRE DES ELEMENTS DE TRANSITION EN SOLUTION DILUEE DANS DES ALLIAGES: INFLUENCE DES ETATS ELECTRONIQUES LOCALISES
COMPT. REND., SER. AB. 273. 357. 1971
- 335 72 010 BLANN M
HEAVY ION ACCELERATORS OF THE FUTURE
NUCL. INSTRUM. METHODS. 97. 1-17. 1971
- 335 72 011 DOETTIGER J DAVIES JA SIGMUND P WINTERBON KB
REFLECTION COEFFICIENT OF KEV HEAVY ION BEAMS FROM SOLID TARGETS
RADIAT. EFF., 11. NO. 2. 69. 1971
- 335 72 012 BORING JW
INTERACTIONS OF HEAVY KEV IONS WITH MATTER
ORO-2911-14. PROGRESS REPORT. VIRGINIA UNIV., CHARLOTTESVILLE, RESEARCH LABS. FOR THE ENGINEERING SCIENCES. JUNE 1972. 27P. AEEP-3930-109-72-U. NTIS
- 335 72 013 BRICE DK
1. DEPTH DISTRIBUTION OF ENERGY DEPOSITION BY A TO 40 KEV FE(+) INCIDENT OF FE. 2. SPATIAL DISTRIBUTION OF IONS INCIDENT ON A SOLID TARGET AS A FUNCTION OF INSTANTANEOUS ENERGY
1. RADIAT. EFF., 11. NO. 1. 51. 1971. 2. RADIAT. EFF., 11. NO. 3-4. 227. 1971. SC-RR-710599. SANDIA LABS., ALBUQUERQUE, NEW MEXICO. SEPT. 1971. 252P. NTIS
- 335 72 014 BROCHARD D SLODZIAN G
SECONDARY ION EMISSION OF COPPER-ALUMINUM ALLOYS IN OXYGEN ATMOSPHERE
J. PHYS. (PARIS), 32. 185. 1971 IN FRENCH
- 335 72 015 BRUSILOVSKII BA MOLCHANOV VA
DEPENDENCE OF THE ANISOTROPY OF THE SECONDARY ION-ELECTRON EMISSION COEFFICIENT UPON ION ENERGY
RADIAT. EFF., 8. 71. 1971
- 335 72 016 ERYCE P RICHARDS J KELLY JC
ELECTROSTATIC REFLECTION OF SPUTTERED IONS BY THE INCIDENT SPUTTERING BEAM
J. PHYS. C. 4. NO. 13. L263. 1971
- 335 72 017 CAMPBELL AB COOPER CB
1. MASS SPECTROMETRIC METHOD OF DETECTION OF NEGATIVE IONS FROM TARGET SURFACE DURING LOW ENERGY SPUTTERING. 2. MASS SPECTROMETRIC STUDY OF SPUTTERING OF KBr BY LOW ENERGY AR(+) AND Xe(+) IONS
J. PHYS. E. 4. 876. 1971 AND J. APPL. PHYS., 43. 863. 1972
- 335 72 018 CAYWOOD JM TOMBRELLO TA WEAVER TA
BACKSCATTERING FROM CRYSTALS USING MOLECULAR HYDROGEN IONS
PHYS. LETT. 37A. 350. 1971
- 335 72 019 CHIDA K KANEKO K IWATA K SAKAI M
SECONDARY ION EMISSION FROM METAL SURFACE IN COLLISIONS OF 30 KEV AR(+) IONS
SHITSURYO BUNSEKI (MASS SPECTRY, JAPAN). 19. 49. 1971 IN ENGLISH
- 335 72 020 COBURN JW KAY E
PLASMA DIAGNOSTICS OF AN RF-SPUTTERING GLOW DISCHARGE
APPL. PHYS. LETT. 18. 435. 1971
- 335 72 021 COWELL GK SMITH HP
MEASUREMENT OF SPUTTERED PARTICLE VELOCITY SPECTRA
J. APPL. PHYS., 43. 412. 1972
- 335 72 022 CZEGLÉDY S
APPLICATIONS OF THE CHANNELLING AND BLOCKING EFFECTS
ATOMTECH. TAJEK., 13. NO. 8. 473. 1970 IN HUNGARIAN

- 335 72 023 DAVIES JA
1. INTRODUCTION TO ION IMPLANTATION. 2. CHANNELING EFFECT TECHNIQUE FOR STUDING ATOMIC LOCATIONS WITHIN THE CRYSTAL LATTICE
PP 237-66 AND PP 267-95 OF PHYSICS OF IONIZED GASES. NAVINSEK, B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA. 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, MERCEGNOVI, YUGOSLAVIA. CONF-700706. 58 REFERENCES AND 30 REFERENCES
- 335 72 024 DE SALVO A ROSA R ZIGNANI F
COMPUTER STUDIES OF DECHANNELING EFFECTS ON ION IMPLANTATION PROFILES
LTRS NUOVO CIM., 2. 390. 1971
- 335 72 025 DOI H TAMURA H OMURA I KONDO T TAYA S
SECONDARY ION YIELDS IN A SPUTTERING MASS SPECTROMETER
PP 1089-93 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 335 72 026 ECKSTEIN W VERBEEK H
BACKSCATTERING OF HYDROGEN AND RARE GAS IONS FROM METAL SURFACES
J. VAC. SCI. TECHNOL., 9. 612. 1972
- 335 72 027 ELICH JJP ROOSENDAL HE ONDERDELINDEN D
1. COPPER SINGLE CRYSTAL SPUTTERING IN THE TEMPERATURE RANGE FROM 50 TO 600 DEGREES K. 2. PRECISION MEASUREMENTS ON ANGULAR AND TEMPERATURE DEPENDENCE OF SPUTTERING
RADIAT. EFF., 10. NO. 3. 175. 1971 AND 14. NO. 1/2. 93. 1972
- 335 72 028 FELDMAN C SATKIEWICZ FG
STUDY OF AMORPHOUS AND CRYSTALLINE SILICON THIN FILMS BY SPUTTER ION SOURCE MASS SPECTROMETRY
THIN SOLID FILMS. 12. 217. 1972
- 335 72 029 FELDMAN LC MURNICK DE
CHANNELING IN IRON AND LATTICE LOCATION OF IMPLANTED XENON
PHYS. REV., 58. 1. 1972
- 335 72 030 FINFGELD CR
PROTON SPUTTERING
ORO-3557-13. 6TH ANNUAL PROGRESS REPORT, JUNE 1971 - MARCH 1972. ROANOKE COLL., SALEM, VA., DEPT. OF PHYSICS. 8P. NTIS
- 335 72 031 FOGEL YM KOVAL AG
INTERACTION OF ATOMIC PARTICLES WITH SOLIDS
VESTN. AKADE. NAUK SSSR. NO. 10. 89. 1971
- 335 72 032 GRUICH DD KHAMIDOVA KM ERMAKOV GE ARIFOV UA
SECONDARY ION EMISSION FROM A TUNGSTEN-MOLYBDENUM ALLOY UNDER THE INFLUENCE OF SLOW IONS
PP 3-6 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.). IZDATEL' STVO FAN UZBEKSKOI SSR, TASHKENT, 1970 IN RUSSIAN
- 335 72 033 GUTTNER K EWALD H SCHMIDT H
MONTE-CARLO CALCULATIONS OF BACKSCATTERING OF HIGH ENERGY HEAVY IONS FROM METAL SURFACES
RADIAT. EFF., 13/1. NO. 2. 111. 1972
- 335 72 034 HOEGBERG G
STOPPING CROSS SECTION FOR 50 KEV NEON IONS SCATTERED IN THIN CARBON FOILS
PHYS. LTRS. 35A. 327. 1971
- 335 72 035 ISHITANI T SHIMIZU R MURATA K

MONTE-CARLO SIMULATIONS ON SCATTERING OF BOMBARDED IONS IN SOLIDS
JAP. J. APPL. PHYS., 11. NO. 2. 125. 1972
- 335 72 036 JANCO DL
RF SPUTTERING OF QUARTZ
MLM-1850. MOUND LAB., MIAMISBURG, OHIO. DEC. 1971. 13P. NTIS
- 335 72 037 JANEV RK TERZIC IV DAVIDOVIC DM
TRANSITION RATES OF THE RESONANT PROCESSES IN LI(+) AND NA(+) ION INTERACTION WITH LI, W, AND MO SURFACES
SURFACE SCI., 26. 142. 1971
- 335 72 038 JOYES P
ALTERNATIONS IN THE SECONDARY EMISSION OF MOLECULAR IONS FROM NOBLE METALS
J. PHYS. CHEM. SOLIDS. 32. 1269. 1971
- 335 72 039 JURELA Z
COMPARISON OF SECONDARY ION YIELDS FROM CONDUCTING, SEMICONDUCTING, AND NONCONDUCTING TARGETS BOMBARDED WITH 40 KEV ARGON IONS
RADIAT. EFF., 13/3. NO. 4. 167. 1972
- 335 72 040 KALASHNIKOV NP REMIZOVICH VS RYAZANOV MI
DISTRIBUTION OF ENERGY LOSSES FOR HEAVY POSITIVE PARTICLES IN A SINGLE CRYSTAL
JETP LTRS. USSR (ENGL. TRANS.), 13. NO. 12. 508. 1971. TRANSLATED FROM ZH. EKSP. TEOR. FIZ., PIS'MA RED., 13. 715. 1971
- 335 72 041 KAMINSKY M
MASS SPECTROMETRIC STUDIES OF EFFECTS CONNECTED WITH MEV ION CHANNELING IN METAL MONOCRYSTALS
PP 1167-72 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 335 72 042 KERKOW H
PHOTON EMISSION DURING BOMBARDMENT OF SOLIDS WITH ALKALI IONS IN ENERGY RANGE BETWEEN 2 AND 10 KEV
PHYS. STATUS SOLIDI. 10. 501. 1972
- 335 72 043 KHADZHINUKHAMID KK MAKHMUDOV AK AYUKHANOV AK
SECONDARY EMISSION OF NEGATIVE PARTICLES FROM NICKEL-CHROMIUM AND COPPER-BERYLLIUM ALLOYS
PP 41-5 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.). IZDATEL' STVO FAN UZBEKSKOI SSR, TASHKENT, 1970 IN RUSSIAN
- 335 72 044 KOROBCHA' IE ATROSHCH VI RYBALKO VF
ON SEPARATION OF GASEOUS IONS FROM SECONDARY IONS DURING INVESTIGATION OF HETEROGENEOUS CATALYTIC REACTIONS BY METHOD OF SECONDARY ION-IONIC EMISSION
UKR. KHIM. ZH., 38. 300. 1972 IN RUSSIAN

- 335 72 045 KUMAKHOV MA
ENERGY LOSSES OF FAST CHANNELLED IONS
PHYS. LETT. 37A, NO. 2, 153, 1971
- 335 72 046 LITTLEJOHN MA HOLLOWAY SB
COMPARISON OF RANGE-ENERGY CALCULATIONS OF HEAVY IONS IN SILICON USING THE INVERSE SQUARE LAW AND
THOMAS-FERMI POTENTIALS
RADIAT. EFF., 10, 133, 1971
- 335 72 047 MARGNIER J HAYMANN P
DIFFERENTIAL SPUTTERING YIELD OF NiCu ALLOYS
COMPT. REND., SER. B, 274, 81, 1972 IN FRENCH
- 335 72 048 MARTYNEKOV YV
DISTRIBUTION IN PENETRATION DEPTH OF CHANNELLED PARTICLES
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 2166, 1972. TRANSLATED FROM FIZ. TVERD. TELA, 13, 2580,
1971
- 335 72 049 MARWICK AD THOMPSON MW FARMERY BW HARBINSON GS
LOW ANGLE SCATTERING OF ENERGETIC IONS FROM AN AMORPHOUS SURFACE
RADIAT. EFF., 10, 49, 1971
- 335 72 050 MATTOX DM KOMINIAR GJ (2)
1. ION PLATING: CONCEPTS AND APPLICATIONS. 2. STRUCTURE MODIFICATION BY ION BOMBARDMENT DURING
DEPOSITION
1. SC-DC-721128. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, 1971. 36P. CONF-720308-1. FROM NASA
TECHNOLOGY UTILIZATION CONFERENCE ON SPUTTERING AND ION PLATING, CLEVELAND, OHIO, MARCH 16, 1972.
2. J. VAC. SCI. TECHNOL., 9, 528, 1972
- 335 72 051 MATZKE M
CHANNELING STUDY OF THE STRUCTURE OF U409
CAN. J. PHYS., 49, 2215, 1971. AECL-3921
- 335 72 052 MORGAN R GREENHALGH KR
ION IMPLANTATION. A BIBLIOGRAPHY
AERE-BIB-176. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, FEB. 1972. 94P. HL-72/335, 580
REFERENCES. NTIS
- 335 72 053 MO GITHNER
METHOD AND APPARATUS FOR ION BOMBARDMENT USING NEGATIVE IONS
BRITISH PATENT 1,259,505. JAN. 5, 1972. TO APPLIED RESEARCH LAB., INC. PRIORITY DATE APRIL 22, 1968,
UNITED STATES
- 335 72 054 NO AUTHOR
SYMPOSIUM ON SECONDARY ION FORMATION BY ION BOMBARDMENT OF SOLIDS, JULY 13, 1971. MEETING OF THE
MASS SPECTROSCOPY GROUP AT OXFORD UNIV. CHEMISTRY DEPT.
CONTENTS AVAILABLE FROM SCIENTIFIC DOCUMENTATION CENTRE LTD. (SUL), GUNTERLINE, U.K.
- 335 72 055 OCHSNER H GESANG WR
ENERGETIC NEUTRALS IN ION BOMBARDMENT EXPERIMENTS WITH LOW ENERGY NOBLE GAS IONS
PHYS. LETT. 37A, 235, 1971
- 335 72 056 OHTSUKI YH MIZUNO M KITAGAWA M
ABNORMAL STOPPING POWER OF PROTON AND ION CHANNELING
J. PHYS. SOC. JAPAN, 31, 1109, 1971
- 335 72 057 PALETTO S GOUTTE R GUILLAUD C
EMISSION D'IONS NEGATIFS PAR UNE CIBLE METALLIQUE MINCE BOMBARDEE PAR DES IONS POSITIFS
COMPT. REND., SER. AB, 273, 975, 1971
- 335 72 058 PALMBERG PW
USE OF AUGER ELECTRON SPECTROSCOPY AND INERT GAS SPUTTERING FOR OBTAINING CHEMICAL PROFILES
J. VAC. SCI. TECHNOL., 9, 160, 1972
- 335 72 059 PANIN SD LEBEDEV SY OUBINSKI VE
SHADOW EFFECT IN SINGLE CRYSTAL BOMBARDMENT BY HEAVY IONS
FIZ. TVERD. TELA, 14, 2452, 1972 IN RUSSIAN
- 335 72 060 PARILIS ES TURAEV NY KIVILIS VM
EFFECT OF MULTIPLE SCATTERING AND THERMAL VIBRATIONS ON REFLECTION OF IONS FROM FACE OF NICKEL
SINGLE CRYSTAL
PP 123-8 OF VICHIRNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.), IZDATEL'
STVO FAN UZBEKSKOI SSR, TASHKENT, 1970 IN RUSSIAN
- 335 72 061 PICHLMAYER F
DETERMINATION OF THE SPUTTERING YIELD AND OF THE SECONDARY ELECTRON YIELD OF SILICON CARBIDE,
PYROCARBON, AND GRAPHITE FOR 30 KEV AND 12 KEV ARGON IONS AT NORMAL INCIDENCE
SGAE-PH-109/1971. OESTERREICHISCHE STUDIENGESellschaft FÜR ATOMENERGIE G.M.B.H., SEIBERSDORF, 1970.
6P. NTIS
- 335 72 062 PRYDE M SMITH AG CARTER G
COMPUTER SIMULATION OF THE PENETRATION OF LOW ENERGY KR IONS INTO SINGLE CRYSTAL TUNGSTEN
J. PHYS. D, 4, 1681, 1971
- 335 72 063 QUOIRIN JB BLANCHARD B HILLERET N
ANALYSIS BY SECONDARY IONIC EMISSION IN SEMICONDUCTORS
CEA-CONF-1969. COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE. CENTRE D'ETUDES NUCLEAIRES,
SEPT. 1971. 8P IN FRENCH. CONF-710932-5. FROM 3RD INTERNATIONAL SYMPOSIUM ON THE APPLICATION OF
VACUUM TECHNIQUES IN SEMICONDUCTOR INDUSTRY, ELECTRONIC COMPONENTS, AND MICROELECTRONICS,
VERSAILLES, FRANCE, SEPT. 13, 1971
- 335 72 064 RANTANEN RO
ION BOMBARDMENT AND THERMAL RELEASE OF NOBLE GASES FROM STRAIN FREE AND STRESSED NIOBIUM SINGLE
CRYSTALS
THESIS. WASHINGTON STATE UNIV., PULLMAN, WASH., 1971. 72P. UNIV. MICROFILMS ORDER NO. 71-28,793
- 335 72 065 ROUSSEL J
CAPTURE OF LOW ENERGY RARE GAS IONS BY METALLIC TARGETS
FRNC-TH-198. THESIS. PARIS UNIV., ORSAY, FRANCE, 1971. 100P IN FRENCH. NTIS

- 335 72 066 RUGE I GRAUL J
ION IMPLANTATION IN SEMICONDUCTORS. PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON ION IMPLANTATION IN SEMICONDUCTORS, PHYSICS AND TECHNOLOGY, FUNDAMENTAL AND APPLIED ASPECTS, GARMISCH-PARTENKIRCHEN, GERMANY, MAY 24 - 28, 1971
BOOK, SPRINGER-VERLAG NEW YORK, INC., NEW YORK, 1971. 516P. CONF-710541. 65 PAPERS AND 3 ABSTRACTS
- 335 72 067 RYBALKO VF KOLOT VJ FOGEL JM
STUDY OF SURFACE OXIDATION OF TUNGSTEN BY THE SECONDARY ION EMISSION METHOD
PP 1109-12 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 335 72 068 SANTRY DC SITTER CW
RANGE AND RETENTION STUDIES OF 40 KEV IONS IN SOLIDS
PP 505-24 OF BMBW-FBK-70-28. PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 335 72 069 SANTRY DC WESTCOTT OM
RETENTION OF INERT GASES ION IMPLANTED INTO TRANSPORT TAPES FOR ON-LINE NUCLEAR SPECTROSCOPY
NUCL. INSTRUM. METHODS, 97, 471, 1971
- 335 72 070 SHELTON JW SMOTREL JR
EXCITATION OF ATOMS BY ION BOMBARDMENT NEAR THRESHOLD ENERGY
PHYS. LETT. 35A, 465, 1971
- 335 72 071 SHIMA K MAKINO I SAKISAKA M
ISOTOPE DEPENDENCE IN K, L, AND M SHELL IONIZATION CROSS SECTIONS BY HE(3)(+) AND HE(4)(+)
BOMBARDMENTS
J. PHYS. SOC. JAPAN, 31, 971, 1971
- 335 72 072 SHUL'GA VI YURASOVA VE
CALCULATION OF ARGON ION SCATTERING FROM A COPPER(100) SINGLE CRYSTAL SURFACE
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 1867, 1972. TRANSLATED FROM FIZ. TVERD. TELA, 13, 2224, 1971
- 335 72 073 SHUSTROV VA AYUKHANOV AK
NEGATIVE ION SPUTTERING OF TUNGSTEN BOMBARDED WITH ALKALI METAL IONS
PP 30-8 OF VTORICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.). IZDATEL' STVO FAN, UZBEKSKOI SSR, TASHKENT, 1970 IN RUSSIAN
- 335 72 074 SLETEN G KNUDSEN P
PREPARATION OF ISOTOPE TARGETS BY HEAVY ION SPUTTERING
PP 109-15 OF CCNF-711002. COPENHAGEN UNIV., DENMARK, OCT. 1971. FROM 3RD INTERNATIONAL SYMPOSIUM ON RESEARCH MATERIALS FOR NUCLEAR MEASUREMENTS, GATLINBURG, TENN., OCT. 5, 1971
- 335 72 075 SMITH HJ
ANOMALOUS BEHAVIOUR OF ZN UNDER METAL ION BOMBARDMENT
PHYS. LETT. 37A, 289, 1971
- 335 72 076 SMITH T
SPUTTER CLEANING AND ETCHING OF CRYSTAL SURFACES (Ti, W, Si) MONITORED BY AUGER SPECTROSCOPY, ELLIPSOmetry, AND WORK FUNCTION CHANGE
SURFACE SCI., 27, 45, 1971
- 335 72 077 SOMMERFELDT H MASHKOVA ES MOLCHANOV VA
1. AMORPHIZATION OF CRYSTALS BY ION BOMBARDMENT AND MECHANISMS OF SECONDARY PROCESSES. 2. SPUTTERING OF SILICON AND GERMANIUM BY MEDIUM ENERGY HEAVY IONS
RADIAT. EFF., 9, 267, 1971 IN GERMAN AND PHYS. LETT. 38A, 237, 1972
- 335 72 078 STROUD PT
ION BOMBARDMENT AND IMPLANTATION AND THEIR APPLICATION TO THIN FILMS
THIN SOLID FILMS, 11, 1, 1972
- 335 72 079 SUMMERS AJ FREEMAN NJ DALY NR
1. APPLICATION OF AN ENERGY SELECTIVE DETECTOR TO SPUTTERING ANALYSIS OF SOLIDS. 2. SPUTTERING OF NIOBIUM BY NIOBIUM, HYDROGEN, DEUTERIUM, AND HELIUM IONS IN 10 TO 80 KEV ENERGY RANGE
REV. SCI. INSTRUM., 42, 1353, 1971 AND J. APPL. PHYS., 42, 4774, 1971
- 335 72 080 SUURMEIJER EPTM ROERS AL
INSTRUMENTATION FOR THE STUDY OF ION REFLECTION AND SECONDARY ION EMISSION UPON ION BOMBARDMENT OF ATOMICALLY CLEAN AND SMOOTH MONOCRYSTALLINE METAL SURFACES
J. PHYS. E, 4, 663, 1971
- 335 72 081 TAMURA H DOI H KONDO T
AN EXTRACTING METHOD OF SECONDARY IONS IN ION MICROANALYZER
MASS SPECTRY, JAPAN, 19, 88, 1971 IN JAPANESE
- 335 72 082 TANTSYRE GO NIKOLAEV EN
FORMATION OF CLUSTERS IN ION BOMBARDMENT OF FILMS OF FROZEN POLAR SUBSTANCES
JETP LETT. USSR (ENGL. TRANS.), 13, 337, 1971
- 335 72 083 THOMPSON MW
1. SPUTTERING. 2. CHANNELING
PP 211-22 AND PP 223-36 OF PHYSICS OF IONIZED GASES, NAVINSEK, B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGNOVI, YUGOSLAVIA.
CONF-700706
- 335 72 084 TSONG IST
PHOTON EMISSION FROM SPUTTERED PARTICLES DURING ION BOMBARDMENT
PHYS. STATUS SOLIDI (A), 7, 451, 1971
- 335 72 085 VAN VLIET D
SPATIAL DISTRIBUTION OF CHANNELED IONS
RADIAT. EFF., 10, NO. 3, 137, 1971
- 335 72 086 VASIL'EV MA IVASHCHENKO YN CHEREPIN VT
MASS SPECTROMETRIC INVESTIGATION OF IONIC EMISSION FROM BOMBARDMENT OF METALS BY ARGON IONS
PP 148-53 OF FAZOVE PREVRASHCHENIYA. SVECHNIKOV, V.N. (ED.). NAUKOVA DUMKA, KIEV, 1970 IN RUSSIAN
- 335 72 087 WEHNER GK HAJICEK DJ
CONE FORMATION ON METAL TARGETS DURING SPUTTERING
J. APPL. PHYS., 42, 1145, 1971

- 335 72 088 WHEELER GA WOOLLEY RL (1)
A THEORETICAL STUDY OF THE STRUCTURE OF ATOMIC COLLISION CASCADES. 1. METHOD OF ANALYSIS. 2. CASCADES DERIVED FROM THE THOMAS-FERMI POTENTIAL
1. RD/B/N-1915, MARCH 1971, 35P. 2. RD/B/N-1916, MARCH 1971, 49P. CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND, BERKELEY NUCLEAR LABS.
- 335 72 089 WILSON IH KIDD MW
STUDY OF CONES DEVELOPED BY ION BOMBARDMENT OF GOLD
J. MATER. SCI., 6, 1362, 1971
- 335 72 090 YARKULOV U
INELASTIC ENERGY LOSSES OF SLOW IONS IN SOLIDS
IZV. AKADE. NAUK UZB. SSR, SER. FIZ.-MATEM. NAUK, NO. 2, 69, 1970 IN RUSSIAN
- 335 72 091 ZWANGOBANI ED MACDONALD RJ
SPUTTERED ATOM EJECTION FROM GE AND THE ANNEALING OF ION BOMBARDMENT INDUCED DISORDER
RADIAT. EFF., 11, 215, 1971
- 345 72 001 ARATANI M INARIDA M
MASS SPECTROSCOPIC STUDIES ON THE MECHANISM OF IONIZATION OF ATOMS FORMED AS A RESULT OF RADIOACTIVE DECAY PROCESSES. 2.
MASS SPECTRY, JAPAN, 20, 111, 1972 IN JAPANESE
- 345 72 002 BAILEY TL THOMAS BS
COLLISION DYNAMICS IN PLASMAS
AD-734 795, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 345 72 003 BARMIN AA KULIKOVSKII AG
IONIZATION AND RECOMBINATION FRONTS IN AN ELECTROMAGNETIC FIELD
JPRS-56500, TRANSLATED FROM, DOKLADY AKADEM. NAUK, 5, 5-31, 1971, 31P, NTIS
- 345 72 004 BATENIN VM DEVYATKI II ZRODNIKO VS
EXPERIMENTAL INVESTIGATION OF MOTION OF AN IONIZATION FRONT IN A MICROWAVE ELECTROMAGNETIC FIELD
HIGH TEMP. USSR (ENGL. TRANS.), 9, 814, 1971
- 345 72 005 BEX L BERNARD P
IONIZATION PHENOMENA INSIDE A DIAPHRAGM EXPANSION CUP
PP 68-86 OF ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY, BAKISH, R. (ED.), ELECTROCHEMICAL SOCIETY, INC., NEW YORK, 1970, FROM 4TH INTERNATIONAL CONFERENCE, LOS ANGELES, CALIF., MAY 10, 1970
- 345 72 006 BLIMAN S
1. PROCESSES INVOLVED IN IMPURITY IONIZATION IN HOT PLASMAS. 2. IONIZATION PROCESSES IN HOT PLASMAS
1. EUR-CEA-FC-624, EUROPEAN ATOMIC ENERGY COMMUNITY, COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES NUCLEAIRES, NOV. 1971, 16P IN FRENCH, NTIS. 2. CEA-CONF-2047, COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE, CENTRE D'ETUDES NUCLEAIRES, MARCH 1972, 6P IN FRENCH, CONF-720120-2, NTIS, FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, FRANCE, JAN. 28, 1972
- 345 72 007 BRIDON CE MCDOWELL CA STEWART WB
COMPARISON OF VIBRATIONAL TRANSITION PROBABILITIES FOR PENNING IONIZATION AND PHOTOIONIZATION OF NO TO THE XI(1)SIGMA(+) STATE OF NU(+) CH_4
CHEM. PHYS. LETT., 13, 79, 1972
- 345 72 008 BRODSKII VB BORONCHEV AT KRENEVA TV FEDOROV VL
MEASUREMENT OF THE CROSS SECTION FOR IONIZATION OF A CESIUM ATOM BY AN EXCITED MERCURY ATOM
HIGH TEMP. USSR (ENGL. TRANS.), 8, 854, 1970, TRANSLATED FROM TEPLIFIZ. VYS. TEMP., 8, 508, 1970
- 345 72 009 CARLS H HAASE H ZUZAK W
INVESTIGATIONS ON THE SHOCK TUBE
BMW-FBK-71-13, KIEL UNIV., WEST GERMANY, INSTITUT FUER EXPERIMENTALPHYSIK, OCT. 1971, 78P IN GERMAN, NTIS
- 345 72 010 CHU CK
COMPUTATIONAL STUDY OF SHOCK WAVES
CONF-710921-2, COLUMBIA UNIV., NEW YORK, 1971, 24P, FROM INTERNATIONAL SYMPOSIUM ON DYNAMICS OF IONIZED GASES, TOKYO, JAPAN, SEPT. 13, 1971
- 345 72 011 CONEN JS LANE NF
CALCULATION OF CROSS SECTIONS FOR PENNING IONIZATION: $\text{He}(\text{STAR})1(2)1\text{S}, 2(3)1\text{S} + \text{H}1(2)1\text{S}$
CHEM. PHYS. LETT., 10, 623, 1971
- 345 72 012 DAVENPORT PA
PHENOMENA IN IONIZED GASES, 1971, 10TH INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, SEPTEMBER 13 - 18, 1971, INVITED PAPERS
BOOK, DONALD PARSONS AND COMPANY LTD., OXFORD, 1971, 461P, CONF-710920, 14 PAPERS
- 345 72 013 DENIDENKO II LOMINO NS PADALKA VG
ION ENERGY SPECTRA AND LIFETIMES IN A MULTIPOLE MAGNETIC TRAP
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1823, 1971, TRANSLATED FROM ZH. TEKH. FIZ., 40, 2335, 1970
- 345 72 014 DENNIS JA
IONIZATION BY LOW ENERGY HEAVY IONS IN NITROGEN, CARBON DIOXIDE, ARGON, AND HYDROCARBON GASES
RADIAT. EFF., 8, 87, 1971
- 345 72 015 DOLININA VI SMIRNOV BM
FORMATION OF MOLECULAR IONS AS A RESULT OF TRIPLE COLLISIONS
HIGH TEMP. USSR (ENGL. TRANS.), 9, 819, 1971
- 345 72 016 DOOLEN G MCCARTOR G MCDONALD FA NUTTALL J
S-WAVE ELASTIC POSITRON-HYDROGEN SCATTERING IN THE IONIZATION REGION
PHYS. REV., 4A, 108, 1971
- 345 72 017 DUBACH J BARKER WA
CHARGED PARTICLE INDUCED IONIZATION RATES IN PLANETARY ATMOSPHERES
J. ATMOS. TERREST. PHYS., 33, 1287, 1971
- 345 72 018 FLANNERY MR
THREE BODY IONIC RECOMBINATION AS A MARKOV PROCESS
ANN. PHYS. (N.Y.), 67, 376, 1971

- 345 72 019 FOWLER GN PREIST TW
IONIZATION CROSS SECTIONS IN FLAMES
J. CHEM. PHYS., 56, 1601, 1972
- 345 72 020 GERBER G MORGENST R NIEHAUS A
IONIZATION PROCESSES IN SLOW COLLISIONS OF HEAVY PARTICLES. 1. HE AND HE(+) ON NE, AR, KR, AND XE
J. PHYS. B, 5, 1396, 1972
- 345 72 021 GOSTEVA TS FEDYAKOV VP
FINE STRUCTURE OF THE DISTRIBUTION FUNCTION OF IONS IN THE PLASMA OF A STRONG CURRENT Z DISCHARGE
JETP LTRS. USSR (ENGL. TRANS.), 14, NO. 3, 103, 1971. TRANSLATED FROM ZH. EKSP. TEOR. FIZ., PIS'MA
RED., 14, NO. 3, 158, 1971
- 345 72 022 HAMMOND RH
STUDY OF IONIZING COLLISIONS OF ARGON ATOMS WITH ARGON ATOMS AND OF HELIUM ATOMS WITH HELIUM ATOMS
THESIS, BROWN UNIV., PROVIDENCE, R.I., 1970, 121P. UNIV. MICROFILMS ORDER NO. 71-13,872
- 345 72 023 HANAKI A
PROTON IONIZATION AND THERMAL DECOMPOSITION OF 2-AMINO-2-THIAZOLINIUM ION AND ITS N-METHYL
DERIVATIVES
CHEM. PHARM. BULL. (TOKYO), 20, 1572, 1972
- 345 72 024 HOTE JP ABBE JC PAULUS JM
1. ETUDE A L'AIDE D'UN SPECTROMETRE DE MASSE A DEUX ETAGES DES IONS SECONDAIRES FORMES AU COURS DES
INTERACTIONS ENTRE DES IONS I(+) ET DU PROPANE. 2. ETUDE A L'AIDE D'UN SPECTROMETRE DE MASSE A
DEUX ETAGES DES IONS SECONDAIRES FORMES AU COURS DE COLLISIONS ENTRE DES IONS I(+) ET LE BUTANE OU
L'ISOBUTANE
J. MASS SPECTRY, ION PHYS., 7, 309 AND 319, 1971
- 345 72 025 HOTOP H ILLENBERGER E MORGNER H NIEHAUS A
PENNING ELECTRON SPECTRA FROM IONIZATION OF HYDROGEN ATOMS BY HE(2(1)S) AND HE(2(3)S) METASTABLES
CHEM. PHYS. LTRS, 10, 493, 1971
- 345 72 026 IL'IN RN
FORMATION AND LORENTZ IONIZATION OF HIGHLY EXCITED ATOMS
PP 113-32 OF PHYSICS OF IONIZED GASES. NAVINSEK, B. (ED.), INSTITUT JOZEF STEFAN, LJUBLJANA,
YUGOSLAVIA, 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGNOVI, YUGOSLAVIA, CONF-700706, 27
REFERENCES
- 345 72 027 JESSE WP
IONIZATION MEASUREMENTS IN MERCURY VAPOR WITH BETA PARTICLES AND THE MEAN ENERGY TO FORM AN ION PAIR
J. CHEM. PHYS., 55, 3603, 1971
- 345 72 028 KALRA SP MEASURES RM
INITIAL IONIZATION IN A HELIUM SHOCK WAVE
PHYS. FLUIDS, 14, 2544, 1971
- 345 72 029 KASHIMIRA N
IONIZING COLLISIONS OF FAST ALKALI ATOMS WITH CL₂, BR₂, AND O₂
THESIS, PURDUE UNIV., LAFAYETTE, IND., UNIV. MICROFILMS ORDER NO. 72-7976, DISS. ABS., 32B, 9, 5130,
1972
- 345 72 030 KOSTRITSKA AA CHEKUSHINA LV
CALCULATION OF IONIZATION OF GASES BY FISSION FRAGMENTS
IZV. AKADE. NAUK KAZ. SSR, SER. FIZ.-MATEM., NO. 6, 39, 1970 IN RUSSIAN
- 345 72 031 LIGHTNER GS VAN BRUNT RJ WHITEHEAD WD
MULTIPLE IONIZATION OF NE, AR, AND KR PRODUCED BY X-RAYS IN THE ENERGY RANGE 0.28 TO 8.03 KEV
PHYS. REV., 4A, 602, 1971
- 345 72 032 MAERK TD OSKAM HJ
1. PRODUCTION AND LOSS OF N₂(+), NE(+), AND NE₂(+) DURING THE DECAY PERIOD OF PLASMAS PRODUCED IN
NEON-NITROGEN MIXTURES. 2. ION PRODUCTION AND LOSS PROCESSES IN HELIUM-NITROGEN MIXTURES
Z. PHYS., 247, 84, 1971 AND PHYS. REV., 4A, 1445, 1971
- 345 72 033 MAGEE JL TAYLER AB
RECOMBINATION OF IONS IN COULOMB FIELD IN PRESENCE OF A SCAVENGER
J. CHEM. PHYS., 56, 3061, 1972
- 345 72 034 MAGRETOVA NN PASHCHENKO NT RAIZER YP
STRUCTURE OF A SHOCK WAVE WITH MULTIPLY IONIZED ATOMS
ZH. PRIKL. MEKH. TEKH. FIZ., NO. 5, 11-21, 1970 IN RUSSIAN
- 345 72 035 MAIER WB
CHARGE TRANSFER AND IONIZATION IN COLLISIONS BETWEEN ATOMIC IONS AND RARE GAS ATOMS FOR PRIMARY ION
ENERGIES BELOW 100 EV
PHYS. REV., 5A, 1256, 1972
- 345 72 036 MANSON ST
IONIZATION OF THE L-SHELL OF ALUMINUM BY FAST CHARGED PARTICLES
PHYS. LTRS, 35A, 89, 1971
- 345 72 037 MASSEY HSW
1. SLOW COLLISIONS OF POSITRONS IN GASES. 2. ELECTRONIC AND IONIC IMPACT PHENOMENA. VOLUME III. SLOW
COLLISIONS OF HEAVY PARTICLES
1. PP 307-43 OF ATOMIC PHYSICS 2. SANDARS, P.G.H. (ED.), PLENUM PRESS, LONDON, 1971, 24 REFERENCES.
FROM 2ND INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, JULY 21, 1970. 2. BOOK, INTERNATIONAL SERIES
OF MONOGRAPHS ON PHYSICS, CLARENDON PRESS, OXFORD, 1971, 959P
- 345 72 038 MATHER JW
DENSE PLASMA FOCUS
METHODS EXP. PHYS., 9, 187-249, 1971, 65 REFERENCES
- 345 72 039 MATSUZAWA M
IONIZATION OF LONG LIVED HIGHLY EXCITED ATOMS BY COLLISION WITH MOLECULES
J. CHEM. PHYS., 55, 2685, 1971
- 345 72 040 MCCARTOR GD NUTTALL J
CALCULATION OF IONIZATION AMPLITUDES BY THE COMPLEX-ENERGY METHOD
PHYS. REV., 4A, 625, 1971

- 345 72 041 MCCULLOUGH RW GILBODY HB
IONIZATION OF POTASSIUM BY 20 TO 100 KEV PROTONS
J. PHYS. B, 4, 1488, 1971
- 345 72 042 MORRISON JD TRAEGER JC
REPLY TO COMMENT BY C.R. BRUNDLE ON PAPER 'INTERACTION PHENOMENA IN IONIZATION PROCESSES'
J. CHEM. PHYS., 55, 2003, 1971
- 345 72 043 NAKAMURA M
ASSOCIATIVE IONIZATION IN SLOW COLLISIONS BETWEEN ATOMS. 1.
J. PHYS. SOC. JAPAN, 31, 574, 1971
- 345 72 044 NASSER E
FUNDAMENTALS OF GASEOUS IONIZATION AND PLASMA ELECTRONICS
BOOK, WILEY SERIES IN PLASMA PHYSICS, JOHN WILEY AND SONS, INC., NEW YORK, 1971, 468P, 14 CHAPTERS
- 345 72 045 NAVINSEK B
PHYSICS OF IONIZED GASES, PROCEEDINGS OF INTERNATIONAL SUMMER SCHOOL, HERCEGNOVI, YUGOSLAVIA, JULY 6
- 16, 1970
BOOK, INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, 1970, 733P, CONF-700706, 31 LECTURES
- 345 72 046 NIEHAUS A
IONISATION THROUGH METASTABLE SPECIES
PP 85-112 OF PHENOMENA IN IONIZED GASES, 1971, DAVENPORT, P.A. (ED.), DONALD PARSONS AND CO. LTD.,
OXFORD, 1971, FROM 10TH INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, SEPT. 13, 1971, 23 REFERENCES
- 345 72 047 NIKOLAEV VS KRUGLOVA IM
QUALITATIVE FEATURES OF GENERALIZED OSCILLATOR STRENGTHS AND IONIZATION CROSS SECTIONS IN ION-ATOM
COLLISIONS
PHYS. LETT., 37A, 315, 1971
- 345 72 048 NISHIMUR K
NONMAXWELLIAN ION VELOCITY DISTRIBUTION AND THERMALIZATION RATE IN A PLASMA
PHYS. LETT., 38A, 535, 1972
- 345 72 049 NO AUTHOR
PHYSICAL ELECTRONICS AND PLASMA PHYSICS (MASS SPECTROSCOPY)
AD-719 553, ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER, CHARLOTTESVILLE, VA, 18P
- 345 72 050 NO AUTHOR
1. TOROIDAL CONFINEMENT EXPERIMENTS. 2. THEORY. 3. RADIO-FREQUENCY HEATING
PP 1-34, PP 35-48, AND PP 54-63 OF MATT-0-28, PRINCETON UNIV., NEW JERSEY, PLASMA PHYSICS LAB, IN
ANNUAL REPORT, JAN. 1970 - JAN. 1971
- 345 72 051 OGURTSOV GN
ENERGY SPECTRA OF ELECTRONS EJECTED IN ION-ATOM COLLISIONS
REV. MOD. PHYS., 44, NO. 1, 1-17, 1972, 67 REFERENCES
- 345 72 052 OKUNO K KANEKO Y KANOMATA I
COLLISION INDUCED IONIZATION OF HIGHLY EXCITED ARGON IONS
PP 630-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 345 72 053 OLOV VU TARAHENKO LA
MASS SPECTRA OF COMPLEX MOLECULES DURING IONIZATION BY METASTABLE ATOMS OF INERT GASES AND BY
PHOTONS

CHEM. HIGH ENERGY USSR (ENGL. TRANS.), 6, NO. 2, 173, 1972
- 345 72 054 OLSON RE
1. ENERGY DEPENDENCE FOR $\text{He}(1P5\ 3S\ (3)P) + \text{Ar}$ IONIZATION TOTAL CROSS SECTIONS. 2. ABSORBING SPHERE
MODEL FOR CALCULATING ION-ION RECOMBINATION TOTAL CROSS SECTIONS. 3. LOW ENERGY THEORETICAL
INELASTIC SCATTERING DIFFERENTIAL CROSS SECTIONS FOR THE PROCESS $\text{He}(+) + \text{He} \rightarrow \text{He}(+) + \text{He}(2(3)S)$.
4. SEMIEMPIRICAL CALCULATIONS OF $\text{He}(2(3)S\ \text{AND}\ 2(1)S) + \text{Ar}$ IONIZATION TOTAL CROSS SECTIONS
CHEM. PHYS. LETT., 13, 307, 1972, J. CHEM. PHYS., 56, 2979, 1972, PHYS. REV., 5A, 2094, 1972, AND
PHYS. REV., 6A, 1031, 1972
- 345 72 055 PANKRAT'EV YI NOZDRACHEV MG LAVRENT'EV OA
PLASMA ACCUMULATION BY IONIZATION OF RESIDUAL GAS IN AN ELECTROMAGNETIC TRAP
AT. ENERG. (USSR), 32, NO. 2, 131, 1972 IN RUSSIAN
- 345 72 056 PARKS EK WEXLER S
COLLISIONAL DISSOCIATIVE IONIZATION OF TLBR BY ACCELERATED XE AND KR ATOMS
CHEM. PHYS. LETT., 10, 245, 1971
- 345 72 057 PARKS JE
1. IONIZATION OF NOBLE GASES BY PROTONS. 2. CHARGED PARTICLE INTERACTIONS WITH NOBLE GASES
1. THESIS, UNIV. OF KENTUCKY, LEXINGTON, 1970, 121P, UNIV. MICROFILMS ORDER NO. 71-8594, 2.
ORO-3650-A, FINAL PROGRESS REPORT, KENTUCKY UNIV., LEXINGTON, DEPT. OF PHYSICS AND ASTRONOMY, JULY
1971, 111P
- 345 72 058 PROSSER RM
PHYSICAL AND PHYSICO-CHEMICAL EFFECTS OF IONIZING RADIATION IN GASES
NP-19192, THESIS, MELBOURNE UNIV., PARKVILLE, AUSTRALIA, 1970, 145P, NTIS
- 345 72 059 RICHARDSON WC SETSER DW ALBRITTON DL SCHMELTEKOPF AL
VIBRATIONAL AND ROTATIONAL EXCITATION IN $\text{He}(2(3)S(1))$ PENNING IONIZATION: EXAMPLES OF NONVERTICAL
PROCESSES
CHEM. PHYS. LETT., 12, 349, 1971
- 345 72 060 RISEBERG LA SCHEARER LD
PENNING EFFECT CROSS SECTIONS FOR COLLISIONS BETWEEN NOBLE GAS METASTABLES AND GROUP-II ATOMS
PHYS. LETT., 35A, 269, 1971
- 345 72 061 ROSENSTOCK HM
HARMONIC OSCILLATOR FRANK-CONDON FACTORS FOR THE IONIZATION OF N_2
COM-72-5018, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 345 72 062 RAY RN TRIPATHI DN RAI DK
NEW CLASSICAL MODEL FOR PROTON IMPACT IONIZATION OF ATOMS
PHYS. REV., 5A, 1252, 1972

- 345 72 063 SCHMIDT M
WALL LOSSES ON SIMILAR POSITIVE COLUMNS OF NEON LOW PRESSURE GLOW DISCHARGE
BEITR. PLASMAPHYS., 11, 67, 1971 IN GERMAN
- 345 72 064 SMIRNOV BM
ATOMNYE STOLKNOVENIYA I ELEMENTARNYE PROTSESSY V PLAZME (ATOMIC COLLISIONS AND ELEMENTARY PROCESSES IN PLASMA)
BOOK. ATOMIZDAT. MOSCOW, 1968, 364P
- 345 72 065 STONEHAM TA
PRECISE MEASUREMENTS OF W. THE MEAN ENERGY EXPENDED PER ION PAIR FORMED IN ALKANE VAPORS AND IN ARGON
THESIS. UNIV. OF HOUSTON, TEXAS, 1970, 97P. UNIV. MICROFILMS ORDER NO. 71-19,102
- 345 72 066 TAL'ROSE VL KARACHEVTSEV GV
ELEMENTARY REACTIONS IN LOW TEMPERATURE PLASMA
PP 35-139 OF REACTIONS UNDER PLASMA CONDITIONS. VOL. II. VENUGOPALAN, M. (ED.). JOHN WILEY AND SONS, INC., NEW YORK, 1971, 13 SUBJECTS
- 345 72 067 TANAKA I
PROCESSES OF EXCITATION, DISSOCIATION, AND IONIZATION BY PHOTON IMPACT, ELECTRON IMPACT, AND COLLISION OF EXCITED SPECIES
J. CHEM. SOC. JAPAN, PURE CHEM. SECT., 92, 1027, 1971
- 345 72 068 TANG SY MARCUS AB MUSCHLITZ EE
VELOCITY DEPENDENCE OF IONIZATION OF AR, KR, AND XE ON IMPACT OF METASTABLE NEON ATOMS
J. CHEM. PHYS., 56, 566, 1972
- 345 72 069 VERBOVSKAYA GV KUPIYANOV SE
MASS SPECTROMETRIC STUDY OF THE REACTIONS OF EXCITED ATOMS AND MOLECULES. IONIZATION OF TETRAFLUOROETHYLENE, TETRAFLUOROMETHANE, AND HEXAFLUOROPROPYLENE MOLECULES EXCITED BY ATOMS OF INERT GASES
CHEM. HIGH ENERGY USSR (ENGL. TRANS.), 5, 533, 1971
- 345 72 070 WELLENSTEIN HF ROBERTSON WW
COLLISIONAL RELAXATION PROCESSES FOR THE $n = 3$ STATES OF HELIUM. 1. EXCITATION TRANSFER BY NORMAL ATOMS AND BY ELECTRONS. 2. ASSOCIATIVE IONIZATION. 3. TOTAL LOSS RATES FOR NORMAL ATOM COLLISION
J. CHEM. PHYS., 56, 1072, 1077, AND 1411, 1972
- 347 72 001 BHATTACH A MACNEIL K FUTRELL J
CHEMICAL IONIZATION STUDIES WITH A DUPONT 21-490 ANALYTICAL MASS SPECTROMETER
AD-741 851, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1972
- 347 72 002 BIROS FJ DOUGHERTY RC DALTON J
POSITIVE CHEMICAL IONIZATION MASS SPECTRA OF POLYCYCLIC CHLORINATED PESTICIDES
ORG. MASS SPECTRY, 6, 1161, 1972
- 347 72 003 BONNER RF
A LOW PRESSURE CHEMICAL IONISATION SOURCE: AN APPLICATION OF A NOVEL TYPE OF ION STORAGE MASS SPECTROMETER
J. CHEM. SOC., NO. 21, 1179, 1972
- 347 72 004 CLOW RP
ION CYCLOTRON RESONANCE STUDY OF THE MECHANISMS OF CHEMICAL IONIZATION OF SELECTED HYDROCARBONS USING METHANE REAGENT GAS AND ION-MOLECULE REACTIONS IN HYDROGEN
THESIS. UNIV. OF UTAH, SALT LAKE CITY, 1971, 135P. UNIV. MICROFILMS ORDER NO. 72-1125
- 347 72 005 CLOW RP FUTRELL JH
ION CYCLOTRON RESONANCE STUDY OF THE MECHANISM OF CHEMICAL IONIZATION. MASS SPECTROSCOPY OF SELECTED HYDROCARBONS USING METHANE REAGENT GAS
JACS., 94, 3748, 1972
- 347 72 006 DELVIGNE GAL LOS J
DIFFERENTIAL CROSS SECTION FOR CHEMI-IONIZATION IN ALKALI ATOM-HALOGEN MOLECULE COLLISIONS. CLASSICAL INTERPRETATION
PHYSICA, 59, 61, 1972
- 347 72 007 DOLIESLA J LEMOINE J DEJAEGER S
STUDY OF CHEMI-IONIZATION IN EXPLOSIONS BY FLASH PHOTOLYSIS
BULL. SOC. CHIM. BELGES, 81, 199, 1972
- 347 72 008 DOUGHERTY RC DALTON J BIROS FJ
NEGATIVE CHEMICAL IONIZATION MASS SPECTRA OF POLYCYCLIC CHLORINATED INSECTICIDES
ORG. MASS SPECTRY, 6, 1171, 1972
- 347 72 009 OZIDIC I MCCLOSKEY
1. MASS STANDARDS FOR CHEMICAL IONIZATION MASS SPECTROMETRY. 2. INFLUENCE OF REMOTE FUNCTIONAL GROUPS IN THE CHEMICAL IONIZATION MASS SPECTRA OF LONG CHAIN COMPOUNDS
ANAL. CHEM., 43, 1877, 1971 AND JACS, 93, 4955, 1971
- 347 72 010 FALES HM
CHEMICAL IONIZATION MASS SPECTROMETRY OF COMPLEX MOLECULES. ESTERS OF DI AND TRICARBOXYLIC ACIDS
ANAL. CHEM., 43, 1785, 1971
- 347 72 011 FITE WL IRVING P
CHEMI-IONIZATION IN COLLISIONS OF URANIUM ATOMS WITH OXYGEN ATOMS AND MOLECULES
J. CHEM. PHYS., 56, 4227, 1972
- 347 72 012 FOLTZ RL
CHEMICAL IONIZATION MASS SPECTROMETRY IN THE IDENTIFICATION OF DRUG METABOLITES
BIOCHEM. MED., 6, NO. 3, 294, 1972
- 347 72 013 HOWARD JS RIOLA JP RUNDEL RD STEBBINGS RF
CHEMI-IONIZATION IN COLLISIONS BETWEEN HELIUM METASTABLE ATOMS AND ARGON
PHYS. REV. LETT., 29, 321, 1972
- 347 72 014 HUNT DF RUSSELL JW TORDIAN RL MCEWEN CN UPHAM RA

- RYAN JF
1. CHEMICAL IONIZATION MASS SPECTROMETRY STUDIES. V. SOME TRANSITION METAL ORGANOMETALLIC COMPOUNDS.
2. DETERMINATION OF ACTIVE HYDROGEN IN ORGANIC COMPOUNDS BY CHEMICAL IONIZATION MASS SPECTROMETRY.
3. ARGON-WATER MIXTURES AS REAGENTS FOR CHEMICAL IONIZATION MASS SPECTROMETRY. 4. CHEMICAL
IONIZATION MASS SPECTROMETRY STUDIES. NITRIC OXIDE AS A REAGENT GAS
J. ORGANOMET. CHEM., 43, 175, 1972. ANAL. CHEM., 44, 1292, 1972. ANAL. CHEM., 44, 1306, 1972. AND J.
CHEM. SOC., CHEM. COMMUN., P620, 1972
- 347 72 015 KARASEK FW
CHEMICAL IONIZATION MASS SPECTROMETRY
RES./DEVELOP., 23, NO. 4, 63, 1972
- 347 72 016 LAURIE WA FIELD FM
CHEMICAL IONIZATION MASS SPECTROMETRY. 16. TEMPERATURE EFFECTS IN TERTIARY ALKYL ACETATES. 18.
EFFECT OF ACID IDENTITY ON DECOMPOSITION RATES OF PROTONATED TERTIARY ALKYL ESTERS
JACS, 94, 2913 AND 3359, 1972
- 347 72 017 LONGEVILLE P DEVISSAG P KHUONG HU
SPECTROMETRIE DE MASSE PAR IONISATION CHIMIQUE DE L'HOLACURTINE ET DE SES DERIVES
COMPT. REND., SER. C, 273, 1533, 1971
- 347 72 018 MICHNOWICZ J MUNSON B
STUDIES IN CHEMICAL IONIZATION MASS SPECTROMETRY: ARYL KETONES
ORG. MASS SPECTRY, 6, 283, 1972
- 347 72 019 MILNE GWA
IDENTIFICATION OF DANGEROUS DRUGS BY ISOBUTANE CHEMICAL IONIZATION MASS SPECTROMETRY
ANAL. CHEM., 43, 1815, 1971
- 347 72 020 SMITH JL VAN DEN HEUVEL WJ
CHEMICAL IONIZATION MASS SPECTROMETRY OF STEROIDS
ANAL. LTRS, 5, 51, 1972
- 347 72 021 SOLOMON JJ PORTER RF
CHEMICAL IONIZATION MASS SPECTROMETRY OF SELECTED BORON HYDRIDES
JACS, 94, 1443, 1972. AD-745 638, 1971
- 347 72 022 SROKA G CHANG C MEISELS GG
ARRIVAL TIME DISTRIBUTIONS IN HIGH PRESSURE MASS SPECTROMETRY. 1. RESIDENCE TIMES OF REACTANT IONS
IN CHEMICAL IONIZATION AND MEASUREMENT OF REACTION RATE CONSTANTS
JACS, 94, 1052, 1972
- 347 72 023 VAN T PEETERS J VINCKIER C
CHEMI-IONIZATION INDUCED BY CYANOGEN IN CARBON MONOXIDE-OXYGEN-NITROGEN FLAMES
AD-737 006. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 347 72 024 WHITNEY IA KLEMMAN LP FIELD FM
INVESTIGATION OF POLYTERTIARY ALKYLAMINES USING CHEMICAL IONIZATION MASS SPECTROMETRY
ANAL. CHEM., 43, 1048, 1971
- 347 72 025 WILSON MS
CHEMICAL IONIZATION MASS SPECTROMETRY OF NUCLEOSIDES
BIOCHIM. BIOPHYS. ACTA, 240, 623, 1971 AND NUCLEIC ACIDS/PROTEIN SYNTHESIS (VOL. N43, NO. 4): 8 B A
REPORT
- 350 72 001 ABOUAF R
1. MULTIPLE IONIZATION AND AUGER TRANSITIONS INDUCED IN IN AND AG BY ELECTRON BOMBARDMENT. 2.
PROCESSES OF FORMATION OF MULTIPLY CHARGED IONS BY ELECTRON IMPACT
1. J. PHYS. (PARIS), 32, 603, 1971 IN FRENCH. 2. FRNC-CNF-51. PARIS UNIV., ORSAY, FRANCE, 1972. 21P
IN FRENCH. CCNF-720120-6. FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, JAN. 28,
1972
- 350 72 002 ADAMCZYK B BOERBOOM AJM LUKASIEWICZ M
PARTIAL IONIZATION CROSS SECTIONS OF CARBON DIOXIDE BY ELECTRONS (25-600 EV)
J. MASS SPECTRY, ION PHYS., 9, 407, 1972. 5 REFERENCES
- 350 72 003 AITKEN KL HARRISON MFA RUNDEL RD (2)
MEASUREMENT OF THE CROSS SECTIONS FOR ELECTRON IMPACT IONIZATION OF MULTI-ELECTRON IONS. 1. O(+) TO
O(2+) AND O(2+) TO O(3+). 2. N(2+) TO N(3+) AND C(+) TO C(2+)
J. PHYS. B, 4, 1176 AND 1189, 1971
- 350 72 004 AKSELA S
ELECTRON SPECTROSCOPY
SOUVEN. KEM., 45, NO. 3, 44-54, 1972
- 350 72 005 ALI AW ANDERSON AD
LOW ENERGY ELECTRON IMPACT RATE COEFFICIENTS FOR SOME ATMOSPHERIC SPECIES
AD-747 244. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 350 72 006 ANDERSON RJ HUGHES RH
EXCITATION OF THE N = 4 LEVEL OF He(+) BY ELECTRON IMPACT ON He
PHYS. REV., 5A, 1194, 1972
- 350 72 007 BLACKBURN PE DANIELSON PM
ELECTRON IMPACT RELATIVE IONIZATION CROSS SECTIONS AND FRAGMENTATION OF U, UO, UO2, AND UO3
J. CHEM. PHYS., 56, 6156, 1972
- 350 72 008 BORDSSAY J CSAKVAI B KNAUSZ D
MASS SPECTROMETRIC INVESTIGATION OF IONIZATION BY ELECTRON IMPACT METHOD. 1.
MAGY. KEM. FOLY., 77, 593, 1971
- 350 72 009 CARTWRIGHT DC GODDARD W HUESTIS DL TRAJMAR S
GROUP THEORETICAL SELECTION RULES FOR ELECTRON IMPACT SPECTROSCOPY
AD-736 437. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 350 72 010 COOPER JW KOLOENSTVEDT M
DIFFERENTIAL ENERGY AND ANGULAR CROSS SECTIONS FOR IONIZATION BY SEVERAL HUNDRED KEV ELECTRONS:
THEORY AND COMPARISON WITH EXPERIMENT
PHYS. REV., 5A, 677, 1972. LUM-72-3032, 1972

- 350 72 011 COTTER JL OINE-HART RA (1)
1. IONIZATION AND DISSOCIATION OF SOME PYROMELLITIMIDES UNDER ELECTRON IMPACT. 2. IONIZATION AND DISSOCIATION OF SOME PERFLUOROALKYLENE LINKED SILANES AND CYCLIC SILOXANES UNDER ELECTRON IMPACT
1. N71-15829. ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH, ENGLAND. 24P. 2. ORG. MASS SPECTRY. 6. 425. 1972
- 350 72 012 CROWE A PRESTON JA MCCONKEY JW
IONIZATION OF ARGON BY ELECTRON IMPACT
J. CHEM. PHYS. 57. 1620. 1972
- 350 72 013 DORITCH M
EXPERIMENTAL DETERMINATION OF THE IONIZATION CROSS SECTIONS OF SOME RARE GASES NEAR THE THRESHOLD
FRNC-TH-44. THESIS. RENNES UNIV. FRANCE, FACULTE DES SCIENCES. 1970. 92P IN FRENCH
- 350 72 014 DRUKAREV GF
EXCITATION AND IONIZATION OF ATOMS BY ELECTRON AND PROTON IMPACT: APPROXIMATE EXPRESSIONS AND SCALING RELATIONS FOR THE CROSS SECTIONS
PP 1-25 OF PHYSICS OF IONIZED GASES. NAVINSEK. B. (ED.). INSTITUT JOZEF STEFAN. LJUBLJANA. YUGOSLAVIA. 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGNOVI. YUGOSLAVIA. CONF-700706
- 350 72 015 EHRHARDT H HESSELBA KH JUNG K
COLLISIONAL IONIZATION OF HELIUM BY SLOW ELECTRONS
J. PHYS. B. 5. 1559. 1972
- 350 72 016 EL-SHERBINI TM VAN DER WIEL MJ
IONIZATION OF N₂ AND CO BY 10 KEV ELECTRONS AS A FUNCTION OF THE ENERGY LOSS. 1. VALENCE ELECTRONS
PHYSICA. 59. 433. 1972
- 350 72 017 FONTANA J
ADVANCED DESIGN, ALIGNMENT, AND CALIBRATION OF AN APPARATUS TO MEASURE THE EFFECTIVE CROSS SECTION OF MOLECULAR NITROGEN WHEN BOMBARDED BY LOW ENERGY ELECTRONS
AD-742 925. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 350 72 018 FRANKLIN JL BROOKS PR
RECOMBINATION OF POSITIVE IONS WITH ELECTRONS IN GASES
ORO-3771-4. FINAL REPORT. APRIL 1968 - APRIL 1972. RICE UNIV., HOUSTON, TEXAS. 1972. 6P. NTIS
- 350 72 019 GALLON TE MATTHEW JA
COMPARISON OF X-RAY AND ELECTRON IMPACT IONIZATION IN AUGER SPECTROSCOPY
J. PHYS. D. 5. NO. 8. L69. 1972
- 350 72 020 GOLDEN LB
ELECTRON IMPACT CROSS SECTIONS AND RATES FOR EXCITATION AND IONIZATION OF HYDROGEN AND HYDROGENIC IONS
THESIS. PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. 1971. 129P. UNIV. MICROFILMS ORDER NO. 72-9468
- 350 72 021 GRISSOM JT COMPTON RN GARRETT WR
SLOW ELECTRONS FROM ELECTRON IMPACT IONIZATION OF HE, NE, AND AR
PHYS. REV. 6A. 977. 1972
- 350 72 022 GRUJIC P
THRESHOLD LAWS FOR ELECTRON-ATOM COLLISIONS
PP 150-74 OF PHYSICS OF IONIZED GASES. NAVINSEK. B. (ED.). INSTITUT JOZEF STEFAN. LJUBLJANA. YUGOSLAVIA. 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGNOVI. YUGOSLAVIA. CONF-700706. 37 REFERENCES
- 350 72 023 GRYZINSKI M KUNC J ZGORZELSKI M
IONIZATION OF ATOMIC HYDROGEN BY ELECTRON IMPACT. NUMERICAL CALCULATIONS FOR 'FREE-FALL' ATOMIC MODEL
PHYS. LETT. 38A. 35. 1972 AND INR-P-1327. INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND. 1971. 10P
- 350 72 024 HARLAND PW THYNNE JCJ
IONIZATION OF PERFLUOROCYCLOBUTANE BY ELECTRON IMPACT
J. MASS SPECTRY. ION PHYS. 10. 11. 1972. 33 REFERENCES
- 350 72 025 HASTED JB AWAD GL
ELECTRON IMPACT IONIZATION OF IONS TRAPPED IN A HOLLOW ELECTRON BEAM
J. PHYS. B. 5. 1719. 1972
- 350 72 026 HIDALGO MB MCGUIRE JH DOOLEN GD
GLAUBER CALCULATION OF ELECTRON-HYDROGEN IONIZATION CROSS SECTIONS
J. PHYS. B. 5. NO. 4. L70. 1972. AD-746 579. 1972
- 350 72 027 HOCH M OBLINGER CJ ROLINSKI EJ
THERMODYNAMICS OF VANADIUM ALLOYS. 3. RELATIVE IONIZATION CROSS SECTIONS OF TRANSITION METALS USING TIME-OF-FLIGHT MASS SPECTROMETRY
AD-720 288. FINAL REPORT. JAN. 1969 - APRIL 1970. CINCINNATI UNIV., OHIO. DEPT. OF MATERIALS SCIENCE AND METALLURGICAL ENGINEERING. OCT. 1970. 25P. AFML-TR-70-119(P.3) NTIS
- 350 72 028 HOOPER JW FEENEY RK SAYLE WE MCPHERSON D SCHULTHESS P
EXCITATION AND IONIZATION OF IONS BY ELECTRON IMPACT
ORO-3027-21. TECHNICAL PROGRESS REPORT. SEPT. 1971 - JUNE 1972. GEORGIA INST. OF TECH., ATLANTA. ENGINEERING EXPERIMENT STATION. 18P. NTIS
- 350 72 029 JACOBS A
ANALYTICAL EXPRESSIONS FOR EXCITATION AND IONIZATION CROSS SECTIONS AND RATE COEFFICIENTS OF HYDROGEN LIKE IONS BY ELECTRON AND PROTON IMPACT
J. QUANT. SPECTROSC. RAD. TRANS. 12. 243. 1972
- 350 72 030 LABORIE P ROCARD JM REES JA
ELECTRONIC CROSS SECTIONS AND MACROSCOPIC COEFFICIENTS. VOLUME 2. METALLIC VAPOURS AND MOLECULAR GASES
BOOK. DUNOD. PARIS. 1971. 348P IN FRENCH AND ENGLISH
- 350 72 031 LUYKEN BFJ DE HEER FJ BAAS RC
ROLE OF THE OUTER S SHELL IN SINGLE IONIZATION OF NE, AR, KR, AND XE BY ELECTRON IMPACT
PHYSICA. 61. 200. 1972

- 350 72 032 MANN JB
IONIZATION CROSS SECTIONS OF THE ELEMENTS
PP 814-19 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 350 72 033 MASUDA Y
MASS SPECTRA OF ETHYLENE ON LOW ENERGY ELECTRON BOMBARDMENT
MASS SPECTRY, JAPAN, 19, 158, 1971 IN JAPANESE
- 350 72 034 MCCONKEY JW CROWE A HENDER MA
DIFFERENTIAL CROSS SECTIONS IN THE ELECTRON IMPACT IONIZATION OF ATOMS AND MOLECULES
PHYS. REV. LETT., 29, 1, 1972
- 350 72 035 MEISELS GG CHEN CT GIESSNER BG EMMEL RH
ENERGY DEPOSITION FUNCTIONS IN MASS SPECTROMETRY
J. CHEM. PHYS., 56, 793, 1972
- 350 72 036 MILES WT THOMPSON R GREEN AES
ELECTRON IMPACT CROSS SECTIONS AND ENERGY DEPOSITION IN MOLECULAR HYDROGEN
J. APPL. PHYS., 43, 678, 1972
- 350 72 037 MOORES DL
ELECTRON IMPACT IONIZATION OF POSITIVE IONS WITH CONFIGURATION $1s(2)2s(2)2p(0)$
J. PHYS. B, 5, 286, 1972
- 350 72 038 OKUDAIRA S NAGATA T OKUNO Y KANEKO Y KANOMATA I
IONIZATION OF METAL ATOMS BY ELECTRON IMPACT
PP 769-74 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 350 72 039 OKUNO Y
IONIZATION CROSS SECTIONS OF CA, SR, AND BA BY ELECTRON IMPACT
J. PHYS. SOC. JAPAN, 31, 1189, 1971
- 350 72 040 OPAL CB PETERSON WK BEATY EC
MEASUREMENTS OF SECONDARY ELECTRON SPECTRA PRODUCED BY ELECTRON IMPACT IONIZATION OF A NUMBER OF
SIMPLE GASES
J. CHEM. PHYS., 55, 4100, 1971. AD-733 531 AND COM-72-5048, 1971
- 500 72 041 WINDHOLM G THOMPSON R
CALCULATIONS OF ELECTRON IMPACT CROSS SECTIONS
AD-728 684. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U. S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 350 72 042 PEAS VM NEWELL WR
ELECTRON IMPACT IONIZATION CROSS SECTIONS OF INNER ATOMIC SHELLS
PHYS. SCRIPTA, 3, NO. 3/4, 165, 1971
- 350 72 043 PEART B GOLDER KT
COLLISIONS BETWEEN ELECTRONS AND H_2^{+} IONS. 1. MEASUREMENTS OF CROSS SECTIONS FOR PROTON
PRODUCTION. 2. MEASUREMENTS OF CROSS SECTIONS FOR DISSOCIATIVE EXCITATION
J. PHYS. B, 4, 1496, 1971 AND 5, 860, 1972
- 350 72 044 PETERKOP RK
QUASICLASSICAL APPROACH IN AN IONIZATION PROBLEM
LATV. PSR ZINAT. AKAD. VESTIS. FIZ. TEH. ZINAT. SER., NO. 1, 7-15, 1971 IN RUSSIAN
- 350 72 045 PETERSON LR ALLEN JE
ELECTRON IMPACT CROSS SECTIONS FOR ARGON
J. CHEM. PHYS., 56, 6068, 1972
- 350 72 046 PETERSON WK
MEASUREMENTS OF ENERGY AND ANGULAR DISTRIBUTIONS OF SECONDARY ELECTRONS PRODUCED IN ELECTRON IMPACT
IONIZATION OF HELIUM
THESIS, UNIV. OF COLORADO, BOULDER, 1971. 139P. UNIV. MICROFILMS ORDER NO. 71-25,864
- 350 72 047 PETERSON WK OPAL CB BEATY EC
1. ENERGY DISTRIBUTIONS OF ELECTRONS EJECTED IN IONIZING COLLISIONS OF ELECTRONS WITH HELIUM. 2.
MEASUREMENTS OF ENERGY AND ANGULAR DISTRIBUTIONS OF SECONDARY ELECTRONS PRODUCED IN ELECTRON
IMPACT IONIZATION OF HELIUM
J. PHYS. B, 4, 1020, 1971 AND PHYS. REV., 5A, 712, 1972. AD-737 532, 1971 AND COM-72-5029, 1972
- 350 72 048 POLYAKOVA GN ERKO VF ZATS AV FEGEL YM
DISTRIBUTION OF ROTATIONAL ENERGY LEVELS OF N_2^{+} IONS PRODUCED IN IONIZATION OF N_2 MOLECULES BY
SLOW ELECTRONS
ZH. EKSP. TEOR. FIZ., 62, NO. 1, 57, 1972 IN RUSSIAN
- 350 72 049 RAPP D
CONCERNING THE POSSIBILITY OF COMPETITION IN IONIZATION OF MOLECULES BY ELECTRON IMPACT
J. CHEM. PHYS., 55, 4154, 1971
- 350 72 050 SALEM SI MORELAND LD
 $L(II)$ AND $L(III)$ IONIZATION CROSS SECTIONS IN GOLD AT VERY LOW ENERGIES
PHYS. LETT., 37A, 161, 1971
- 350 72 051 SAMPSON DH GOLDEN LB
SEMIEMPIRICAL CROSS SECTIONS AND RATES FOR EXCITATION AND FOR IONIZATION OF HYDROGENIC IONS BY
ELECTRON IMPACT
ASTROPHYS. J., 170, 169, 1971
- 350 72 052 SUMIN LV GUREV MV
IONIZATION OF ATOMS AND MOLECULES BY ELECTRON IMPACT. ENERGY LOSSES AND MOMENTUM TRANSFER
ZH. EKSP. TEOR. FIZ., 62, 2026, 1972 IN RUSSIAN
- 350 72 053 SUTTON JF
MEASUREMENT OF RELATIVE CROSS SECTIONS FOR SIMULTANEOUS IONIZATION AND EXCITATION OF THE HELIUM
 $4(2)S$ AND $4(2)P$ STATES
THESIS, AMERICAN UNIV., WASHINGTON, D.C., 1971. 218P. UNIV. MICROFILMS ORDER NO. 71-30,527.
N72-26553, 1972

- 350 72 054 THEARD LP
ELECTRON-ION COLLISION STUDIES WITH SUPERIMPOSED BEAMS
PP 875-80 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS.
BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 350 72 055 TISONE GC
LOW RESOLUTION STUDY OF THE INELASTIC CONTINUUM OF N₂
J. CHEM. PHYS., 56, 108, 1972
- 350 72 056 TRIPATHI DN RAI DK
1. IMPORTANCE OF THE KINETIC ENERGY EXPRESSION FOR THE BOUND ELECTRON IN THE BINARY COLLISION THEORY OF IONIZATION. 2. CROSS SECTION FOR DOUBLE IONIZATION BY ELECTRON IMPACT: LI(+), NA(+), K(+). 3. CROSS SECTIONS FOR IONIZATION OF IONS BY ELECTRON IMPACT
J. PHYS., B, 4, 365, 1971, J. CHEM. PHYS., 55, 1268, 1971, AND J. QUANT. SPECTROSC. RAD. TRANS., 11, 1665, 1971
- 350 72 057 USTINOV VI GRINENKO VA
ISOTOPE EFFECT IN THE ELECTRON BOMBARDMENT OF SULPHUR DIOXIDE MOLECULES
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 935, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1653, 1971
- 350 72 058 VAINSTEIN LA OCHKUR VI RAKHOVSKII VI STEPANOV AM
ABSOLUTE VALUES OF THE ELECTRON IMPACT IONIZATION CROSS SECTIONS FOR MAGNESIUM, CALCIUM, STRONTIUM, AND BARIUM
ZH. EKSP. TEOR. FIZ., 61, 511, 1971 IN RUSSIAN
- 350 72 059 VAN DER WIEL MJ WIEBES G (1) EL-SHERBINI TM (2)
1. MULTIPLE IONIZATION OF HE AND NE BY 10 KEV ELECTRONS AS A FUNCTION OF THE ENERGY LOSS. 2. IONIZATION OF N₂ AND CO BY 10 KEV ELECTRONS AS A FUNCTION OF THE ENERGY. 11. INNER SHELL ELECTRONS
PHYSICA, 54, 411, 1971 AND 59, 453, 1972
- 350 72 060 WALKER KG SAINT JOHN RM
SIMULTANEOUS IONIZATION AND EXCITATION OF NEON BY ELECTRON IMPACT
PHYS. REV., 6A, 240, 1972
- 350 72 061 ZAPESCHNI IP
EXCITATION AND IONIZATION BY ELECTRONS
PP 26-53 OF PHYSICS OF IONIZED GASES. NAVINSEK, B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGOVI, YUGOSLAVIA, CONF-700706, 33 REFERENCES
- 355 72 001 ADAMS NG DEAN AG SMITH D
THERMAL ENERGY REACTIONS OF RARE GAS ATOMIC IONS WITH MOLECULAR OXYGEN AND NITROGEN
J. MASS SPECTRY, ION PHYS., 10, 63, 1972, 38 REFERENCES
- 355 72 002 ARIFOV UA POZHAROV SL CHERNOV IG
1. ION-MOLECULAR CLUSTERIZATION REACTIONS IN WATER VAPOR AT HIGH PRESSURES. 2. ION-MOLECULE REACTIONS IN HYDROGEN AT HIGH PRESSURE. 3. CHARGE EXCHANGE AND TRANSITION REACTIONS OF A HYDROGEN ATOM DURING COLLISIONS OF ARGON IONS WITH WATER MOLECULES
1. HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5, 1-6, 1971. TRANSLATED FROM KHIM. VYS. ENERG., 5, 3-9, 1971. 2. BNL-TR-455. TRANSLATED FOR BROOKHAVEN NATIONAL LAB., UPTON, N.Y., FROM KHIM. VYS. ENERG., 5, 3-9, 1971. 17p. 3. IZV. AKADE. NAUK UZB. SSR, SER. FIZ.-MATE. NAUK, NO. 2, 49-52, 1971 IN RUSSIAN
- 355 72 003 BEAUCHAMP JL CASERIO MC (1) HOLTZ D (2) WOODGATE SD (2)
1. ION-MOLECULE REACTIONS OF 2-BUTANOL BY ION CYCLOTRON RESONANCE SPECTROSCOPY. 2. THERMOCHEMICAL PROPERTIES AND ION-MOLECULE REACTIONS OF ALKYL HALIDES IN GAS PHASE BY ION CYCLOTRON RESONANCE SPECTROSCOPY
JACS, 94, 1638 AND 2798, 1972
- 355 72 004 BENNETT SL FIELD FH
1. REVERSIBLE REACTIONS OF GASEOUS IONS. IV. FURTHER STUDIES ON THE EQUILIBRIUM H₃O(+) + H₂O = H₂O₂(+). 2. REVERSIBLE REACTIONS OF GASEOUS IONS. V. THE METHANE-WATER SYSTEM AT LOW TEMPERATURES. 3. ION-MOLECULE REACTIONS IN ETHANE
JACS, 94, 5186 AND 5188, 1972 AND J. PHYS. CHEM., 76, 3919, 1972
- 355 72 005 BETOWSKI LD SOLOMON JJ PORTER RF
THE PROTON AFFINITY OF BORAZINE
INORG. CHEM., 11, 424, 1972, 11 REFERENCES
- 355 72 006 BLAIR AS HESLIN EJ HARRISON AG
BIMOLECULAR REACTIONS OF TRAPPED IONS. 4. REACTIONS IN GASEOUS ETHANE AND MIXTURES WITH C₂H₂ AND CO₂
JACS, 94, 2935, 1972
- 355 72 007 BLOOM M
ION CYCLOTRON RESONANCE EXPERIMENTS
PP 127-40 OF ATOMIC PHYSICS 2. SANDARS, P.G.H. (ED.). PLENUM PRESS, LONDON, 1971, 24 REFERENCES. FROM 2ND INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, JULY 21, 1970
- 355 72 008 BOHME DK LEE RU YOUNG LB
ACIDITY ORDER OF SELECTED BRONSTED ACIDS IN GAS PHASE AT 300 DEGREES K
JACS, 94, 5153, 1972
- 355 72 009 BOSSE G DING A HENGLEIN A
CHEMICAL REACTION KINEMATICS. 14. ANGULAR AND VELOCITY DISTRIBUTIONS FOR THE REACTION O₂(+) + O₂ = O₂O(+) + O AND THE ISOTOPE EFFECT FOR THE REACTION WITH HD
BER. BUNSENES. PHYS. CHEM., 75, NO. 5, 413, 1971 IN GERMAN
- 355 72 010 BOWERS MT AUE DH ELLEMAN DD
1. EQUILIBRIUM CONSTANTS FOR GAS PHASE IONIC REACTIONS. ACCURATE DETERMINATION OF RELATIVE PROTON AFFINITIES. 2. MECHANISMS OF ION-MOLECULE REACTIONS OF PROPENE AND CYCLOPROPANE
JACS, 93, 4314, 1971 AND 94, 4255, 1972
- 355 72 011 BRIGGS JP YAMDAIGNI R KEBARLE P
INTRINSIC BASICITIES OF AMMONIA METHYLAMINES, ANILINES, AND PYRIDINE FROM GAS PHASE PROTON EXCHANGE EQUILIBRIA
JACS, 94, 5128, 1972
- 355 72 012 CACACE F CIPOLLINI R (2,3) CIRANNI G (2,3) CAROSELLI M (3) GUARINO A (4)
POSSAGNO E (4)
REACTIONS OF H₂SH(+) IONS WITH GASEOUS HYDROCARBONS. 2. METHANE AND ETHANE. 3. CYCLOPROPANE, PROPANE, ISOBUTANE, AND N-BUTANE. 4. CYCLOBUTANE, CYCLOPENTANE, AND CYCLOHEXANE
JACS, 90, 1122 AND 2222, 1968 AND 91, 3131, 1969

- 355 72 013 CACACE F PEREZ G
AROMATIC SUBSTITUTION IN GAS PHASE. 1. REACTION OF HELIUM TRITIIDE MOLECULAR ION WITH
HALOGENOBENZENES
J. CHEM. SOC. B, P2086, 1971
- 355 72 014 CENTER RE
ION-MOLECULE EXPERIMENTS INVOLVING NEGATIVE IONS OF TUNGSTEN AND RHENIUM OXIDES
J. CHEM. PHYS., 56, 371, 1972
- 355 72 015 CHANG C SROKA GJ MEISELS GG
ARRIVAL TIME DISTRIBUTIONS IN HIGH PRESSURE MASS SPECTROMETRY. 2. REACTIONS OF (H.D)3(+) IN
HYDROGEN-DEUTERIUM MIXTURES
J. CHEM. PHYS., 55, 5154, 1971
- 355 72 016 CHONG SL FRANKLIN JL MYERS RA (2)
1. ION-MOLECULE REACTIONS OF CH₄-CD₄ MIXTURES AT HIGH PRESSURES. 2. PROTON AFFINITY OF WATER. 3.
PROTON AFFINITIES OF BENZENE, TOLUENE, AND THE XYLENES
1. J. CHEM. PHYS., 55, 641, 1971. 2. J. CHEM. PHYS., 56, 2427, 1972. AD-730 471, 1971. 15P. 3. JACS,
94, 6630, 1972. AD-736 246, 1971
- 355 72 017 CICHORZ RS
EXCHANGE REACTIONS IN ION SOURCE OF A MASS SPECTROMETER
APPL. SPECTROSC., 26, 104, 1972
- 355 72 018 CLAMPITT R
CLUSTER IONS AND IONS WITH A SHELL STRUCTURE
PP. 231-57 OF PHENOMENA IN IONIZED GASES, 1971. DAVENPORT, P.A. (ED.), DONALD PARSONS AND CO. LTD.,
OXFORD, 1971. 83 REFERENCES. FROM 10TH INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, SEPT. 13, 1971
- 355 72 019 CLEMENTI E POPKIE H
STUDY OF STRUCTURE OF MOLECULAR COMPLEXES. 1. ENERGY SURFACE OF A WATER MOLECULE IN FIELD OF A
LITHIUM POSITIVE ION
CAN. J. PHYS., 57, 1077, 1972
- 355 72 020 CLOW RP FUTRELL JH
ION-MOLECULE REACTIONS IN ISOTOPIC HYDROGEN BY ION CYCLOTRON RESONANCE
J. MASS SPECTRY, ION PHYS., 8, 119, 1972. 37 REFERENCES
- 355 72 021 CONNALLY CM GISLASON EA
EFFECT OF REACTANT INTERNAL ENERGY ON SPECTATOR STRIPPING: APPLICATION TO ION-MOLECULE DYNAMICS
CHEM. PHYS. LETT., 14, 103, 1972
- 355 72 022 COCKS RG BEYNDON JH AST T
STRIPPING REACTIONS OF GASEOUS IONS IN MASS SPECTROMETER
JACS, 94, 1004, 1972
- 355 72 023 DE CORPO JJ MCDUWELL MV SAALFELD FE
INTERMEDIATES IN REACTIONS OF ALKANE AND CYCLOALKANE MOLECULAR IONS WITH WATER VAPOR
J. PHYS. CHEM., 76, 1517, 1972
- 355 72 024 DICKINSON AS ROBERTS RE BERNSTEIN RB
ION-ATOM ASSOCIATION REACTIONS IN RARE GASES
J. PHYS. B, 5, 355, 1972
- 355 72 025 DIDOMENI A HARLAND PW FRANKLIN JL
NEGATIVE ION FORMATION AND NEAGATIVE ION-MOLECULE REACTIONS IN CYCLOPENTADIENE

J. CHEM. PHYS., 56, 5299, 1972
- 355 72 026 DUHAYON C DECROCO D
ANALYSE DES EFFETS DU MILIEU SUR LA REACTION CHIMIQUE. ETUDE CINETIQUE D'UNE REACTION ION-MOLECULE
COMPT. REND., SER. C, 274, 1597, 1972
- 355 72 027 DUNBAR RC SHEN J DLAM GA
ION-MOLECULE REACTIONS OF ETHANE AT LOW ELECTRON ENERGY
J. CHEM. PHYS., 56, 3794, 1972
- 355 72 028 DUNKIN DB MCFARLAND M FEHSENFELD FC FERGUSON EE
RATE CONSTANTS FOR THE REACTION O(+) WITH NO, N₂O, AND NO₂
J. GEOPHYS. RES., 76, 3820, 1971
- 355 72 029 ELWOOD TA
1. THE PARA-FLUORO SUBSTITUENT AS AN INERT LABEL IN ORGANIC MASS SPECTROMETRY. 2. ION-MOLECULE
CHEMISTRY OF BUTANE-2,3-DIONE AS ACETYLATED AGENT IN ION CYCLOTRON RESONANCE MASS SPECTROMETRY
THESIS, UNIV. OF NORTH CAROLINA, CHAPEL HILL, UNIV. MICROFILMS ORDER NO. 72-10,715. DISS. ABS., 328,
9, 5072, 1972
- 355 72 030 EWALD H SEIBT W
MASS SPECTROSCOPIC RESEARCHES ON ATOMIC AND MOLECULAR COLLISIONS
PP. 39-59 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, 1970. 51 REFERENCES. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 355 72 031 FEHSENFELD FC FERGUSON EE MOSEMAN M (2)
1. ION-MOLECULE REACTIONS IN AN O₂(+)-H₂O SYSTEM. 2. ION-MOLECULE REACTIONS IN NO(+)-H₂O SYSTEM. 3.
RECENT LABORATORY MEASUREMENTS OF D AND E-REGION ION-NEUTRAL REACTIONS. 4. REACTION NO₂(-) + H =
OH(-) + NO
J. CHEM. PHYS., 55, 2115 AND 2120, 1971, RADIO SCI., 7, 113, 1972, AND PLANET. SPACE SCI., 20, 295,
1972
- 355 72 032 FERGUSON EE
REVIEW OF LABORATORY MEASUREMENTS OF AERONOMIC ION-NEUTRAL REACTIONS
ANN. GEOPHYS., 28, 389, 1972
- 355 72 033 FOSTER MS BEAUCHAMP JL
GAS PHASE ION CHEMISTRY OF AZOMETHANE BY ION CYCLOTRON RESONANCE SPECTROSCOPY
JACS, 94, 2425, 1972
- 355 72 034 FREDRICK SE RATHBURN DW
ION-MOLECULE REACTIONS IN GEIGER-MUELLER DISCHARGES
APPL. SCI. RES. (THE HAUGE), 24A, 209, 1971

- 355 72 035 FULLERTON DC
STATISTICAL MODEL FOR ION-MOLECULE REACTIONS
THESIS, GEORGIA INST. OF TECHNOLOGY, ATLANTA, 1971, 174P. UNIV. MICROFILMS ORDER NO. 71-28,092
- 355 72 036 FULLERTON DC MORAN TF
1. PHASE-SPACE MODEL FOR $\text{He}^{+} + \text{N}_2$ REACTIONS: CONSIDERATION OF DISPERSION AND SHORT RANGE FORCES.
2. CALCULATED ION-MOLECULE REACTIONS OF C^{+} WITH O_2 AND N_2
CHEM. PHYS. LETT., 10, 626, 1971 AND J. MASS SPECTRY, ION PHYS., 9, 15, 1972, 30 REFERENCES
- 355 72 037 GOOD A
CLASSICAL SEMIEMPIRICAL RATE EQUATION FOR THIRD ORDER ION-MOLECULE ASSOCIATION REACTIONS
TRANS. FARADAY SOC., 67, 3495, 1971
- 355 72 038 GROSS ML LIN P (1) FRANKLIN SJ (1)
1. ANALYTICAL APPLICATIONS OF ION-MOLECULE REACTIONS. IDENTIFICATION OF C_3H_6 ISOMERS BY ION
CYCLOTRON RESONANCE SPECTROMETRY. 2. AN ION CYCLOTRON RESONANCE STUDY OF THE STRUCTURE OF C_3H_6^{+}
AND THE MECHANISM OF ITS REACTION WITH AMMONIA
ANAL. CHEM., 44, 974, 1972 AND JACS, 94, 3744, 1972
- 355 72 039 HARRISON AG MCASKILL NA
ION-MOLECULE REACTIONS IN METHYLENE FLUORIDE
AUSTRALIAN J. CHEM., 24, 1611, 1971
- 355 72 040 HARRISON L MORUZZI JL
ION MOBILITIES AND ION-MOLECULE REACTION RATES IN OXYGEN
J. PHYS. D., 5, 1239, 1972
- 355 72 041 HASS JR BURSEY MM KINGSTON DG
REKTONIZATION OF A MCCLAFFERTY PRODUCT ION STUDIED BY ION-MOLECULE REACTIVITY
JACS, 94, 5095, 1972
- 355 72 042 HEROD AA HARRISON AG MCASKILL NA
ION-MOLECULE REACTIONS IN METHYL FLUORIDE AND CHLORIDE
CAN. J. CHEM., 49, 2217, 1971
- 355 72 043 HORTON RL
THERMAL ION-MOLECULE REACTIONS IN GASEOUS METHANE-OXYGEN MIXTURES
LBL-114, THESIS, CALIFORNIA UNIV., BERKELEY, AUG., 1971, 192P. LAWRENCE BERKELEY LAB. NTIS
- 355 72 044 HUNTRESS WT
HYDROGEN ATOM SCRAMBLING IN ION-MOLECULE REACTIONS OF METHANE AND ETHYLENE
J. CHEM. PHYS., 56, 5111, 1972
- 355 72 045 HYATT D STANTON L
INFLUENCE OF ROTATIONAL ENERGY ON ION-MOLECULE CROSS SECTIONS: ORTHO AND PARA HYDROGEN AND DEUTERIUM
CHEM. PHYS. LETT., 10, 10, 1971
- 355 72 046 JOHNSON R BIONDI MA BROWN HL (1) MANFRED A (2)
1. REACTIONS OF Na^{+} , K^{+} , AND Ba^{+} IONS WITH O_2 , NO , AND H_2O MOLECULES. 2. REACTION RATES OF
URANIUM IONS AND ATOMS WITH O_2 AND N_2
J. CHEM. PHYS., 55, 186, 1971, AD-729 497 AND NTI-17363, 1971, AND J. CHEM. PHYS., 57, 1975, 1972
- 355 72 047 JOHNSON AV GERARDO JB
ELECTRONIC RECOMBINATION COEFFICIENT OF MOLECULAR HELIUM IONS
PHYS. REV. LETT., 27, 835, 1971
- 355 72 048 KASPER SF FRANKLIN JL
ION-MOLECULE REACTIONS IN THE SYSTEM $\text{CO}_2\text{-CH}_4$
J. CHEM. PHYS., 56, 1156, 1972
- 355 72 049 KELLER GE BEYER RA
 CO_2 CLUSTERING TO K^{+}
AD-720 997, BALLISTIC RESEARCH LABS., ABERDEEN PROVING GROUND, MARYLAND, 48P
- 355 72 050 KLOTZ HD DROST H
ION-MOLECULE REACTIONS AND THE HAMMETT EQUATION
ORG. MASS SPECTRY, 6, 647, 1972
- 355 72 051 KRAMER HL HERCE JA MUSCHLITZ EE
FORMATION AND COLLISIONAL DISSOCIATION OF HETERONUCLEAR RARE GAS ASSOCIATIVE IONS
J. CHEM. PHYS., 56, 4166, 1972
- 355 72 052 KRAMER JM DUNBAR RC
GAS PHASE PROTON INDUCED ION-MOLECULE REACTION STUDIED BY ION CYCLOTRON RESONANCE SPECTROSCOPY
JACS, 94, 4346, 1972
- 355 72 053 LEVENTHAL JJ
EXPERIMENTAL INVESTIGATION OF ENERGETICS OF ION-MOLECULE REACTIONS OF GROUND STATE C^{+} IONS WITH N_2
AND O_2
J. CHEM. PHYS., 55, 4654, 1971
- 355 72 054 LIEDER CA WIEN RM MCIVER RT
ION-MOLECULE COLLISION FREQUENCIES IN GASES DETERMINED BY PHASE COHERENT PULSED ICR
J. CHEM. PHYS., 56, 5184, 1972
- 355 72 055 LINDEMANN E ROZETT RW KOSKI WS
REACTIONS OF C^{+} WITH ETHANE, ETHYLENE, AND ACETYLENE
J. CHEM. PHYS., 57, 803, 1972, COD-3283-1, JOHN HOPKINS UNIV., BALTIMORE, MD., DEPT. OF CHEMISTRY,
1971, 19P. NTIS
- 355 72 056 MACNEIL KAG FUTRELL JH
ION-MOLECULE REACTIONS IN GASEOUS ACETONE
J. PHYS. CHEM., 76, 409, 1972
- 355 72 057 MAIER WB
REACTIONS BETWEEN N_2^{+} AND $\text{N}_2(\text{STAR})$
J. CHEM. PHYS., 55, 2699, 1971
- 355 72 058 MCALLISTER T
ION CYCLOTRON DOUBLE RESONANCE OF ION-MOLECULE REACTIONS IN ETHANE
J. CHEM. PHYS., 56, 5192, 1972

- 355 72 059 MCIVER RT DUNBAR RC
PULSED ION CYCLOTRON DOUBLE RESONANCE FOR THE STUDY OF ION-MOLECULE REACTIONS
J. MASS SPECTRY, ION PHYS., 7, 471, 1971, 20 REFERENCES
- 355 72 060 MELTON CE NEECE GA
RATE CONSTANTS AND CROSS SECTIONS FOR THE PRODUCTION OF OH(-) FROM O(-) AND H(-) IN WATER
JACS, 93, 6757, 1971
- 355 72 061 MICHALSKA K WINCEL H
ION-MOLECULE REACTIONS IN ETHYL ALCOHOL
INR-1311, INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND, 1971, 18P IN POLISH, NTIS
- 355 72 062 MIZUNO J CHEN JCY
REARRANGEMENT ION-MOLECULE REACTIONS INVOLVING NEGATIVE IONS
AD-731 637, CALIF. UNIV., SAN DIEGO-LA JOLLA, INST. FOR PURE AND APPLIED PHYSICAL SCIENCES, 6P
- 355 72 063 MORAN TF FULLERTON DC
ROTATIONAL EXCITATION OF ION-MOLECULE REACTION PRODUCTS: COMPARISON OF THE STATISTICAL PHASE-SPACE
MODEL WITH EXPERIMENT
J. CHEM. PHYS., 56, 21, 1972
- 355 72 064 MULLER J FENDERL K
ION-MOLEKUL REAKTIONEN METALLORGANISCHER KOMPLEXE, 2. SEKUNDAR-IONEN IN DEN MASSENSPEKTREN VON
ORGANOCHROM-KOMPLEXEN, 3. REAKTIONEN DES PI-CYCLOPENTADIENYL-MANGANTRICARBONYL KATIONS MIT
EINFACHEN FLUORVERBINDUNGEN IN DER GASPHASE
CHEM. BER., 104, 2199 AND 2207, 1971
- 355 72 065 NARCISI RS
FORMATION OF CLUSTER IONS IN LABORATORY SOURCES AND IN THE IONOSPHERE
ADVAN. ELECTRON. ELECTRON PHYS., 29, 79-113, 1970, 19 FIGURES AND 44 REFERENCES
- 355 72 066 PARKER JE LEHRLE RS
ION-MOLECULE REACTIONS (REVIEW)
J. MASS SPECTRY, ION PHYS., 7, 421-69, 1971, 325 REFERENCES
- 355 72 067 PARKES DA
ELECTRON ATTACHMENT AND NEGATIVE ION-MOLECULE REACTIONS IN PURE OXYGEN
TRANS. FARADAY SOC., 67, 711, 1971
- 355 72 068 PAYZANT JD YAMAGUCHI R KEBARLE P
HYDRATION OF CN(-), NO2(-), NO3(-), AND OH(-) IN GAS PHASE
CAN. J. CHEM., 49, 3308, 1971
- 355 72 069 PENZHORN RD DARWENT BOB
1. REACTION OF HYDROGEN ATOMS WITH C2H4 AND C2D4, 2. REACTIONS OF H AT H WITH C2D4
J. CHEM. PHYS., 55, 1508 AND 4148, 1971
- 355 72 070 PIPANO A KAUFMAN JJ
AB INITIO CALCULATION OF POTENTIAL ENERGY CURVES FOR ION-MOLECULE REACTION O(+) + N2 = NO(+) + N
J. CHEM. PHYS., 56, 5258, 1972
- 355 72 071 POTAPOV VK IUSHAPOV OA KHAFAZOV K
DISSOCIATIVE IONIZATION AND ION-MOLECULAR REACTIONS OF AZIRIDINES
DOKL. AKADE. NAUK SSSR, 203, 379, 1972 IN RUSSIAN
- 355 72 072 QUICKERT KA
- RELATIVE RATES OF ISOTOPIC HYDROGEN ATOM-MOLECULE REACTIONS
THESES, UNIV. OF TORONTO, TORONTO, 1969, NATIONAL LIBRARY OF CANADA, OTTAWA
- 355 72 073 RHYNE TC DILLARD JG
REACTIONS OF GASEOUS INORGANIC NEGATIVE IONS, 3. SF6(-) WITH POF3 AND PSF3
J. MASS SPECTRY, ION PHYS., 7, 371, 1971, 17 REFERENCES
- 355 72 074 RIPIN BH OKABAYASHI M SCHMIDT J VOITSENJA V YOSHIKAWA S
ION-MOLECULAR REACTIONS IN PLASMA CONTAINMENT DEVICES
PHYS. REV. LETT., 28, 138, 1972
- 355 72 075 ROCHE AE SUTTON MM BOHME DK
DETERMINATION OF PROTON AFFINITY FROM KINETICS OF PROTON TRANSFER REACTIONS, 1. RELATIVE PROTON
AFFINITIES
J. CHEM. PHYS., 55, NO. 12, XXX, 1971
- 355 72 076 RUSSELL ME CHUPKA WA
ION-MOLECULE REACTIONS IN ETHANOL BY PHOTOIONIZATION
J. PHYS. CHEM., 75, NO. 25, XXX, 1971
- 355 72 077 RUTHERFORD JA VROOM DA
EFFECT OF METASTABLE O(+) ((2)D) ON REACTIONS OF O(+) WITH NITROGEN MOLECULES
J. CHEM. PHYS., 55, 5622, 1971
- 355 72 078 RYAN KR
IONIC COLLISION PROCESSES IN GASEOUS N2O
J. CHEM. PHYS., 57, 271, 1972
- 355 72 079 SHIGA T YAMAKA H ARAKAWA K SUGIURA T
NEGATIVE ION-MOLECULE REACTION IN NITROETHYLENE
BULL. CHEM. SOC. JAPAN, 45, 2065, 1972
- 355 72 080 SIECK LW AUSLOOS P (1,3) LIAS SG (2) HELLNER L (2)
1. ION-MOLECULE REACTION CHAINS IN ISOBUTENE, 2. PHOTOIONIZATION OF C4H8 ISOMERS, UNIMOLECULAR AND
BIMOLECULAR REACTIONS OF C4H8(+) IONS, 3. PHOTOIONIZATION OF PROPYLENE, CYCLOPROPANE, AND
ETHYLENE, EFFECT OF INTERNAL ENERGY ON BIMOLECULAR REACTIONS OF C2H4(+) AND C3H6(+) IONS
J. CHEM. PHYS., 56, 1010, 1972, AND J. RES. NAT. BUR. STAND., 76A, 115 AND 253, 1972
- 355 72 081 SPEARS KG FEMSENFIELD FC
TERMOLICULAR ASSOCIATION REACTIONS OF MG, CA, AND Ba IONS
J. CHEM. PHYS., 56, 5698, 1972
- 355 72 082 STEPHEN TP WILLIAMS DA
CH AND CH(+) FORMATION IN ION-MOLECULAR REACTIONS
ASTROPHYS. J., 177, NO. 3/2, L141, 1972

- 355 72 083 SU T KEVAN L TIERNAN TO
1. POSITIVE ION-MOLECULE REACTIONS IN PERFLUOROPROPANE. 2. NEGATIVE ION-MOLECULE REACTIONS IN PERFLUOROPROPANE
1. AD-728 542. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD, VA. 22151. 1970. 2. J. PHYS. CHEM., 75. 2534. 1971
- 355 72 084 TIBBALS HF
A COMPUTER SIMULATION STUDY OF ION-MOLECULE REACTIONS IN THE MASS SPECTROMETER
THESIS. UNIV. OF HOUSTON, TEXAS. UNIV. MICROFILMS ORDER NO. 71-1463. DISS. ABS., 31B. 7. 3967. 1971
- 355 72 085 TRUHLAR DG
ENHANCEMENT OF REACTION CROSS SECTIONS OF $\text{He} + \text{H}_2(+) = \text{HeH}(+) + \text{H}$ BY VIBRATIONAL EXCITATION OF $\text{H}_2(+) \rightarrow \text{H}_2(2)$
ACCORDING TO STATISTICAL PHASE-SPACE THEORY
J. CHEM. PHYS., 56. 1481. 1972
- 355 72 086 WANCZEK K LEBERT K HARTMANN H
UNTERSUCHUNG DER ION-MOLEKUL REAKTIONEN DES THIOETHYLFLUORIDS MIT HILFE DER IONEN
CYCLOTRONRESONANZ SPEKTROMETRIE
Z. NATURFORSCH., 27A. 155. 1972
- 355 72 087 WHITE RA LIGHT JC
STATISTICAL THEORY OF BIMOLECULAR EXCHANGE REACTIONS: ANGULAR DISTRIBUTION
J. CHEM. PHYS., 55. 379. 1971
- 355 72 088 WINCEL H
GASEOUS ION-MOLECULE REACTIONS IN MULTIATOMIC SYSTEMS
INR-1338. INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND. 1971. 161P IN POLISH
- 355 72 089 WOLF F
PHYSICS OF LOW ENERGY ION-MOLECULE AND CHARGE TRANSFER REACTIONS - A COMPUTER STUDY
AD-734 793. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD, VA. 22151. 1971
- 355 72 090 YOUNG CE FALCONER WE
WATER CLUSTER IONS: FORMATION AND DECOMPOSITION OF CLUSTER IONS IN OXYGEN-WATER SYSTEM
J. CHEM. PHYS., 57. 918. 1972
- 360 72 001 ABDEL-SALAM FW
1. PROPERTIES OF EDGE FOCUSING BENDING MAGNET SYSTEM. 2. STUDY OF THE PROPERTIES OF MAGNETIC FOCUSING SYSTEMS
UARAE-117 AND 118. 19P AND 30P. ATOMIC ENERGY ESTABLISHMENT, CAIRO, EGYPT. DEPT. OF ACCELERATORS AND PLASMA PHYSICS RESEARCH. 1971. NTIS
- 360 72 002 AFANASEV VP YAVOR SY
FOCUSING AND DEFLECTING FIELDS IMPOSED IN CYLINDRICAL SYSTEMS
ZH. TEKH. FIZ., 42. 320. 1972 IN RUSSIAN
- 360 72 003 AKSELA S
1. ANALYSIS OF THE ENERGY DISTRIBUTION IN CYLINDRICAL ELECTRON SPECTROMETERS. 2. INSTRUMENT FUNCTION OF A CYLINDRICAL ELECTRON ENERGY ANALYZER
REV. SCI. INSTRUM., 42. 810. 1971 AND 43. 1350. 1972
- 360 72 004 ARLT H AU G BAUMGART S
ELEKTROSTATISCHE IONENTRIEBWERKE
UNSCH. WISS. TECH., 71. 983. 1971
- 360 72 005 BAIBURIN VB
CALCULATION OF ELECTRON PATHS IN MULTICAVITY MAGNETRONS WITH CONSIDERATION OF A SPACE CHARGE
RADIOTEKH. ELEKTRON., 17. 645. 1972 IN RUSSIAN
- 360 72 006 BAKISH R
ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY. 4TH INTERNATIONAL CONFERENCE. LOS ANGELES, CALIFORNIA. MAY 10 - 15. 1970
BOOK. ELECTROCHEMICAL SOCIETY, INC., NEW YORK, 1970. 677P. 39 PAPERS. CONF-700546
- 360 72 007 BARANOVA LA QVSYANNIKOVA LP YAVOR SY (1,3)
1. CORRECTION OF ABERRATION IN A QUADRUPOLE-OCUPOLE LENS FOR A WIDE FIELD OF VIEW. 2. CORRECTION OF ABERRATIONS OF A WIDE ANGLE LENS SYSTEM. 3. ASYMMETRIC QUADRUPOLE LENSES
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1040. 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41. 1323. 1971. 2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1730. 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41. 2182. 1971. 3. ZH. TEKH. FIZ., 42. 210. 1972
- 360 72 008 BASARGIN YG
LONGITUDINAL SECOND ORDER ABERRATIONS IN SYMMETRIC DEFLECTING MAGNETO-OPTICAL SYSTEMS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15. 2038. 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40. 2596. 1970
- 360 72 009 BASIN LA BOBYKIN BV DAVYDOVSKII VY KEL'MAN VM
TRANSMISSION OF AN ELECTRON BEAM THROUGH A MAGNETIC PRISM
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1254. 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41. 1591. 1971
- 360 72 010 BAUTZ P BRANDT BA WAGNER H
CARDINAL POINTS AND THE ABERRATION OF A PLANE RETARDING LENS
PP 337-44 OF BMBW-FBK-70-28. MARBURG UNIV., WEST GERMANY. PHYSIKALISCHES INSTITUT. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS. 1970.
- 360 72 011 BERNSTEIN IB
MOTION OF A CHARGED PARTICLE IN A STRONG MAGNETIC FIELD
ADVANCE PLASMA PHYS., 4. 311-33. 1971
- 360 72 012 BHATTACHARYA PK BHISE VM BHIDAY MR
FRINGING FIELD EFFECTS ON ELECTRON TRAJECTORIES FOR A 60 DEGREE DOUBLE FOCUSING SECTOR MAGNET
INDIAN J. PURE APPL. PHYS., 9. 122. 1971
- 360 72 013 BIJWA J HOENDERS BJ
INFLUENCE OF A NONUNIFORM RF FIELD ON ION TRAJECTORIES IN AN CMEGATRON. 1.
J. PHYS. E. 4. 719. 1971

- 360 72 014 BISTER M
USE OF MAGNETIC SECTOR FIELDS WITH CYLINDRICAL SYMMETRY AS ONE-GAP BROAD RANGE SPECTROGRAPHS
NUCL. INSTRUM. METHODS, 94, 271, 1971
- 360 72 015 BITTER M PROCAC
ANALYSIS OF OPTICAL PROPERTIES OF AN ELECTROSTATIC PARALLEL PLATE SPECTROGRAPH FOR RELATIVISTIC
PARTICLES
REV. SCI. INSTRUM., 43, 1125, 1972
- 360 72 016 BLIOKH PV
ELECTRON BEAM ION FOCUSING IN A GAS TRANSVERSE FLOW
RADIOTEKH. ELEKTRON., 16, 2183, 1971 IN RUSSIAN
- 360 72 017 BOERBOOM AJM
1. APPLICATION OF MATRIX CALCULATION IN ION OPTICS. 2. ION OPTICS OF ELECTRIC HEXAPOLE
1. PP 269-77 OF ADVANCES IN MASS SPECTROMETRY, VOL. 5. INSTITUTE OF PETROLEUM, LONDON. 2. J. MASS
SPECTRY, ION PHYS., 8, 475-492, 1972. 2 REFERENCES
- 360 72 018 BOUNIN P
1. EXAMPLES OF THE APPLICATION OF THE FERMAT PRINCIPLE TO THE MAGNETIC SPECTROMETER. 2. IMPROVEMENT
TO THE THIRD ORDER OF THE OPTICAL PROPERTIES OF MAGNETIC SPECTROMETERS
NUCL. INSTRUM. METHODS, 94, 73 AND 77, 1971 IN FRENCH
- 360 72 019 BRODSKII GN YAVOR SY
FOCAL LENGTH OF A TWO DIMENSIONAL LENS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1210, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1550,
1971
- 360 72 020 BROWN KL
FIRST AND SECOND ORDER MATRIX THEORY FOR THE DESIGN OF BEAM TRANSPORT SYSTEMS AND CHARGED PARTICLE
SPECTROMETERS
SLAC-75(REV.2). STANFORD LINEAR ACCELERATOR CENTER, CALIF., AUG. 1971, 117P. NTIS
- 360 72 021 BURN N BENDER LB BROWN PW
HEAVY ION BEAM ACCELERATION ECONOMICS AND METHODS USING LESS ABUNDANT ISOTOPES
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., 19, NO. 2, 239, 1972
- 360 72 022 CHABERT A SARAZIN A
HEAVY ION ACCELERATION
OVL. INFORM. SCI. TECH. (PARIS), 10, 168, 11, 1971 IN FRENCH
- 360 72 023 CHAVET I MENAT M (2)
1. IMPROVED ION OPTICAL GEOMETRY FOR ELECTROMAGNETIC ISOTOPE SEPARATORS. 2. FOCAL PLANE SLOPE OF A
HOMOGENEOUS MAGNETIC SECTOR
1. PP 366-72 OF BMW-FBK-70-28. ISRAEL ATOMIC ENERGY COMMISSION, YAVNE, SOREQ NUCLEAR RESEARCH
CENTER. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND
THE TECHNIQUE OF THEIR APPLICATIONS, 1970. 2. NUCL. INSTRUM. METHODS, 99, 115, 1972. 2 FIGURES
- 360 72 024 CHEDZHEMOV GK
DETERMINING THE WIDTH OF A MASS SPECTROMETER ION BEAM WITH A SYMMETRIC ANALYZER
PRIB. TEKH. EKSP., NO. 3, 158, 1972 IN RUSSIAN
- 360 72 025 CSORBA IP
MODULATION TRANSFER FUNCTION CALCULATION OF ELECTROSTATIC LENSES
R.C.A. REV., 33, NO. 2, 393, 1972
- 360 72 026 DAS S SARMA N
1. ION OPTICS OF A SPLIT POLE MAGNETIC SPECTROGRAPH BY METHOD OF RAY TRACING. 2. RAY TRACING
CALCULATIONS ON A SPLIT POLE MAGNETIC SPECTROGRAPH
1. PP 661-4 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, VOL. II,
DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1970. FROM SYMPOSIUM, MADURAI, INDIA, DEC. 27, 1970.
CONF-701219(VOL.2). 2. NUCL. INSTRUM. METHODS, 95, 213, 1971
- 360 72 027 DE CELLES M
PLANE MOTION IN A CENTRAL LOGARITHMIC POTENTIAL: ANALYTICAL PROPERTIES OF THE ORBIT
CAN. J. PHYS., 48, 2192, 1970 IN FRENCH
- 360 72 028 DUGAN JV PALMER RW
ION-QUADRUPOLE EFFECT IN ION-MOLECULE COLLISIONS
CHEM. PHYS. LETT., 13, 144, 1972, N71-32365, 1971
- 360 72 029 EL-KAREH AB STURANS MA
ANALYSIS OF 3-TUBE ASYMMETRICAL ELECTROSTATIC UNIPOTENTIAL LENS
J. APPL. PHYS., 42, 4902, 1971
- 360 72 030 EMELEUS KG PAK TS
ION OSCILLATIONS IN A COLD POSITIVE-ION ELECTRON-BEAM THERMAL ELECTRON PLASMA
ELECTRON. LETT., 7, NO. 13, 358, 1971
- 360 72 031 ENGE HA
ACCELERATOR TUBE ELECTRODE FOR FOCUSING A BEAM OF CHARGED PARTICLES
UNITED STATES PATENT 3,629,676, DEC. 21, 1971. TO DELTARAY CORP., FILED MAY 21, 1970
- 360 72 032 FATU C HANGANUT M JALOBEAU M
NUMERICAL METHOD FOR STUDYING THE OPTICS OF THE ELECTROMAGNETIC ISOTOPE SEPARATORS WITH AXIALLY
SYMMETRIC MAGNETIC FIELD
PP 345-65 OF BMW-FBK-28. ACADEMIA R.S.R., CLUJ, INSTITUTUL DE FIZICA ATOMICA. FROM PROCEEDINGS OF
THE 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR
APPLICATIONS, 1970
- 360 72 033 FIGUEIREDO DIAS MG DA SILVA CM
NOMOGRAM FOR MAGNETIC QUADRUPOLE DOUBLETS
NUCL. INSTRUM. METHODS, 95, 265, 1971
- 360 72 034 FISHKOVA TY
ELECTRON OPTICAL PROPERTIES OF A QUADRUPOLE CONSISTING OF SHORT QUADRUPOLE-SEXTUPOLE LENSES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 843, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1068, 1971
- 360 72 035 FRANK IM
PROBLEMS OF NEUTRON OPTICS
VESTN. AKADE. NAUK SSSR, NO. 12, 13-27, 1971 IN RUSSIAN

- 360 72 036 FREDERIC AR JASPERSE JR GROSSBAR N
ELECTROSTATIC POTENTIAL INSIDE A HEMISPHERE: ITS USE AS AN ELECTRON ENERGY ANALYZER AND AS A TRIODE
ELECTRONIC DEVICE
AD-729 914. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 360 72 037 GALL LN STEPANOV MS
ION OPTIC SYSTEM OF ION SOURCE WITH A DISTRIBUTED REGION OF IONIZATION
ZH. TEKH. FIZ., 42, 421, 1972 IN RUSSIAN
- 360 72 038 GERLACH RL
RETARDING FIELD CYLINDRICAL MIRROR ANALYZER
SC-DC-721302, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, 1971. 15P. CONF-721003-1, FROM 19TH NATIONAL
VACUUM SYMPOSIUM, CHICAGO, ILL., OCT. 2, 1972
- 360 72 039 GHOSAL SN DUTTA NC MITRA NW
ON THE STUDY OF VARIATION OF RESOLVING POWER OF A 90 DEGREE NIER TYPE MASS SPECTROMETER WITH
PRESSURE
INDIAN J. PHYS., 45, NO. 5, 208, 1971
- 360 72 040 GLAVISH HF
NOTE ON WAIST-TO-WAIST TRANSFER IN PARTICLE OPTICS
NUCL. INSTRUM. METHODS, 99, 109, 1972
- 360 72 041 GLIKMAN LG
1. MOTION OF CHARGED PARTICLES IN CERTAIN AXISYMMETRIC ELECTROMAGNETIC FIELDS. 2. FOCUSING
PROPERTIES OF A HOMOGENEOUS MAGNETIC FIELD AND A PERPENDICULAR HYPERBOLOID ELECTRIC FIELD
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1266 AND 1593, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41,
1608 AND 2009, 1971
- 360 72 042 GONCHARE NI SIDORENK IS REVUTSKI EI
SUPERCONDUCTING MAGNETIC QUADRUPOLE LENS
SOV. AT. ENERGY (ENGL. TRANS.), 31, 773, 1971
- 360 72 043 GOTOH M YAGI H
SOLID ANGLE SUBTENDED BY A RECTANGULAR SLIT
NUCL. INSTRUM. METHODS, 96, 485, 1971
- 360 72 044 GUBKIN AN
PROPERTIES OF THE ELECTROSTATIC FIELD OF THE RING ELECTRETS SYSTEM AND THE FEASIBILITY OF USING IT
FOR FOCUSING IN MOLECULAR GENERATORS
ZH. TEKH. FIZ., 42, 864, 1972 IN RUSSIAN
- 360 72 045 HEDDLE DWO
TABLES OF FOCAL PROPERTIES OF THREE-ELEMENT ELECTROSTATIC CYLINDER LENSES
JILA-104, JOINT INST. FOR LAB. ASTROPHYSICS, BOULDER, COLO., OCT. 1970. 81P
- 360 72 046 HOLME AE
INVESTIGATION OF FACTORS DETERMINING MAXIMUM RESOLUTION IN A QUADRUPOLE MASS SPECTROMETER
J. PHYS. E, 5, 429, 1972
- 360 72 047 INOUE M NIURAO K
REMARKS ON THE METHOD FOR MEASURING ION BEAM PROFILES
MASS SPECTRY, JAPAN, 20, 205, 1972 IN ENGLISH
- 360 72 048 ITOH H
- IMPROVEMENT OF PULSE RESPONSE IN COMPUTER CONTROLLED ELECTRON GUN
JAP. J. APPL. PHYS., 11, 417, 1972
- 360 72 049 IVANOVA TI PUSTOVALOV GE
CALCULATION OF THE ION TRAJECTORIES IN A PENNING DISCHARGE
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1646, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 2112,
1970
- 360 72 050 JOHNSTON AD
GEOMETRIC FACTOR OF A CYLINDRICAL PLATE ELECTROSTATIC ANALYZER
REV. SCI. INSTRUM., 43, 1030, 1972. N72-15423, 1971
- 360 72 051 KARETSKAYA SP KEL'MAN VM YAKUSHEV EM
ABERRATIONS OF THREE-ELECTRODE TRANSAXIAL CYLINDRICAL LENSES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 425, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 548, 1971
- 360 72 052 KARTASHEV VP KOTOV VI RZAEV RA
FOCUSING PROPERTIES OF A HELICAL QUADRUPOLE LENS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1535, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 1969,
1970
- 360 72 053 KEL'MAN VM FEDULINA LV YAKUSHEV EM
1. ELECTROSTATIC CYLINDRICAL ELECTRON MIRRORS. 2. DEFLECTION OF PARALLEL CHARGED PARTICLE BEAMS BY A
PLANE ELECTROSTATIC MIRROR. 3. PARAXIAL PROPERTIES AND ABERRATIONS OF A TWO-ELECTRODE CYLINDRICAL
MIRROR. 4. THEORY OF COMBINED CYLINDRICAL ELECTRON MIRRORS. II. COMMUNICATION
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1171, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1489,
1971. 2 AND 3. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1444 AND 1449, 1972. 4. ZH. TEKH. FIZ.,
42, 297, 1972 IN RUSSIAN
- 360 72 054 KITCHING P
REVDOC: A MONTE-CARLO PROGRAM FOR CALCULATING CHARGED PARTICLE TRANSMISSION THROUGH SPECTROMETERS
AND BEAM LINES
TRI-71-2, TRI-UNIV. MESON FACILITY, VANCOUVER, BRITISH COLUMBIA, APR. 1971. 75P. NTIS
- 360 72 055 KNOP RE COLLERAINE AP
CALCULATION OF PARTICLE ORBITS IN A PRECETRON HAVING AN OFFSET TARGET
PARTICLE ACCEL., 2, 301, 1971
- 360 72 056 KONDO T TAYA S OMURA I
SIMULATION OF ION TRAJECTORY IN A QUADRUPOLE MASS FILTER
PP 269-72 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969

- 360 72 057 KURDOKA K SUZUKI T
APERTURE EFFECT OF ELECTROSTATIC LENSES
JAP. J. APPL. PHYS., 11, 1222, 1972
- 360 72 058 KUSIC QL
OPTIMAL DESIGN OF ELECTROSTATIC LENSES USING INTEGRAL EQUATION FIELD METHODS
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. ELECTRON DEVICES, 18, 848, 1971
- 360 72 059 KUYATT CE NATALI S DI CHIO D
ACCURATE CALCULATION OF PROPERTIES OF THE TWO-TUBE ELECTROSTATIC LENS. 3. ABERRATION COEFFICIENTS
REV. SCI. INSTRUM., 43, 84, 1972, COM-72-5051, 1972
- 360 72 060 KUZ'MIN AF
MOTION OF CHARGED PARTICLES IN APPROXIMATELY ORTHOGONAL ELECTRIC AND MAGNETIC FIELDS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 599, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 765, 1971
- 360 72 061 LALL HB
ON RESOLVING POWER OF A THREE-STAGE BENNETT TYPE RADIO-FREQUENCY MASS SPECTROMETER
JAP. J. APPL. PHYS., 10, 1459, 1971
- 360 72 062 LEBEDEV SV
FOCUSING OF CHARGED PARTICLES BY MAGNETIC FIELDS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 423, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 545, 1971
- 360 72 063 LEE-WHITING GE
COMPARISON OF CALCULATED THIRD ORDER ABERRATIONS OF A MAGNETIC QUADRUPOLE LENS
NUCL. INSTRUM. METHODS, 99, 609, 1972
- 360 72 064 LELEYTER M SLODZIAN G
STUDY OF SECOND ORDER ABERRATIONS OF AN IONIC MICROANALYZER AND OTHER SYSTEMS INTENDED TO FILTER
BROAD IMAGES
REV. PHYS. APPL., 6, 65, 1971 IN FRENCH
- 360 72 065 LOUIS RJ
PROPERTIES OF ION ORBITS IN THE CENTRAL REGION OF A CYCLOTRON
TRI-71-1, THESIS, UNIV. OF BRITISH COLUMBIA, VANCOUVER, 1971. NATIONAL LIBRARY OF CANADA, OTTAWA.
TRI-UNIV. RESON FACILITY, VANCOUVER, BRITISH COLUMBIA, OCT. 1971, 141P, NTIS
- 360 72 066 LUBCHIK IN OVSYANNIKOVA LP FISHKOVA TY
FIFTH ORDER SPHERICAL ABERRATION OF A QUADRUPOLE-OCTUPOLE LENS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1724, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41, 2175, 1971
- 360 72 067 MALOV AF
GENERALIZED ORTHOGONAL COORDINATES FOR CHARGED PARTICLE TRAJECTORIES IN AN ELECTROMAGNETIC FIELD
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 191, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 252, 1971
- 360 72 068 MATSUDA H
CHARGED PARTICLE ANALYZER OF MAGNETIC AND ELECTROSTATIC SECTOR TYPE
CHU-KOON KENKYU, 7, NO. 3, 132, 1970 IN JAPANESE
- 360 72 069 MCCORKLE RA BENNETT WH
THIN ELECTROSTATICALLY SELF FOCUSING ELECTRON STREAMS
PLASMA PHYS., 13, NO. 12, XXX, 1971
- 360 72 070 MCMAHON TB BEAUCHAMP JL

DETERMINATION OF ION TRANSIT TIMES IN AN ION CYCLOTRON RESONANCE SPECTROMETER
REV. SCI. INSTRUM., 42, 1632, 1971
- 360 72 071 MEUNIER R
NEW ELECTRODE GEOMETRY FOR THE FORMATION OF DIVERGING IONS BEAMS IN THE PRESENCE OF SPACE CHARGE
PP 331-6 OF BMW-FBK-70-28, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, ORSAY, FRANCE, CENTRE DE
SPECTROMETRIE NUCLEAIRE ET DE SPECTROMETRIE DE MASSE, FROM PROCEEDINGS OF THE 7TH INTERNATIONAL
CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 360 72 072 MEYRAND G
STUDY AND DEVELOPMENT OF QUADRUPOLE FOCUSING LENSES FOR A HELICOIDALLY FOCUSED HEAVY ION
ACCELERATOR
LYCEN-7179, THESIS, LYON UNIV., FRANCE, NOV. 1971, 68P IN FRENCH, INSTITUT DE PHYSIQUE NUCLEAIRE
- 360 72 073 MEZENTSEV AP FEDOROV VL KADYROVA VS
MONOENERGETIC ELECTRON BEAM IN THE FIELD OF A CYLINDRICAL CONDENSER
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1720, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41, 2170, 1971
- 360 72 074 NAKAI A
THIRD ORDER ABERRATIONS IN THE MAGNETIC SECTOR FIELD
DENKI SHIKENSHU, 35, 727, 1971 IN JAPANESE
- 360 72 075 NATALI S DI CHIO D UVA E KUYATT C
ACCURATE CALCULATION OF PROPERTIES OF THE TWO-TUBE ELECTROSTATIC LENS. 2. FIRST ORDER FOCAL
PROPERTIES AND FOCUS CURVES
REV. SCI. INSTRUM., 43, 80, 1972, COM-72-5048, 1972
- 360 72 076 OVSYANNIKOVA LP YAVOR SY (1,2) UOTCHKIN BA (3) FISHKOVA TY (3)
1. EFFECT OF FRINGE FIELDS ON ABERRATIONS OF QUADRUPOLE LENSES. 2. ABERRATIONS IN SUPERPOSED
MAGNETIC QUADRUPOLE AND DEFLECTING FIELDS. 3. QUADRUPOLE LENSES APPLICATION FOR SIMULTANEOUS BEAM
FOCUSING AND BEAM DEFLECTION IN OSCILLATORS
1,2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 803, 1971 AND 16, 1213, 1972. TRANSLATED FROM ZH.
TEKH. FIZ., 41, 1023 AND 1544, 1971. 3. RADIOTEKH. ELEKTRON., 17, 1062, 1972
- 360 72 077 PASECHNI LL POPOVICH AS NAUMOVET VG
DIRECT MEASUREMENTS OF INDEPENDENT DIFFUSION OF PLASMA IONS AND ELECTRONS ACROSS MAGNETIC FIELD IN
RESTRICTED CONDUCTING CYLINDER
ATOM. ENERG. USSR, 31, NO. 3, XXX, 1971 IN RUSSIAN
- 360 72 078 PAVLENKO YG DEMENT'EV AS
WAVE FUNCTION OF A CHARGED PARTICLE IN CROSSED ELECTROSTATIC AND ALTERNATING MAGNETIC FIELDS
IZV. VYSSEK. UKHEB. ZAVED., FIZ., NO. 3, 152, 1971 IN RUSSIAN

- 360 72 079 PERRIER P CARRICAB B
CYLINDRICAL ELECTROSTATIC SECTOR WITH A DEFLECTION ANGLE OF $\pi/2$ SQUARE ROOT OF 2 FOR ELECTRON
ENERGY ANALYSIS
REV. PHYS. APPL., 7, 61, 1972
- 360 72 080 POPRYADUKHIN AP
EFFECT OF AN ELECTRIC FIELD ON THE MOTION OF PARTICLES IN HELICAL FIELDS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1435, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 1839,
1970
- 360 72 081 READ FH ADAMS A (2) SOTO MO (2)
1. 'ZERO GAP' ELECTROSTATIC APERTURE LENSES. 2. ELECTROSTATIC CYLINDER LENSES. 1. TWO ELEMENT LENSES
J. PHYS. E, 4, 562 AND 625, 1971
- 360 72 082 REGNAUT C
IMPROVEMENTS TO THE PLANAR ELECTROSTATIC ANALYZER FOR SLOW ELECTRONS
FRNC-TH-54. THESIS, PARIS UNIV., FRANCE, 1970. 97P IN FRENCH
- 360 72 083 REISER M
FIRST ORDER THEORY OF ELECTRICAL FOCUSING IN CYCLOTRON TYPE TWO DIMENSIONAL LENSES WITH STATIC AND
TIME VARYING POTENTIALS
J. APPL. PHYS., 42, 4128, 1971
- 360 72 084 REY WHETTEN N
MACROSCOPIC PARTICLE MOTION IN QUADRUPOLE FIELDS
J. VAC. SCI. TECHNOL., 9, 486, 1972
- 360 72 085 RICHARD JL
STUDIES OF SYMMETRIES OF A PARTICLE IN AN ELECTROMAGNETIC FIELD
FRNC-TH-52. THESIS, AIX-MARSEILLES UNIV., FRANCE, 1970. 149P IN FRENCH. NTIS
- 360 72 086 RICHARDS JA
ON THE TIME VARYING POTENTIAL IN THE QUADRUPOLE MASS SPECTROMETER
PROC. INST. RADIO ELECTRON. ENG. AUSTRALIA, 32, NO. 8, 321, 1971
- 360 72 087 ROY D DE CELLES M CARETTE JD
INFLUENCE OF THE SLIT LENGTH ON THE RESOLUTION OF PLANE AND CYLINDRICAL ELECTROSTATIC SPECTROMETERS
REV. PHYS. APPL., 6, 51, 1971 IN FRENCH
- 360 72 088 RUSHTON GJ FITCH RK
PERFORMANCE OF THE TWIN WIRE ELECTROSTATIC CHARGED PARTICLE OSCILLATOR
VACUUM, 21, 445, 1971
- 360 72 089 SAKAI T INO Y
AN IMPROVED METHOD OF THE RESOLUTION FOR QUADRUPOLE MASS SPECTROMETERS
MASS SPECTRY, JAPAN, 19, 102, 1971 IN ENGLISH
- 360 72 090 SANNA G
OPTICS OF THE MAGNETIC SPECTROMETER IN APPROXIMATIONS OF THE FIRST AND SECOND ORDERS. 1. THE
DIFFERENTIAL EQUATION OF THE TRAJECTORY IN PRECISE FORM
LNF-71/81. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, FRASCATI, ITALY. LABORATORI NAZIONALI DI
FRASCATI, NOV. 1971. 16P IN ITALIAN. NTIS
- 360 72 091 SAR-EL HZ
CYLINDRICAL MIRROR ANALYZER WITH SURFACE ENTRANCE AND EXIT SLCTS. 1. NONRELATIVISTIC PART. 2.
RELATIVISTIC PART

REV. SCI. INSTRUM., 42, 1601, 1971 AND 43, 259, 1972
- 360 72 092 SCHEARER LD
POLARISATION OF IONS AND ELECTRONS BY OPTICAL-PUMPING TECHNIQUES
PP 87-104 OF ATOMIC PHYSICS 2. SANDARS, P.G.M. (ED.), PLENUM PRESS, LONDON, 1971. FROM 2ND
INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, JULY 21, 1970. 19 REFERENCES
- 360 72 093 SEN GUPTA ND
MOTION OF A CHARGED PARTICLE IN A UNIFORM ELECTRIC FIELD WITH RADIATION REACTION
INT. J. THEOR. PHYS., 4, NO. 3, 179, 1971
- 360 72 094 SHARP TE EYLER JR LIE
TRAPPED-ION MOTION IN ION CYCLOTRON RESONANCE SPECTROSCOPY
J. MASS SPECTRY, ION PHYS., 9, 421-439, 1972. 29 REFERENCES
- 360 72 095 STEFFEN KG
SELECTED TOPICS OF BEAM OPTICS RELEVANT TO STORAGE RING DESIGN
REND. SCU. INT. FIS. ENRICO FERMI, 46, 412-52, 1971
- 360 72 096 STRASHKE AM STRASHKE MA
TRAJECTORIES OF DIPOLE PARTICLES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 2066, 1972
- 360 72 097 SUAREZ AA MAZZILLI E COUTINHO FAB
BEAM OPTICS STUDIES USING THE MONTE-CARLO METHOD
AN. ACAD. BRAS IL. CIENC., 43, NO. 2, 345, 1971
- 360 72 098 TAYA S MATSUDA H
1. THIRD ORDER TRANSFER MATRICES FOR THE FRINGING FIELDS OF AN ELECTROSTATIC HEXAPOLE LENS. 2. A
THIRD ORDER TRANSFER OF AN ELECTROSTATIC HEXAPOLE LENS
MASS SPECTRY, JAPAN, 19, 266, 1971 IN ENGLISH AND J. MASS SPECTRY, ION PHYS., 9, 235, 1972. 7
REFERENCES
- 360 72 099 THOMSON MG
PRIMARY ABERRATIONS OF A QUADRUPOLE CORRECTOR SYSTEM
OPTIK, 34, 528, 1972
- 360 72 100 THORNLEY RFM
RECORD OF THE 11TH SYMPOSIUM ON ELECTRON, ION, AND LASER BEAM TECHNOLOGY. CONFERENCE HELD AT
BOULDER, COLORADO, MAY 12 - 14, 1971
BOOK, IEEE CATALOG NO. 71 C 23-ED. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC., NEW
YORK, 1971. 703P. CONF-710542. SAN FRANCISCO PRESS, INC.

- 360 72 101 VAN WAKEREN JHA HOPMAN HJ
TRAPPING OF ELECTRONS IN LARGE AMPLITUDE ELECTROSTATIC FIELDS RESULTING FROM BEAM-PLASMA INTERACTION
PHYS. REV. LETT., 28, 5, JAN. 31, 1971
- 360 72 102 VOLKOV TF
MOTION OF CHARGED PARTICLES IN A MULTIPLE-LENS ACCELERATOR
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 988, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1257, 1971
- 360 72 103 VORDNIN VS LEBEDEV AN
SELF-CONSISTENT MODEL OF A TUBULAR FLOW OF ELECTRONS
SC-T-722497. TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO, FROM KRATK. SOOBSHCH. FIZ., NO. 5, 39, 1971. 10P
- 360 72 104 WHITEHEAD TW
ION OPTICS OF A THREE-STAGE INHOMOGENEOUS MAGNETIC FIELD ISOTYPE SEPARATOR
THESIS. RENSSELAER POLYTECHNIC INST., TROY, N.Y., 1970. 255P. UNIV. MICROFILMS ORDER NO. 71-3936
- 360 72 105 WOLLNIK H
HIGH RESOLVING PARTICLE SPECTROMETERS OF LARGE TRANSMISSION
PP 169-74 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 6, 1969
- 360 72 106 YAVOR SY OVSYANNIKOVA LP (2) BARANOVA LA (2)
1. IMAGE DISTORTION BY MULTIPOLE LENSES. 2. CORRECTION OF GEOMETRICAL ABERRATIONS IN ELECTRON-OPTICAL SYSTEMS BY OCTUPOLES
RADIO ENG. ELECTRON. PHYS. USSR (ENGL. TRANS.), 16, 1797, 1971 AND NUCL. INSTRUM. METHODS, 99, 103, 1972
- 360 72 107 YOKOTA H KISHI T
HYPERBOLIC TWO-DIMENSIONAL ELECTROSTATIC LENS WITH APERTURE
ELEC. ENG. JAPAN, 90, NO. 6, 265, 1970
- 360 72 108 YOUSSEF EA VERMEULEN FE CHUTE FS
IMAGING PROPERTIES OF A NOVEL ELECTROSTATIC LENS
CAN. J. PHYS., 49, 2651, 1971
- 360 72 109 ZASHKVARA VV
1. FOCUSING OF A BEAM OF CHARGED PARTICLES WITH FINITE ANGULAR DIVERGENCE IN A CYLINDRICAL MIRROR ELECTROSTATIC ANALYZER. 2. IMAGE OF AN EXTRA-ACIAL POINT SOURCE IN ELECTROSTATIC ANALYZER OF CYLINDRICAL MIRROR TYPE
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 146, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 193, 1971. 2. ZH. TEKH. FIZ., 42, 981, 1972
- 360 72 110 ZIMMERMANN B
BROADENED ENERGY DISTRIBUTIONS IN ELECTRON BEAMS
ADVANCE ELECTRON. ELECTRON PHYS., 29, 257-312, 1970. 9 FIGURES, 5 TABLES, 49 REFERENCES
- 360 72 111 ZUBKOV IP KISLOV AY LEBEDEV SV (1) MROZOV AI
1. MOVEMENT OF IONS IN A DOUBLE LENS ACCELERATOR WITH 'CLOSED' ELECTRON DRIFT. 2. ION FLOW IN A DOUBLE LENS ACCELERATOR
1. IAE-2055. INSTITUT ATOMNOI ENERGII, MOSCOW, 1970. 12P. 2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 695, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 880, 1971
- 365 72 001 BERGE L JALENQUES P
IMPROVEMENTS TO ION PUMPS
FRENCH PATENT 2,041,373, JAN. 18, 1971. FILED APRIL 22, 1969. IN FRENCH
- 365 72 002 BOUDART M WILLIAMS F FRENNET A
BACKSTREAMING OF HYDROGEN WHEN PUMPING HYDROCARBONS WITH AN ION PUMP
J. VAC. SCI. TECHNOL., 9, 362, 1972
- 365 72 003 FOUARGE J DELPORTE R
INTERACTIONS OF GE(LI) DETECTORS AND ION PUMPS. 1. OBSERVED PHENOMENA
NUCL. INSTRUM. METHODS, 99, 81, 1972 IN FRENCH
- 365 72 004 PREVOT F SLEDZIEWSKI Z ROQUESSALANE R (2) AUBRY B (3) DELAFOSSE J (3)
1. ULTRA VACUUM PRODUCTION BY DEPOSITING TITANIUM ON A COLD SURFACE. I. SCIENTIFIC BASE. II. TECHNOLOGY AND APPLICATION. 2. NEW LOW TEMPERATURE GETTER: TITANIUM MONOXIDE. 3. LARGE TI SUBLIMATION PUMP
1. UCRL-TRANS-10584. TRANSLATED FOR UNIV. OF CALIF. LAWRENCE LIVERMORE LAB., LIVERMORE, FROM VIDE. 23, NO. 133, 1-14, 1968. 25P. 2. UCRL-TRANS-10585. TRANSLATED FROM VIDE. 25, NO. 145, 1-6, 1970. 15P. 3. VIDE. 26, NO. 153, 91-4, 1971 IN FRENCH
- 365 72 005 PREVOT F SLEDZIEWSKI Z
TITANIUM EVAPORATION PUMP: ITS APPLICATION TO NUCLEAR FUSION EXPERIMENTS AND SPACE SIMULATION
1. CEA-CONF-1858. COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES NUCLEAIRES, 1970. 32P. CONF-711005-4. FROM INTERNATIONAL CONFERENCE ON SOLID SURFACES, BOSTON, MASS., OCT. 11, 1971. AND 2. J. VAC. SCI. TECHNOL., 9, 49-54, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 365 72 006 RABINOWITZ M GARWIN EL
METHOD OF OPERATING AN ION-GETTER VACUUM PUMP WITH GUN AND GRID STRUCTURE ARRANGED FOR OPTIMUM IONIZATION AND SUBLIMATION
UNITED STATES PATENT 3,588,593, JUNE 28, 1971. TO UNITED STATES ATOMIC ENERGY COMMISSION. FILED MARCH 27, 1969
- 365 72 007 SCHWARZ M
QUADRUPOLE ION PUMP PERFORMANCE CHARACTERISTICS
J. VAC. SCI. TECHNOL., 9, 373, 1972
- 365 72 008 TOM T
USE OF A METALLIC ION SOURCE IN COLD CATHODE SPUTTER ION PUMPS
J. VAC. SCI. TECHNOL., 9, 383, 1972
- 370 72 001 ABDELAZI ME MORSY MW HASSAN ZM
PROPOSED MULTIPLY CHARGED ION SOURCE
IEEE INST. ELEC. ELECTRON. ENG., TRANS. NUCL. SCI., NS-19, NO. 2, 132, 1972
- 370 72 002 ABRDYN MA KUZNETSOV VS KUZNETSOVA NP FIDEL'SKAYA RP
EFFECT OF SAMPLING CONDITIONS OF AN ION SOURCE ON THE PHASE-DENSITY DISTRIBUTIONS IN THE INTENSITY OF THE ION BEAM
NP-19084. SCIENTIFIC RESEARCH INST. OF ELECTRO-PHYSICAL APPARATUS, Leningrad, USSR, 1970. 8P IN RUSSIAN, NTIS

- 370 72 003 ABROYAN MA NALIVAIA GA TSEPAKIN SG
PULSED SOURCE OF NEGATIVE HYDROGEN IONS
ZH. TEKH. FIZ., 42, 876, 1972
- 370 72 004 AKOPYAN ME
PHOTOIONISATION SOURCE OF IONS FOR INVESTIGATION OF DIFFICULTLY VOLATILE SUBSTANCES IN THE MASS
SPECTROMETER
PRIB. TEKH. EKSP., NO. 5, 164, 1972 IN RUSSIAN
- 370 72 005 ALBERTIN BI KURITSYN IV NIKONOV OF
HIGH VOLTAGE SOURCE FOR ION AND ELECTRON ACCELERATORS AT 2 MEVS
PRIB. TEKH. EKSP., NO. 3, 43, 1971 IN RUSSIAN
- 370 72 006 ALEXEFF I JONES WD
PRODUCTION OF HIGHLY STRIPPED HEAVY IONS IN HOT ELECTRON PLASMAS PRODUCED BY AN ELECTRON BEAM
CONF-711021-2, OAK RIDGE NATIONAL LAB., TENN., 1970, 11P. FROM INTERNATIONAL CONFERENCE ON
MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971
- 370 72 007 ALLISON PW EMIGH CR
LAMPE H(-) ION SOURCE DEVELOPMENT
LA-DC-13014, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1971, 3P. CONF-711012-1, FROM SYMPOSIUM ON ION
SOURCES AND FORMATION OF ION BEAMS, UPTON, NEW YORK, OCT. 15, 1971
- 370 72 008 ALLISON RW RICHTER RM ZAJEC E
EMISSION MEASUREMENTS ON AN ABERRATED CYLINDRICALLY SYMMETRICAL PROTON BEAM
LBL-307, CALIF. UNIV., BERKELEY, LAWRENCE BERKELEY LAB., AUG. 1971, 4P. CONF-711012-12, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, NEW YORK, OCT. 19, 1971
- 370 72 009 ANDELFINGER C BUECHL K BUCHELT E OTT W SILLER G
INVESTIGATION OF A LASER IRRADIATED ELECTRON SOURCE
PP 3-7 OF ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY, BAKISH, R. (ED.), ELECTROCHEMICAL SOCIETY,
INC., NEW YORK, 1970, FROM 4TH INTERNATIONAL CONFERENCE, LOS ANGELES, CALIF., MAY 10, 1970
- 370 72 010 ANUFRIEN VB DEVKIN BV MOROKA VI
PULSED SOURCE OF IONS OF NANOSECOND DURATION
PRIB. TEKH. EKSP., NO. 3, 46, 1971
- 370 72 011 ARATANI M SAITO N
MASS SPECTROMETRY USING RADIOISOTOPES AS AN ION SOURCE
MASS SPECTRY, JAPAN, 19, 195, 1971 IN JAPANESE
- 370 72 012 ARIANER J BAIXAS J BARON E LIEBE A SERAFINI A
TON-THAT T
HEAVY ION SOURCE WITH A CONFINED ELECTRON BEAM
FRNC-CONF-56, PARIS UNIV., ORSAY, FRANCE, INSTITUT DE PHYSIQUE NUCLEAIRE, 1972, 6P IN FRENCH,
CONF-720120-7, FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, JAN. 29, 1972
- 370 72 013 ARIKAWA T MOCHIZUKI T MIYAMOTO G
LOW ENERGY ION SOURCE FOR CHEMICAL REACTIONS
MASS SPECTRY, JAPAN, 20, 11, 1972 IN ENGLISH
- 370 72 014 AYUKHAND AK CHERNENK VN
SOURCE OF NEGATIVE IONS
PRIB. TEKH. EKSP., NO. 2, 150, 1972
- 370 72 015 BAJARD M CHABERT A DROC M
- PRODUCTION OF MULTICHARGED IONS FROM A REFLEX SOURCE WITH AXIAL EXTRACTION
REV. ROUM. PHYS., 16, NO. 2, 165, 1971 IN FRENCH
- 370 72 016 BAKER WR EHLERS KW KUNKEL WB LIETZKE AF
LARGE-AREA HIGH-CURRENT ION SOURCE
LBL-35, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., AUG. 1971, 5P. CONF-711012-10, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 017 BAUMANN H HEINICKE E BETHGE K
PENNING ION SOURCE FOR MULTIPLY CHARGED IONS
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 88, 1972
- 370 72 018 BECKER R KLEIN H SCHMIDT W
ELECTRON BEAM ION SOURCE AND SOME POSSIBILITIES FOR IMPROVEMENT
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 125, 1972, FROM INTERNATIONAL CONFERENCE ON MULTIPLY CHARGED
HEAVY ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971, CONF-711021, 0
FIGURES
- 370 72 019 BEGGS D VESTAL WL FALES HW
CHEMICAL IONIZATION MASS SPECTROMETER SOURCE
REV. SCI. INSTRUM., 42, 1578, 1971
- 370 72 020 BELL WA VEACH AM
CANTED MAGNETIC FIELD FOR CALUTRON ION SOURCE
UNITED STATES PATENT 3,610,923, OCT. 5, 1971, TO UNITED STATES ATOMIC ENERGY COMMISSION, FILED DEC.
17, 1969
- 370 72 021 BENJAMIN JA DIENER JJ GLASOE GN
TERMINAL ION SOURCE SYSTEM FOR BROOKHAVEN THREE STAGE TANDEM FACILITY
IEEE TRANS. NUCL. SCI., NS-18, NO. 3, 118, 1971
- 370 72 022 BENNETT JRJ
1. HIGH CHARGE STATE HEAVY ION SOURCES, 2. REVIEW OF PIG SOURCES FOR MULTIPLY CHARGED HEAVY IONS
1. IEEE TRANS. NUCL. SCI., NS-18, NO. 3, 55, 1971, FROM NATIONAL PARTICLE ACCELERATOR CONFERENCE,
CHICAGO, ILL., MARCH 1, 1971, CONF-710308, 2. IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 48, 1972
- 370 72 023 BERKNER KH COOPER WB PYLE RV
MULTIPLE APERTURE EXTRACTOR DESIGN FOR PRODUCING INTENSE ION AND NEUTRAL BEAMS
LBL-327, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., AUG. 1971, 2P. CONF-711012-11, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 024 BEX L FAURE J VIENET R
ION SOURCE WITH A UNIFORM RADIAL DENSITY
FRENCH PATENT 2,061,809, JUNE 1, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, FILED APRIL 4, 1969, IN
FRENCH

- 370 72 025 BIETH C BOURGARE MP CABRESPI A
NEW HEAVY ION SOURCE AND RECENT PERFORMANCE OF ALICE
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 93, 1972
- 370 72 026 BLIMAN S GELLER R HESS W (2) JACQUOT B (2) JACQUOT C (2)
1. MULTIPLY CHARGED ION SOURCE. DESIGN OF ELECTRON CYROMAGNETIC RESONANCE SOURCE. 2. HIGH INTENSITY
E.C.R. STRIPPED ION SOURCE
1. EUR-CEA-FC-603, COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES
NUCLEAIRES, JUNE 1971, 29P IN FRENCH, NTIS, 2. IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 200, 1972 AND
CEA-CONF-1879, COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE, 1971, 11P, CONF-711021-5, FROM
INTERNATIONAL CONFERENCE ON MULTIPLY CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG,
TENN., OCT. 25, 1971
- 370 72 027 BODIZS D KOLTAY E SZALAY A
NEUTRAL ATOM COMPONENT OF HIGH FREQUENCY ION SOURCE BEAM
NUCL. INSTRUM. METHODS, 94, 537, 1971
- 370 72 028 BOSSEL U
MOLECULAR BEAM EXTRACTION FROM EQUILIBRIUM GAS FLOWS
AIAA (AMER. INST. AERONAUT. ASTRONAUT.) J., 9, 2060, 1971, AD-738 641, 1971
- 370 72 029 BUEHLER D VOINOV M TANNENBERGER H
LOW INTENSITY VERSATILE LABORATORY ION SOURCE
VACUUM, 22, NO. 2, 61, 1972
- 370 72 030 BYERS DC READEH PU
OPERATION OF AN ELECTRON BOMBARDMENT ION SOURCE USING VARIOUS GASES
NTI-24699, 1971 AND NTI-13745, 1971, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF
COMMERCE, SPRINGFIELD, VA, 22151
- 370 72 031 CENTER RE
SOURCE FOR NEGATIVE IONS OF REFRACTORY METAL OXIDES
REV. SCI. INSTRUM., 43, 115, 1972
- 370 72 032 CESATI A CRISTOFORI F
DIRECT EXTRACTION OF NEGATIVE HEAVY IONS FROM A DUOPLASMATRON SOURCE
ENERG. NUCL. (MILAN), 19, 36, 1972
- 370 72 033 CHAIT EM
PRESENT TECHNOLOGY AND FUTURE CHALLENGE OF IONIZATION SOURCES IN MASS SPECTROMETRY
ANAL. CHEM., 44, NO. 3, 77A, 1972
- 370 72 034 CHAMOUARD PA
DENSITY DISTRIBUTION MEASUREMENTS ON THE SATURNE 750 KEV PREINJECTOR BEAM
PP 107-12 OF BNL-50310, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES
NUCLEAIRES, OCT. 1971, FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT.
19, 1971
- 370 72 035 CHANTREAU J VAUTHIER R
INFLUENCE OF ION INITIAL ENERGIES ON THE DISCRIMINATION IN A NIER ION SOURCE OPERATING WITHOUT AN
AUXILIARY MAGNETIC FIELD AND NEGLECTING THE SPACE CHARGE EFFECT
PP 198-204 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OCATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 370 72 036 CHAPMAN KR ROWTON L TRIMBLE S
USE OF A SPIKE CATHODE WITH A DUOPLASMATRON ION SOURCE

PP 17-19 OF BNL-50310, FLORIDA STATE UNIV., TALLAHASSEE, OCT. 1971, FROM SYMPOSIUM ON ION SOURCES
AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 037 CHAUMOFF'S GAUTHERIN G LAPTEEF B
IMPROVEMENTS TO ION SOURCES FOR ION GAGES
FRENCH PATENT 2,119,204, AUG. 4, 1972, TO SOCIETE GENERAL DU VIDE, FILED DEC. 23, 1970, 11P IN
FRENCH
- 370 72 038 CHAVET I
ION EXTRACTION AND BEAM FORMATION FROM A PLASMA ION SOURCE
PP 303-30 OF BNL-50310, ISRAEL ATOMIC ENERGY COMMISSION, YAVNE, SOREQ NUCLEAR RESEARCH CENTER,
FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE
TECHNIQUE OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 370 72 039 CLARK DJ STEYAERT J CARNEIRO A MERRIS D
HEAVY ION DEVELOPMENT AT THE BERKELEY 88 INCH CYCLOTRON
LBL-223, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., NOV. 1971, 17P, CONF-711021-11, FROM
INTERNATIONAL CONFERENCE ON MULTIPLY CHARGED HEAVY ION SOURCES AND ACCELERATING SYSTEMS,
GATLINBURG, TENN., OCT. 25, 1971, 7 FIGURES, 1 TABLE
- 370 72 040 CLEGG TB
REVIEW OF LAMB-SHIFT POLARIZED ION SOURCES
PP 223-30 OF BNL-50310, FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT.
19, 1971, 52 REFERENCES
- 370 72 041 COBIC B
LOW POWER ION SOURCE FOR MULTICHARGED IONS OF KRYPTON AND XENON
J. MASS SPECTRY, ION PHYS., 7, 269, 1971, 4 REFERENCES
- 370 72 042 COIFFET P
STUDY AND DEVELOPMENT OF A POLARIZED ELECTRON SOURCE
J. PHYS. (PARIS), 32, NO. 2-3, 113, 1971 IN FRENCH
- 370 72 043 COLLINS LE
IMPROVEMENTS IN OR RELATING TO ION SOURCES
BRITISH PATENT 1,220,449, JAN. 27, 1971, TO THE UNITED KINGDOM ATOMIC ENERGY AUTHORITY, FILED JULY
31, 1967
- 370 72 044 DARLING RL MCSHAN DL DAVIS RH
CALCULATED IONIZATION VOLUMES FOR BATCH, CONTINUOUS, AND SELECTIVE EXTRACTION SOURCES OF HEAVY IONS
REV. SCI. INSTRUM., 43, 481, 1972 AND IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 168, 1972
- 370 72 045 DAVIS RC MORGAN OB STEWART LD STIRLING WL FORSEN HK
MULTI-AMPERE DUOPLASMATRON ION SOURCE FOR PLASMA RESEARCH
ORNL-TM-3472, OAK RIDGE NATIONAL LAB., TENN., JULY 1971, 23P

- 370 72 046 DAWTON RHVM
NEGATIVE ION SOURCES FOR VARIOUS ELEMENTS
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 231, 1972. FROM INTERNATIONAL CONFERENCE ON MULTIPLY-CHARGED
HEAVY ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971. CONF-711021
- 370 72 047 DEGEILH A GESSINN G PILOD P
PHYSIQUE CORPUSCULAIRE. INFLUENCE D'UN CHAMP MAGNETIQUE SUR LA LUMINANCE DE L'IMAGE DU 'CROSS-OVER'
D'UNE SOURCE D'IONS POSITIFS A EXCITATION ELECTRIQUE DE HAUTE FREQUENCE
COMPT. REND. SER. AB, 274, 562, 1972
- 370 72 048 DELAHAYE JP
DEVELOPMENT OF AN EMITTANCE METER SUITABLE FOR USE WITH A HIGH FREQUENCY DISCHARGE ION SOURCE.
MEASUREMENT OF THE CHARACTERISTICS OF THE EXTRACTED BEAM
CEA-R-4309. THESIS, GRENoble UNIV., FRANCE, MAY 1972, 204P IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, GRENoble, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 370 72 049 DEMIRKHANDOV RA KURSANDY YV LAZAREV NF BLAGOVESHCHENSKI VM
PRODUCTION OF NEGATIVE HYDROGEN IONS IN A PLASMA WITH A DOUBLE SHEATH
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 1489, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 40, 1911,
1970
- 370 72 050 DO CAO G
STUDY AND DEVELOPMENT OF AN ION DECELERATOR AND ITS APPLICATION TO COLLISION PROBLEMS
NP-18853. THESIS, LYON UNIV., FRANCE, 1970, 70P IN FRENCH
- 370 72 051 DUBOVOI LV IVANOV BA CHERNOBROVIN VI
MEASUREMENT OF PLASMA PARAMETERS IN STRONG HF DISCHARGE
PAMPHLET, NIIIEFA, Leningrad, 1970, 11P
- 370 72 052 DUFAY M
PROJECT FOR THE SPECTROSCOPIC STUDY OF A PIG ION SOURCE
FRNC-CNF-58. PARIS UNIV., ORSAY, FRANCE, INSTITUT DE PHYSIQUE NUCLEAIRE, 1972, 2P IN FRENCH.
CONF-720120-9. NTIS. FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, FRANCE, JAN. 28,
1972
- 370 72 053 ENLERS KW KUNKEL WB
LARGE AREA UNIFORM QUIESCENT PLASMA SOURCE FOR HIGH CURRENT ION BEAM PRODUCTION
LBL-915. CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., AUG. 1972, 10P. CONF-720948-10. NTIS.
FROM 2ND INTERNATIONAL CONFERENCE ON ION SOURCES, VIENNA, AUSTRIA, SEPT. 11, 1972
- 370 72 054 ELLIOT RM
IMPROVEMENTS IN OR RELATING TO ION SOURCES
BRITISH PATENT 1,298,940, DECEMBER 6, 1972. TO ASSOCIATED ELECTRICAL INDUSTRIES LTD. FILED APRIL 28,
1969, 4P
- 370 72 055 ELOY JF
APPARATUS FOR PRODUCING AN ION BEAM BY REMOVING ELECTRONS FROM A PLASMA
UNITED STATES PATENT 3,644,731. FEBRUARY 22, 1972. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. PRIORITY
DATE MAY 15, 1968. FRANCE
- 370 72 056 ENINGER JE
NEW SOURCES OF VERY HIGHLY CHARGED HEAVY IONS
NUCL. INSTRUM. METHODS, 97, 19, 1971. N72-13663, 1971
- 370 72 057 FASOLO JA MARNER GJ MOENICH JS
STATUS REPORT ON THE ZERO GRADIENT SYNCHROTRON (ZGS) H(-) ION SOURCE PROGRAM

PP 231-6 OF BNL-50310. ARGONNE NATIONAL LAB., ILL., OCT. 1971. FROM SYMPOSIUM ON ION SOURCES AND
FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 058 FESENKO VV GORDIENKO SP LYSENKO AA
MASS SPECTROMETRIC ION SOURCE FOR HIGH TEMPERATURE INVESTIGATIONS.
SOV. POWDER MET. METAL CERAM. (ENGL. TRANS.), 10, NO. 1, 82, 1971. TRANSLATED FROM POROSH. MET.,
AKAD. NAUK UKR. SSR, 10, NO. 1, 103, 1971
- 370 72 059 FITCH RK RUSHTON GJ
LOW PRESSURE ION SOURCE
J. VAC. SCI. TECHNOL., 9, 379, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 370 72 060 FRANZEN J
EXPERIENCES WITH A LOW-VOLTAGE DISCHARGE ION SOURCE APPLIED TO A COMMERCIAL MASS SPECTROMETER
PP 296-9 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 370 72 061 FRIEDMAN M
ACCELERATION OF HEAVY IONS FROM A METALLIC PLASMA SUBJECTED TO HIGH ELECTRIC FIELD
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 184, 1972
- 370 72 062 FUCHS G STEYAERT J CLARK DJ
ELECTRON CYCLOTRON RESONANCE IN A PENNING ION SOURCE
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 84, 1972. CONF-711021-1, 3P. FROM INTERNATIONAL CONFERENCE ON
MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971
- 370 72 063 FUCHS G
THEORETICAL CALCULATION OF SINGLE AND MULTIPLE IMPACT CHARGE DISTRIBUTION FOR HEAVY ION SOURCES
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 160, 1972. CONF-711021-6, 10P. FROM INTERNATIONAL CONFERENCE
ON MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971
- 370 72 064 FUKUMOTO S INAGAKI S KOBAYASHI M NISHIKAWA T TAKAMI S
PRELIMINARY STUDY OF ION SOURCE AND HIGH GRADIENT COLUMN
PP 121-8 OF BNL-50310. NATIONAL LAB. FOR HIGH ENERGY PHYSICS, TSUKUBA, JAPAN, OCT. 1971. FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 065 GLAVISH HF
1. ATOMIC BEAM SOURCES, 2. SURVEY OF GROUND STATE ATOMIC BEAM SOURCES
1. PP 267-93 OF POLARIZATION PHENOMENA IN NUCLEAR REACTIONS, BARSCHALL, H.H. (ED.), UNIV. OF
WISCONSIN PRESS, MADISON, 1971. FROM 3RD INTERNATIONAL SYMPOSIUM, MADISON, AUG.-SEPT. 1970.
COD-7-593 OR CONF-700811. 2. PP 207-22 OF BNL-50310. STANFORD UNIV., CALIF., OCT. 1971. FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971

- 370 72 066 GREENWAY TJL HYDER HRM
INFLUENCE OF EXTRACTION GEOMETRY ON A NEGATIVE HELIUM ION SOURCE WITH AN EXPANDED PLASMA
PP 277-84 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT.
19, 1971
- 370 72 067 GRIGOR'EV YP MOROZOV PM (2)
1. COMPUTATIONS INVOLVING ACCELERATING SYSTEM OF A SLIT-TYPE PLASMA ION SOURCE. 2. OPTIMIZATION OF
ION SOURCE CHAMBER GEOMETRY
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 909, 1971 AND 16, 1926, 1972. TRANSLATED FROM ZH. TEKH.
FIZ., 41, 1151 AND 2428, 1971
- 370 72 068 GRIGOROV GI
STUDY OF THE OPTIMIZATION OF ION SOURCES WITH OSCILLATING ELECTRONS
COMPT. REND. ACAD. BULG. SCI. (DOKLADY BULGARSKOI AKADEMII NAUK), 24, NO. 5, 581, 1971
- 370 72 069 GRUNDER HA RICHTER RM TEKAWA MM ZAJEC E
PULSED HEAVY ION SOURCE FOR BEVATRON
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 208, 1972. LBL-304 OR CONF-711021-8, 5P. FROM INTERNATIONAL
CONFERENCE ON MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25,
1971
- 370 72 070 GUERNET G
PROCEDURE FOR PRODUCING AN ION BEAM WITH A LARGE CROSS SECTION
FRENCH PATENT 2,045,238, FEBRUARY 15, 1971. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. FILED JUNE 26,
1969. IN FRENCH
- 370 72 071 GUSHINI S TERRAILLON M
ELECTRODEPOSITION OF YTTRIUM AND THE RARE EARTHS
CEA-R-4101. COMMISSARIAT A L'ENERGIE ATOMIQUE, BRUYERES-LE-CHATEL, FRANCE. CENTRE D'ETUDES, JAN.
1971. 20P IN FRENCH
- 370 72 072 HADINGER G
STUDY OF THE PLACES WHERE IONS ARE CREATED IN A PENNING SOURCE AS A FUNCTION OF THE SHAPE OF THE
MAGNETIC FIELD USING A MONTE-CARLO METHOD
LYCEN-7144. THESIS, LYON UNIV., FRANCE, JULY 1971. 73P IN FRENCH. INSTITUT DE PHYSIQUE NUCLEAIRE
- 370 72 073 HADINGER G HADINGER-ESPI G TAUT T ILLGEN J JACOBY W
1. APPLICATION OF THE MONTE-CARLO METHOD TO THE DETERMINATION OF THE PLACES WHERE IONS ARE FORMED IN
A PENNING SOURCE AS A FUNCTION OF THE MAGNETIC FIELD. 2. INHOMOGENEOUS MAGNETIC FIELDS IN
MULTICHARGED HEAVY ION SOURCES
1. LYCEN-7205, LYON UNIV., FRANCE, INSTITUT DE PHYSIQUE NUCLEAIRE, JAN. 1972. 22P IN FRENCH. NTIS
2. IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 137, 1972
- 370 72 074 HALL RR
CATHODE FOR DUOPLASMATRON-TYPE ION SOURCE
UNITED STATES PATENT 3,602,763, AUGUST 31, 1971, TO UNITED STATES ATOMIC ENERGY COMMISSION. FILED
OCTOBER 20, 1967
- 370 72 075 HAMILTON GW
ION SOURCE TECHNOLOGY
UCRL-73353. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., AUGUST 1971. 7P. CONF-711012-6.
FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 076 HARTFILL GW LEGG JC MACDONALD JR SEAMAN GG
OPERATION OF A H.V.E.C. DIODE ION SOURCE FOR THE INJECTION OF NEGATIVE IONS INTO THE K.S.U. TANDEM
VAN DE GRAAFF ACCELERATOR

PP 285-8 OF BNL-50310. KANSAS STATE UNIV., MANHATTAN. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF
ION BEAMS, UPTON, N.Y., OCTOBER 19, 1971
- 370 72 077 HEIL H GUCKENBERGER R
VERY BRIGHT FIELD IONIZATION AND FIELD EVAPORATION ION SOURCES. SOME USES. A BEAM FORMATION AND
SCANNING SYSTEM
IPP-9/6. MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK, GARCHING, WEST GERMANY, JUNE 1972. 18P. NTIS
- 370 72 078 HONZAWA T
BACK-DIFFUSION TYPE SOURCE OF MONOENERGETIC IONS
IPPJ-109, NAGOYA UNIV., JAPAN, INST. OF PLASMA PHYSICS, JULY 1971. 15P. NTIS. N72-13677. 1971
- 370 72 079 HUI AK GHOSH PK
HIGH CURRENT ELECTRON IMPACT ION SOURCE
PP 567-72 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, VOL. II.
DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1970. FROM SYMPOSIUM, MADURAI, INDIA, DEC. 27, 1970.
CONF-701219(VOL.2)
- 370 72 080 ILLGEN J KIRCHNER R SCHULTE J
DUOPLASMATRON ION SOURCES
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 35, 1972
- 370 72 081 ISAILA M PRELEC K
HEAVY ION SOURCE WITH PULSED MAGNETIC FIELD
IEEE TRANS. NUCL. SCI., NS-18, NO. 3, 85, 1971. FROM NATIONAL PARTICLE ACCELERATOR CONFERENCE,
CHICAGO, ILL., MARCH 1, 1971. CONF-710308
- 370 72 082 KHAN MY KHAN SA
OPERATIONAL CHARACTERISTICS OF A RADIO FREQUENCY ION SOURCE
J. PHYS. E, 5, 76, 1972
- 370 72 083 KISHI T SUGATA E
FINE METAL ION SOURCE
JAP. J. APPL. PHYS., 11, 773, 1972
- 370 72 084 KISTEMAKER J
ON THE STATE OF DEVELOPMENT OF ION SOURCES AND THE FORMATION OF ION BEAMS
PP 55-57 OF PARTICLE ACCELERATORS, VOL. 3, GORDON AND BREACH, SCIENCE PUBLISHERS LTD., 1972.
- 370 72 085 KLEIN W
A MOLECULAR BEAM CESIUM SOURCE FOR PHOTOEMISSION EXPERIMENTS
REV. SCI. INSTRUM., 42, 1082, 1971

- 370 72 086 KOHNO I MIYAZAWA Y TONUMA T
PRODUCTION OF MULTIPLY CHARGED IONS OF NE, AR, KR, AND XE BY ELECTRON BOMBARDED HOT CATHODE ION
SOURCE OF IPCR
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 109, 1972
- 370 72 087 KOMAROV VL TSEPAKIN SG CHEMYAKIN GV
HIGH FREQUENCY SOURCE OF HEAVY IONS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 150, 1971. TRANSLATED FROM Zh. Tekh. Fiz., 41, 198, 1971
- 370 72 088 KOVARIK V SLUYTERS T
ANALYTICAL APPROACH TO THE DESIGN OF A PLASMA EXPANSION CUP
PP 21-5 OF BNL-50310, BROOKHAVEN NATIONAL LAB., UPTON, N.Y. FROM SYMPOSIUM ON ION SOURCES AND
FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 089 KRUPP H
UNILAC ION SOURCE AND INJECTION SYSTEM
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 69, 1972
- 370 72 090 LAWRENCE GP
LAMB-SHIFT POLARIZED ION SOURCE FOR THE LOS ALAMOS MESON PHYSICS FACILITY
LA-DC-13017, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1971. 4P. CONF-711012-3, FROM SYMPOSIUM ON ION
SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 091 LAWSON JD
DIVERSITY AND UNITY IN SOURCES AND BEAMS
PP 1-7 OF BNL-50310, RUTHERFORD HIGH ENERGY LAB., CHILTON, ENGLAND, FROM SYMPOSIUM ON ION SOURCES
AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 092 LEJEUNE C
THEORETICAL AND EXPERIMENTAL STUDY OF THE GAS EFFICIENCY IN A DUOPLASMATRON ION SOURCE
PP 27-34 OF BNL-50310, PARIS UNIV., ORSAY, FRANCE, INSTITUT D'ELECTRONIQUE FONDAMENTALE, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 093 LOCKER LD MALM DL
FABRICATION OF SPUTTERING SOURCES BY PLASMA SPRAYING: TANTALUM-HAFNIUM MIXTURES
REV. SCI. INSTRUM., 42, 1696, 1971
- 370 72 094 MACKINNON BA RUFFELL JP WALKER IJ ROBBINS AB BOYD RN
GLAVISH HF
RUTGERS UNIVERSITY GROUND STATE ATOMIC BEAM POLARIZED ION SOURCE
PP 245-8 OF BNL-50310, FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT.
19, 1971
- 370 72 095 MAJUMDAR NK
NEW TYPE OF DC ION SOURCE
PP 296-300 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, UNIV. OF
ROORKEE, DEC. 28-31, 1969. VOL. II. DEPT. OF ATOMIC ENERGY, BOMBAY, 1969. CONF-691208(VOL.2)
- 370 72 096 MALARD M STEINEGGER A
PRODUCTION OF CA AND GE IONS IN A PIG SOURCE
FRNC-CONF-54, PARIS UNIV., ORSAY, FRANCE, INSTITUT DE PHYSIQUE NUCLEAIRE, 1972. 5P IN FRENCH.
CONF-720120-11. NTIS. FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, FRANCE, JAN. 28,
1972
- 370 72 097 MALLORY ML HUDSON ED FUCHS G
PERFORMANCE OF A PENNING ION SOURCE IN THE OAK RIDGE ISOCRONOUS CYCLOTRON

CONF-711021-3, OAK RIDGE NATIONAL LAB., TENN., 1971. 7P. NTIS. FROM INTERNATIONAL CONFERENCE ON
MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971
- 370 72 098 MARGHITU S
1. STUDY OF THE OSCILLATING ELECTRON SOURCES DISCHARGE AND ION BEAM. 2. MEASUREMENT OF THE EMITTANCE
OF AN ION-OPTICAL SYSTEM
1. STUD. CERCET. FIZ., 23, NO. 2, 145-59, 1971 IN ROMANIAN. 2. REV. ROUM. PHYS., 16, 461, 1971 IN
FRENCH
- 370 72 099 MASUDA S
DIRECT EXTRACTION NEGATIVE ION SOURCE FOR THE TANDEM ACCELERATOR
PP 289-94 OF BNL-50310, TOKYO SHIBAURA ELECTRIC CO. LTD., KAWASAKI, KANAGAWA PREFECTURE, JAPAN, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 100 MAUVE H
PROCESS AND DEVICE FOR OBTAINING IONS
FRENCH PATENT 2.041.547, JANUARY 18, 1971. FILED APRIL 29, 1969. IN FRENCH
- 370 72 101 MCALLISTER T
NEGATIVE ION PRODUCTION BY SECONDARY ELECTRONS IN A MASS SPECTROMETER ION SOURCE
J. CHEM. SOC., CHEM. COMMUN., P245, 1972
- 370 72 102 MCCANN JD
IMPROVEMENTS IN OR RELATING TO ELECTRON GUNS
BRITISH PATENT 1.251.333, OCTOBER 27, 1971. TO UNITED KINGDOM ATOMIC ENERGY AUTHORITY, FILED OCTOBER
31, 1967
- 370 72 103 MCCORKLE RA BENNETT WH
THIN ELECTROSTATICALLY SELF-FOCUSING ELECTRON STREAMS
PLASMA PHYS., 13, 1153, 1971
- 370 72 104 MCKIBBEN JL
1. GADGETS DEMONSTRATING PRINCIPLES INVOLVED IN POLARIZED ION SOURCES. 2. BENEFICIAL EFFECT OF AN
AIR LEAK INTO THE DUOPLASMATRON OF THE LASL POLARIZED SOURCE
LA-DC-12942 AND 12943, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 7P AND 4P. CONF-711012-4 AND -5, FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 105 MECKEL BB RICHELHANN BH
METHOD AND APPARATUS FOR GENERATING A CONTINUOUS BEAM OF NEUTRAL ATOMS
UNITED STATES PATENT 3,569,706, MARCH 9, 1971. TO PHYSICS TECH. LABS. INC. FILED OCTOBER 22, 1965
- 370 72 106 MEYER RX
CESIUM ION SOURCE WITH LARGE PERVEANCE AND HIGH DEGREE OF COLLIMATION
PP 87-102 OF ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY, BAKISH, R. (ED.), ELECTROCHEMICAL
SOCIETY, INC., NEW YORK, 1970. FROM 4TH INTERNATIONAL CONFERENCE, LOS ANGELES, CALIF., MAY 10,
1970

- 370 72 107 MINDO H
CONFERENCE ON HOLLOW-CATHODE DISCHARGES AND THEIR APPLICATIONS, ORSAY, FRANCE, SEPTEMBER 20 - 23, 1971
FRNC-R-6. PARIS UNIV., ORSAY, FRANCE, LABORATOIRE DE PHYSIQUE DES PLASMAS. 69P. CONF-710955
- 370 72 108 MIYAZAWA Y KOHNO I TONUMA T
SOURCE FOR MULTIPLY CHARGED IONS AND ACCELERATION OF C, N, AND O IONS BY IPCR CYCLOTRON
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 105, 1972
- 370 72 109 MDAK CD
EQUILIBRIUM CHARGE STATES OF FAST HEAVY IONS
CONF-711021-4. OAK RIDGE NATIONAL LAB., TENN., 1971. 6P. FROM INTERNATIONAL CONFERENCE ON MULTIPLY-CHARGED ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT. 25, 1971
- 370 72 110 MOCHIZUKI T ARIKAWA T
MEASUREMENTS OF BEAM EMITTANCE IN LOW ENERGY ION SOURCE
MASS SPECTRY, JAPAN, 20. 281, 1972 IN ENGLISH
- 370 72 111 MOREAU J
IMPROVEMENT TO ION SOURCES
FRENCH PATENT 96.127. MAY 19, 1972. TO SOCIETE GENERALE DE CONSTRUCTIONS ELECTRIQUES ET MECANIQUES. FILED NOVEMBER 25, 1968. IN FRENCH
- 370 72 112 MORGAN OB
INTENSE ION AND NEUTRAL BEAMS WITH EXTRACTION ENERGIES ABOVE 10 KEV
PP 129-35 OF BNL-50310. OAK RIDGE NATIONAL LAB., TENN., 1971. TID-25800. 14P. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971. 35 REFERENCES
- 370 72 113 MUKHERJEE DK BHATTACHARYA RS
CHARACTERISTICS OF A DUOPLASMATRON ION SOURCE
PP 573-8 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, VOL. II. DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1970. FROM SYMPOSIUM, MADURAI, INDIA, DEC. 27, 1970. CONF-701219(VOL.2)
- 370 72 114 NAKAGAWA Y WATANABE K
PALLADIUM PLASMA SOURCE
JAP. J. APPL. PHYS., 10. 1280, 1971
- 370 72 115 NEUDACHI IG PORODNOV BT SUETIN PE
NARROW MOLECULAR BEAMS FORMED BY CYLINDRICAL CHANNELS
ZH. TEKH. FIZ., 42. 1069, 1972
- 370 72 116 NUNOGAKI M ITOH J AKIMUNE H SUITA T
HIGH CURRENT AND GOOD EMITTANCE ION SOURCE
JAP. J. APPL. PHYS., 10. 1640, 1971
- 370 72 117 ORMROD JH
SOME FACTORS AFFECTING THE EMITTANCE OF A 100 MA DC DUOPLASMATRON
PP 151-5 OF BNL-50310. ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 118 OSHER JE HAMILTON GW (1)
1. INTENSE 1 KEV ION SOURCE FOR CONTROLLED FUSION RESEARCH. 2. A REVIEW OF THE PRODUCTION OF INTENSE ION AND NEUTRAL BEAMS WITH ENERGIES BELOW 10 KEV
UCRL-73387 AND 73412. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., AUG. 1971. 9P AND 9P. NTIS. CONF-711012-7 AND -8. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 119 PAETZ GEN. SCHIE H BUSCH CE KEANE JA OCHOUGHUE TR
COMPACT POLARIZED ION SOURCE FOR THE HIGH VOLTAGE TERMINAL OF THE OHIO STATE UNIVERSITY 6 MEV VAN DE GRAAFF ACCELERATOR
PP 263-7 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 120 PARKS EK YOUNG CE WEXLER S
ELECTRON BOMBARDMENT IONIZER FOR ACCELERATED MOLECULAR BEAMS
REV. SCI. INSTRUM., 42. 1404, 1971
- 370 72 121 PERRON C BARIL M
SIMPLE CS(+) ION SOURCE FOR ION SPUTTERING STUDIES
REV. PHYS. APPL., 7. 21, 1972
- 370 72 122 PESSA VM
ELECTRON GUN FOR AUGER AND ULTRASOFT X-RAY APPARATUS
ACTA POLYTECH. SCAND., PHYS. NUCL. SER., NO. 84, 1-16, 1971
- 370 72 123 PIOTROWSKI A RAIKO VI TYRROFF H
1. OPTIMIZATION OF ION SOURCE AND ION OPTICAL PARAMETERS FOR THE ISOTOPE SEPARATOR IN THE YASNAPP-1 FACILITY. 2. ION SOURCE FOR RADIOACTIVE ELEMENTS
1. PP 440-6 OF BMBW-FBK-70-28. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970. 2. PRIB. TEKH. EKSP., NO. 2, 23, 1972. JINR-P13-6014. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, 1971. 10P IN RUSSIAN
- 370 72 124 POESCHEL RL
ION SOURCE DIAGNOSTICS METHODS
CONF-711012-14. HUGHES RESEARCH LABS., MALIBU, CALIF., 1971. 36P. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 125 PREIKSCHAT E ROTH GW CRAMER JG WEITKAMP WG
UNIVERSITY OF WASHINGTON LAMB-SHIFT POLARIZED ION SOURCE
PP 261-2 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT. 19, 1971
- 370 72 126 PROKOPENKO SM LAFRANCOISE JC COODINGS JM
EVALUATION OF AN UNIFIED PROBE FOR PLASMA DIAGNOSTICS
J. PHYS. D, 5. 2152, 1972

- 370 72 127 REIFENSCHEWILER O
ION SOURCE HAVING A PLASMA AND GRIDLIKE ELECTRODE
UNITED STATES PATENT 3,569,756. MARCH 9, 1971. TO PHILIPS CORP. PRIORITY DATE AUGUST 18, 1964.
NETHERLANDS
- 370 72 128 RICHARDS HT KLODY GM (2)
1. NEGATIVE ION SOURCES FOR THE UNIVERSITY OF WISCONSIN'S TANDEM ACCELERATOR. 2. QUODHECATRON: A
GENERAL PURPOSE NEGATIVE AND POSITIVE ION SOURCE
1. PP 295-7 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y.,
OCT. 19, 1971. 2. COO-7-645. WISCONSIN UNIV., MADISON, 1972. 6P. CONF-720948-8. FROM 2ND
INTERNATIONAL CONFERENCE ON ION SOURCES, VIENNA, AUSTRIA, SEPT. 11, 1972
- 370 72 129 RIKOSKI RA
COMPACT PENNING DISCHARGE ION SOURCE FOR PLASMA DIFFUSION STUDIES
J. PHYS. E. S. 540. 1972
- 370 72 130 SANADA J MIKUMO T KATORI K SEKI S TAGISHI Y
NOJIRI Y KOBAYASHI S SAKAGUCHI H
LAMB-SHIFT POLARIZED ION SOURCE WITH SPIN FILTER
PP 269-72 OF BNL-50310. TOKYO UNIV. OF EDUCATION, JAPAN, DEPT. OF PHYSICS, AND KYOTO UNIV., JAPAN.
FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971
- 370 72 131 SCOTT WD LEVIN Z
OPEN CHANNELS IN SEA ICE (LEADS) AS ION SOURCES
SCIENCE. 177. 425. 1972
- 370 72 132 SEPTIER A
1. EXTRACTION OF IONS FROM GAS DISCHARGE SOURCES. 2. SURVEY OF MULTICHARGED ION SOURCES PHYSICS AND
SOME EXTRACTION PROBLEMS
1. PP 9-16 OF BNL-50310. PARIS UNIV., ORSAY, FRANCE, INSTITUT D'ELECTRONIQUE FONDAMENTALE. FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971. 2. IEEE TRANS.
NUCL. SCI., NS-19. NO. 2. 22. 1972
- 370 72 133 SHELAEV IA ALFEEV VS BATYUNYA VV ZAGER BA KOZLOV SI
MEL'NIKOV VN OGANESEYAN RT FILIPSON AN
EXPERIMENTS ON Xe ION ACCELERATION IN THE JINR CYCLOTRONS
JINR-P9-6166. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS. 1971. 12P IN
RUSSIAN. NTIS
- 370 72 134 SHIMIZU K KAWAKATS H KANAYA K
METAL ION SOURCE FOR ION IMPLANTATION SYSTEM
JAP. J. APPL. PHYS., 11. 1192. 1972
- 370 72 135 SIDENIUS G
HOLLOW CATHODE ION SOURCE AND ITS APPLICATION TO ON-LINE SEPARATIONS
PP 423-32 OF BMBW-FBK-70-28. NIELS BOHR INSTITUTET, COPENHAGEN, DENMARK. FROM PROCEEDINGS OF 7TH
INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUE OF THEIR
APPLICATIONS. MARBURG, GERMANY. SEPT. 7, 1970
- 370 72 136 SILLER G BUCHELT E SCHILLING MB
PROPERTIES OF AN ELECTRON SOURCE WITH LASER INDUCED ELECTRON EMISSION
IPP-0/7. INSTITUT FUER PLASMAPHYSIK, G.M.B.H., GARCHING, WEST GERMANY, APRIL 1971. 27P. NTIS
- 370 72 137 SINGH J
ATOMIC BEAM SCATTERING IN POLARIZED ION SOURCES
NUCL. INSTRUM. METHODS. 99. 413. 1972
- 370 72 138 SKOROKHOODOV II SAGITOV RG KHELEBORO IF
ION SOURCE FOR MASS SPECTROMETRIC ANALYSIS OF CORROSIVE GASES
IND. LAB. USSR (ENGL. TRANS.), 38. 145. 1972. TRANSLATED FROM ZAVOD. LAB., NO. 1. 119. 1972
- 370 72 139 SKUDLARSKI K
ION SOURCE OF MI-1305 MASS SPECTROMETER FOR RESEARCH AT HIGH TEMPERATURES
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14. 651. 1971. TRANSLATED FROM PRIB. TEKH. EKSP., 197. NO.
2. 268. 1971
- 370 72 140 SLUYTERS TJM
PROCEEDINGS OF THE SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. OCTOBER 19 - 21, 1971.
UPTON, NEW YORK
BNL-50310. BROOKHAVEN NATIONAL LAB., UPTON, N.Y., OCT. 1971. 299P. CONF-711012. NTIS
- 370 72 141 SMITH LA LANGDON A
PERFORMANCE OF SIMPLIFIED MOLECULAR BEAM ION SOURCES FOR URANIUM ISOTOPE MASS SPECTROMETERS
PP 450-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 370 72 142 SONODA M WAKUTA Y HASUYAMA H TSUJI K
KYUSHU UNIVERSITY POLARIZED ION SOURCE
CONF-711012-15. KYUSHU UNIV., FUKUOKA, JAPAN, DEPT. OF NUCLEAR ENGINEERING. 1971. 4P. NTIS. FROM
SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971
- 370 72 143 STIRLING WL DAVIS RC MORGAN OB STEWART LD JERNIGAN TC (2)
ORZECZOWSKI TJ (2) SCHILLING G (2)
1. ORNL MULTIAMPERE ION SOURCE. 2. INTENSE ION BEAM PRODUCTION BELOW 40 KEV
1. CONF-711012-9. OAK RIDGE NATIONAL LAB., TENN. 7P. NTIS. FROM SYMPOSIUM ON ION SOURCES AND
FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971. 2. CONF-720948-7. OAK RIDGE NATIONAL LAB.,
TENN. 10P. NTIS. FROM 2ND INTERNATIONAL CONFERENCE ON ION SOURCES, VIENNA, AUSTRIA, SEPT. 11, 1972
- 370 72 144 STIX TH
1. SOURCE FOR HIGHLY STRIPPED IONS. 2. APPARATUS FOR THE PRODUCTION OF HIGHLY STRIPPED IONS
1. UNITED STATES PATENT 3,611,029. OCTOBER 5, 1971. TO U.S. ATOMIC ENERGY COMMISSION. FILED
SEPTEMBER 9, 1969. 2. UNITED STATES PATENT 3,634,704. JANUARY 11, 1972. TO U.S. ATOMIC ENERGY
COMMISSION. FILED SEPTEMBER 2, 1970
- 370 72 145 SUBTIL JL
USE OF AN HF SOURCE FOR PRODUCING HEAVY IONS: APPLICATION TO THE CHLORINE SPECTRUM
FRNC-TH-134. THESIS. LYON UNIV., FRANCE, 1971. 70P IN FRENCH
- 370 72 146 TAKAGI T YAMADA I ISHIKAWA J
1. BEAM-PLASMA TYPE ION SOURCE. 2. BEAM-PLASMA TYPE ION SOURCE FOR HIGH CURRENT OPERATION. 3.
ELECTRON BOMBARDMENT TYPE SIMPLIFIED SOURCE FOR HIGH TEMPERATURE OPERATION AND PRODUCTION OF
MULTIPLY CHARGED IONS UTILIZING BEAM-PLASMA INTERACTIONS
1. PP 597-604 OF RECORD OF 11TH SYMPOSIUM ON ELECTRON, ION, AND LASER BEAM TECHNOLOGY. THORNLEY, R.
F.M. (ED.). INST. OF ELECTRICAL AND ELECTRONICS ENGINEERS INC., N.Y., 1971. FROM SYMPOSIUM,
BOULDER, COLO., MAY 12, 1971. 2. PP 191-7 OF BNL-50310. KYOTO UNIV., JAPAN, FROM SYMPOSIUM ON ION
SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971. 3. IEEE TRANS. NUCL. SCI., NS-19.
NO. 2. 142. 1972

- 370 72 147 TAMAGAWA H OKAMOTO Y AKUTAGAWA C
PROPOSAL ON MULTIPLY CHARGED ION SOURCE (ARGON IONS)
JAP. J. APPL. PHYS., 11, 1226, 1972
- 370 72 148 TAMURA H KONDO T DOI H
NEW SECONDARY ION EXTRACTOR WITH PIERCE ELECTRODE
JAP. J. APPL. PHYS., 10, NO. 10, XXX, 1971 AND 11, 123, 1972
- 370 72 149 TARANTIN NI KABACHENKO AP DEMYANOV AV IVANOV NS
GAS DISCHARGE ION SOURCE FOR AN ELECTROMAGNETIC MASS SEPARATOR ON-LINE WITH A HEAVY ION CYCLOTRON
PP 548-61 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 370 72 150 TAUTH T CHABERT A
PIG SOURCES
LYCEN-7207, LYON UNIV., FRANCE, INSTITUT DE PHYSIQUE NUCLEAIRE, JAN. 1972. 14P IN FRENCH. NTIS
- 370 72 151 THOMPSON DT COPPLE WP
A SUCCESSFUL BONDING METHOD FOR ION SOURCES
NUCL. INSTRUM. METHODS, 96, 475, 1971
- 370 72 152 TOMAN M REISER M
EMITTANCE MEASUREMENTS FOR $N(1+)$ AND $N(2+)$ IN AN ION BEAM FROM A CYCLOTRON ION SOURCE
IEEE TRANS. NUCL. SCI., NS-19, NO. 2, 80, 1972
- 370 72 153 TRET'YAKOV YP KUL'KINA LP KUZNETSOV VI PASYUK AS
ECONOMICAL SOURCE OF MULTIPLY CHARGED CALCIUM AND ZINC IONS
INSTRUM. EXP. TECH. (ENGL. TRANS.), P1290, 1970. TRANSLATED FROM PRIB. TEKH. EKSP., NO. 5, 40, 1970
- 370 72 154 TSCHEDJEMOV G TODT W LIPPOLT HJ
OPTIMALE JUSTIERUNG DER IONENQUELLE BEI GAS MASSENSPEKTROMETER (OPTIMAL ADJUSTMENTS OF ION SOURCES
OF GAS MASS SPECTROMETERS)
J. MASS SPECTRY, ION PHYS., 9, 1-14, 1972. 11 REFERENCES
- 370 72 155 VAN DER WO A
MICROWAVE HEATED PLASMA (ELMO) AS A SOURCE OF MULTIPLY CHARGED IONS
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 2, 187, 1972
- 370 72 156 VENEZIA A AMIEL S
EXPERIMENTS WITH A NEGATIVE SURFACE IONIZATION SOURCE FOR STUDYING FISSION PRODUCED HALOGENS WITH AN
ON-LINE ISOTOPE SEPARATOR
PP 467-72 OF BMBW-FBK-70-28. ISRAEL ATOMIC ENERGY COMMISSION, YAVNE, SOREQ NUCLEAR RESEARCH CENTER,
FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE
TECHNIQUE OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 370 72 157 VLADIMIROV AI VOROB'EV FD (1) SAENKO VA TRET'YAKOV YP (1) KONDRATY II (2)
1. ION CHARGE STATES IN A BEAM-PLASMA SYSTEM. 2. DETERMINATION OF PLASMA PARAMETERS FOR A SOURCE OF
MULTIPLY CHARGED IONS
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 902, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1141,
1971. 2. OPT. SPEKTROSK., 32, 1088, 1972 IN RUSSIAN
- 370 72 158 VON GOELER S
PLASMA CONFINEMENT AND STABILITY WITH APPLICATION TO ION SOURCES OF ISOTOPE SEPARATORS
PP 399-422 OF BMBW-FBK-70-28. PRINCETON UNIV., N.J., PLASMA PHYSICS LAB. FROM PROCEEDINGS OF 7TH
INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR
APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 370 72 159 VYSE RN
ATOMIC BEAM POLARIZED $He(3)(+)$ ION SOURCE
THESIS. UNIV. OF BRITISH COLUMBIA, VANCOUVER, 1970. NATIONAL LIBRARY OF CANADA, OTTAWA
- 370 72 160 WARNECKE R RICHARDT A
PRODUCTION OF HEAVY IONS USING THE PLASMA JET FROM A DUOPLASMATRON SOURCE
PP 103-12 OF ELECTRON AND ION BEAM SCIENCE AND TECHNOLOGY. BAKISH, R. (ED.). ELECTROCHEMICAL SOCIETY
INC., NEW YORK, 1970. FROM 4TH INTERNATIONAL CONFERENCE. LOS ANGELES, CALIF., MAY 10, 1970
- 370 72 161 WELLS N HANLEY PR
PARAMETRIC STUDY OF A NEGATIVE ION DUOPLASMATRON
PP 249-50 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS. UPTON, N.Y., OCT.
19, 1971
- 370 72 162 WILLMOTH RG
SPEED DISTRIBUTION MEASUREMENTS OF N_2 AND AR MOLECULAR BEAMS PRODUCED BY A MULTICHANNEL SOURCE
J. VAC. SCI. TECHNOL., 9, 1121, 1972
- 370 72 163 WILSON RG
ION SOURCE REQUIREMENTS FOR ION IMPLANTATION
PP 179-82 OF BNL-50310. HUGHES RESEARCH LABS., MALIBU, CALIF. FROM SYMPOSIUM ON ION SOURCES AND
FORMATION OF ION BEAMS. UPTON, N.Y., OCT. 19, 1971
- 370 72 164 WINTER H
DEVELOPMENT OF A PLASMATRON ION SOURCE FOR AN ELECTROMAGNETIC ISOTOPE SEPARATOR
J. MASS SPECTRY, ION PHYS., 6, 393, 1971. 7 REFERENCES
- 370 72 165 WOLF BH
CHARACTERISTICS OF A COLD CATHODE TYPE PENNING SOURCE AND LOW ENERGY ISOTOPE SEPARATION OF HIGH
CHARGE STATES
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 2, 74, 1972
- 370 72 166 ZINCHENKO GN ZINCHENKO NS
HIGH VACUUM ION SOURCES
UKR. FIZ. ZH. (RUSS. ED.), 16, 1057, 1971
- 370 72 167 ZUK W MACZKA D
NEW CONSTRUCTION OF THE SPUTTERING ION SOURCE FOR THE ISOTOPE SEPARATION OF NONVOLATILE ELEMENTS
PP 433-9 OF BMBW-FBK-70-28. MARIE CURIE SKLODOWSKA UNIV., LUBLIN, POLAND. FROM PROCEEDINGS OF 7TH
INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR
APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970

- 375 72 001 BAILEY WL
CARBON MONOXIDE ABSORPTION IN K AND M GIANTS AND THE C(12)/C(13) ABUNDANCE RATIO
THESIS. UNIV. OF ARIZONA, TUCSON, 1971. 141P. UNIVERSITY MICROFILMS ORDER NO. 71-24,887
- 375 72 002 BOYER R HENOUX JC SOTIROVSKI P
ISOTOPES OF MAGNESIUM IN THE SOLAR ATMOSPHERE
SOLAR PHYS., 19, 330, 1971
- 375 72 003 COHEN JG
LITHIUM ISOTOPE RATIO IN F AND G FIELD STARS
THESIS. CALIFORNIA INST. OF TECH., PASADENA, 1971. 220P. UNIVERSITY MICROFILMS ORDER NO. 71-27,095.
AND ASTROPHYS. J., 171, 71-7, 1972
- 375 72 004 DAUBER PM
ISOTOPIC COMPOSITION OF THE PRIMARY COSMIC RADIATION
N72-18799. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 375 72 005 DE LAETER JR
ISOTOPIC COMPOSITION AND ELEMENTAL ABUNDANCE OF GALLIUM IN METEORITES AND IN TERRESTRIAL SAMPLES
GEOCHIM. COSMOCHIM. ACTA, 36, 735, 1972
- 375 72 006 DURGA PRASAD N
RELATIVE ABUNDANCES OF THE ISOTOPES OF LIGHT NUCLEI (Li, Be, AND B) IN THE PRIMARY COSMIC RADIATION
ASTROPHYS. SPACE SCI., 12, 243, 1971
- 375 72 007 FLORY DA
STABLE CARBON ISOTOPE RATIOS IN METEORITIC ORGANIC MATTER
PP 692-9 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 375 72 008 FREW NM LEARY JJ ISENHOUR TL
ISOTOPIC ANALYSIS OF CHROMIUM IN LUNAR MATERIALS BY MASS SPECTROMETRY OF THE
TRIFLUOROACETYLACETONATE
ANAL. CHEM., 44, 665, 1972
- 375 72 009 GARDNER FF RIBES JC COOPER BFC
DETECTION OF THE O(18) ISOTOPE OF FORMALDEHYDE AT 4388 MHZ
ASTROPHYS. LETT., 9, NO. 4, 181, 1971
- 375 72 010 GRUDINKINA NP PEVZNER MG LEVIN EM (2)
1. DETERMINATION OF THE ISOTOPIC COMPOSITION OF CADMIUM. 2. DETERMINATION OF THE ISOTOPIC
COMPOSITION OF TIN AND INDIUM
TR. METROL. INST. SSSR, NO. 96, 181 AND 184, 1968 IN RUSSIAN
- 375 72 011 HALL DNB NOYES RW AYRES TR
IDENTIFICATION OF C(13)O(16) IN THE INFRARED SUN-SPOT SPECTRUM AND THE DETERMINATION OF THE SOLAR
C(12)/C(13) ABUNDANCE RATIO
ASTROPHYS. J., 171, 615, 1972
- 375 72 012 HINTENBERGER H
XENON IN TERRESTRIAL AND EXTRATERRESTRIAL MATTER (XENOLOGY)
NATURWISSENSCHAFTEN, 59, NO. 7, 285-91, 1972 IN GERMAN. 38 REFERENCES
- 375 72 013 HUEY JM
ISOTOPIC COMPOSITION OF LEAD AND THALLIUM IN NATURAL MATERIALS

PP 26-43 OF NYO-844-84. CARNEGIE-MELLON UNIV., PITTSBURGH, PA., DEPT. OF CHEMISTRY, IN NUCLEAR
CHEMISTRY AND GEOCHEMISTRY RESEARCH
- 375 72 014 KISHINA N
RECOMMENDATION OF SODIUM OXALATE AS A LABORATORY STANDARD FOR DELTA O(18) MEASUREMENT
MASS SPECTRY, JAPAN, 20, 253, 1972 IN ENGLISH
- 375 72 015 LAMBERT DE MALLIA EA PETFORD AD (1) BRAULT J (2)
1. MAGNESIUM HYDRIDE IN THE SUN. 2. ABUNDANCE OF CHLORINE IN THE SUN. 3. (0,0) BAND OF GAMMA SYSTEM
OF TiO IN UMBRAL SPECTRUM. ISOTOPIC ABUNDANCE OF Ti
MON. NOTIC. ROY. ASTRON. SOC., 154, 265, 1971. SOLAR PHYS., 19, 289, 1971. AND MON. NOTIC. ROY.
ASTRON. SOC., 156, 337, 1972
- 375 72 016 LEVSKY LK MURIN AN (1) ZASLAVSK VG (1)
1. ISOTOPIC COMPOSITION OF LITHIUM IN METEORITES. 2. ISOTOPIC COMPOSITION OF PRIMARY ARGON
GEOKHIMIYA, P212 AND P707, 1972 IN RUSSIAN
- 375 72 017 LOVELESS AJ YANAGITA S (2) MABUCHI H (2) OZIMA M (2) RUSSELL RD (2)
1. ISOTOPIC COMPOSITION OF GADOLINIUM, SAMARIUM, AND EUROPIUM IN THE ABEE METEORITE. 2. ISOTOPIC
RATIOS OF Gd, Sm, AND Eu IN ABEE ENSTATITE CHONDRITE
1. THESIS. UNIV. OF BRITISH COLUMBIA, VANCOUVER, 1970. NATIONAL LIBRARY OF CANADA, OTTAWA. 2.
GEOCHIM. COSMOCHIM. ACTA, 36, 685, 1972
- 375 72 018 MARENIN IR
C(12)/C(13) AND THE CN/C2 RATIOS IN THE CARBON STARS 19 PSC AND Y CVN
THESIS. INDIANA UNIV., BLOOMINGTON, 1970. 176P. UNIVERSITY MICROFILMS ORDER NO. 71-6876
- 375 72 019 MELTON CE MASSEY W ABELS BN
ISOTOPIC ABUNDANCE OF NEON, ARGON, AND KRYPTON
Z. NATURFORSCH., 26A, 1241, 1971
- 375 72 020 MORRIS M ZUCKERMAN B PALMER P TURNER BE
HCN IN IRC + 10216
ASTROPHYS. J., 170, NO. 3, L109, 1971
- 375 72 021 MYERS WA LINDNER M
PRECISE DETERMINATION OF THE NATURAL ABUNDANCE OF NP(237) AND PU(239) IN KATANGA PITCHBLEND
J. INORG. NUCL. CHEM., 33, 3233, 1971
- 375 72 022 NISHIMURA H OKANO J
ISOTOPIC RATIO OF LITHIUM IN CHONDRITE MEASURED BY AN ION PROBE MASS SPECTROMETER
JAP. J. APPL. PHYS., 10, 1613, 1971

- 375 72 023 PHINNEY DL
HEAVY RARE GASES IN SELECTED METEORITES AND TERRESTRIAL MATERIALS
THESIS, UNIV. OF MINNESOTA, MINNEAPOLIS, 1971. 121P. UNIVERSITY MICROFILMS ORDER NO. 72-14,353
- 375 72 024 ROSMAN KJR
SURVEY OF THE ISOTOPIC AND ELEMENTAL ABUNDANCE OF ZINC
GEOCHIM. COSMOCHEM. ACTA, 36, 801, 1972
- 375 72 025 SMITH BN
NATURAL ABUNDANCE OF STABLE ISOTOPES OF CARBON IN BIOLOGICAL SYSTEMS
BIOSCIENCE, 22, NO. 4, 226, 1972
- 375 72 026 STEVENS CM
ISOTOPIC ABUNDANCE OF MOLYBDENUM IN TERRESTRIAL MINERALS
J. MASS SPECTRY, ION PHYS., 8, 251, 1972, 7 REFERENCES
- 375 72 027 TAKAKA N
AN INTERPRETATION OF GENERAL ANOMALIES OF XENON AND THE ISOTOPIC COMPOSITION OF PRIMITIVE XENON
MASS SPECTRY, JAPAN, 20, 287, 1972 IN ENGLISH
- 380 72 001 ALEXANDRU G TUFOI N
DETERMINING THE ISOTOPIC COMPOSITION OF URANIUM WITH THE AID OF A MASS SPECTROMETER
STUD. CERCET. FIZ., 23, 853, 1971 IN RUMANIAN
- 380 72 002 ALIMOVA IA MANYRIN BA GARTMANOV VN BCLTENKOV BS
STUDY OF HELIUM ISOTOPIC ABUNDANCE IN SAMPLES WITH SMALL HELIUM CONTENT
PP 652-3 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 6, 1969
- 380 72 003 BAKER RD
ADVANCED PLUTONIUM FUELS PROGRAM
LA-4749, QUARTERLY STATUS REPORT, APRIL - JUNE, 1971 AND 5TH ANNUAL REPORT, FY 1971, LOS ALAMOS
SCIENTIFIC LAB., NEW MEXICO, AUG. 1971, 68P, NTIS
- 380 72 004 BEAVEN MA JACOBSEN S HORAKOVA Z
MODIFICATION OF ENZYMIC ISOTOPIC ASSAY OF HISTAMINE AND ITS APPLICATION TO MEASUREMENT OF
HISTAMINE IN TISSUES, SERUM, AND URINE
CLIN. CHIM. ACTA, 37, 91, 1972
- 380 72 005 BLOHM D IRMLER R
SPECTROMETRIC ANALYSIS OF N(15) IN THE PRESENCE OF BORATE
ISOTOPENPRAXIS, 7, NO. 4, 149, 1971 IN GERMAN
- 380 72 006 BOULLOUD JP CFSARIO J FAUCONNIER JC
ACCURACY OF HIGH ISOTOPIC ABUNDANCE RATIO MEASUREMENTS (10TO-6) USING MASS SPECTROMETRY
METHOD, PHYS. ANAL., 7, 44, 1971 IN FRENCH
- 380 72 007 BOUZIGUES H SEYVE C AUBEAU R BOYER R TOUSSAINT C
FONTAINE A BAUDE L
INDUSTRIAL QUALITY CONTROL OF UF6
CEA-N-1480, COMMISSARIAT A L'ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES
NUCLEAIRES, JULY 1971, 71P IN FRENCH
- 380 72 008 BOYER R
ISOTOPIC LINES OF THE MGH MOLECULE
ASTRON. ASTROPHYS., 12, 464, 1971
- 380 72 009 CHUDY M POVINEC P SELIGA M SARO S
C(14) IN ATMOSPHERE AND BIOSPHERE
RADIOISOTOPE, 11, 935, 1970 IN CZECH
- 380 72 010 DOSTAL KP
1. ANALYSIS OF MASS SPECTROMETRIC DOUBLE-BEAM METHOD FOR DETERMINATION OF ISOTOPE ABUNDANCE
VARIATIONS. 2. VARIANTS OF PRECISION ISOTOPIC ANALYSIS OF GASES BY MEANS OF THE M-86 MASS
SPECTROMETER. 3. ERRORS IN PRECISION ISOTOPIC ANALYSIS OF GASES BY MEANS OF THE M-86 MASS
SPECTROMETER
ISOTOPENPRAXIS, 7, 305, 1971, AND 2, ANGEW. GEOL., 17, 328 AND 374, 1971 IN GERMAN
- 380 72 011 DZIEHARD'YAN YA MIKHAILOV GI STARCHIK LP
ISOTOPIC ANALYSIS OF LITHIUM AND BORON ACCORDING TO GAMMA-QUANTA ACCOMPANYING THE NUCLEAR REACTIONS
L(17)(ALPHA,ALPHA')LI(7STAR) AND B(10)(ALPHA,P)C(13STAR)
SOV. RADIOCHEM. (ENGL. TRANS.), 12, 757, 1970, TRANSLATED FROM RADIOKHIMIYA, 12, 787, 1970
- 380 72 012 FREW NM ISENHOUR TL
MASS SPECTROMETRIC ISOTOPE RATIO MEASUREMENTS AND PEAK AREA INTEGRATION USING THE PEAK-SWITCHING
FEATURE OF THE AEI MS-902
ANAL. CHEM., 44, 859, 1972
- 380 72 013 GACS I MLINKO S PAYER K
1. ISOTOPE GAS ANALYSIS OF TRITIUM LABELLED WATER BY MEANS OF AN AUTOMATIC APPARATUS. 2. ISOTOPE GAS
ANALYSIS OF TRITIUM LABELLED ORGANIC COMPOUNDS BASED ON PYROLYTICAL DECOMPOSITION
J. RADIOANAL. CHEM., 10, 203, 1972 AND MIKROCHIM. ACTA, NO. 3, 326, 1972
- 380 72 014 GENSHO R HONDA M
MEASUREMENTS OF THE ISOTOPIC RATIO OF BORON
MASS SPECTRY, JAPAN, (SHITSURYO BUNSEKI), 19, 134, 1971 IN JAPANESE
- 380 72 015 GOERLICH W MOELLER P SCHNEEWEISS F
MEASUREMENT OF ISOTOPE ABUNDANCE SHIFTS BY MEANS OF NEUTRON ACTIVATION ANALYSIS
PP 423-8 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY, BRUNFELT, A.O. (ED.),
UNIVERSITETSFORLAGET, OSLO, 1971, FROM CONFERENCE, KJELLER, NORWAY, SEPT. 7, 1970, CONF-700968
- 380 72 016 GOGITIOZE OA
DETERMINATION OF B(10) CONCENTRATIONS IN COMPOUNDS CONTAINING BORON BY MEANS OF THERMAL NEUTRON
ABSORPTION MEASUREMENT TECHNIQUE
KERNENERGIE, 14, NO. 3, 87, 1971 IN RUSSIAN
- 380 72 017 GORGORAK VI GERASIMO AV
MASS SPECTRAL ISOTOPIC ANALYSIS OF NANOGRAM QUANTITIES OF SILVER
DOKL. AKADE. NAUK SSSR, 199, 330, 1971 IN RUSSIAN

- 380 72 018 GUNNINK R TINNEY JF
TOTAL FISSION CONTENT AND ISOTOPIIC ANALYSIS OF NUCLEAR MATERIALS BY GAMMA RAY SPECTROMETRY
UCRL-73274. CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., OCT. 1971. 19P. CONF-711107-11.
FROM SYMPOSIUM ON ANALYTICAL METHODS IN THE NUCLEAR FUEL CYCLE, VIENNA, AUSTRIA, NOV. 29, 1971
- 380 72 019 HAGEMANN R NIEF G ROTH E
ABSOLUTE MEASUREMENT OF THE ISOTOPIIC RATIO OF A WATER SAMPLE WITH A VERY LOW DEUTERIUM CONTENT
AEC-TR-7345. TRANSLATED FOR SAVANNAH RIVER LAB., AIKEN, S.C., FROM REPORT CEA-R-3633. 25P. NTIS
- 380 72 020 HEUMANN KG LIESER KH ELIAS H
DIFFICULTIES IN MEASURING THE ISOTOPIIC ABUNDANCES OF CALCIUM WITH A MASS SPECTROMETER
PP 457-50 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 380 72 021 HORTON JC LANGDON A SULFRIDGE C
MASS SPECTROMETER ANALYSIS OF NEON ISOTOPES
K-1818. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., AUG. 1971. 10P. NTIS
- 380 72 022 HUGHES MW HOLMES JW
APPARATUS AND METHOD FOR THE MEASUREMENT OF NATURAL ABUNDANCE OF TRITIUM
NP-19005. TECHNICAL PAPER NO. 3. COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION,
ADELAIDE, AUSTRALIA. DIV. OF SOILS, 1971. 15P. NTIS
- 380 72 023 IHLE HR NEUBERT A MICHAEL H (2)
1. SENSITIVITY AND ACCURACY OF ISOTOPIIC ABUNDANCE ANALYSIS USING AN ION COUNTING METHOD. 2. ISOTOPIIC
COMPOSITION OF PLUTONIUM-238 FROM AMERICIUM-241 AND REACTOR CROSS SECTIONS OF ACTINIDE NUCLIDES
1. J. MASS SPECTRY, ION PHYS., 7, 189, 1971. 12 REFERENCES. 2. J. INORG. NUCL. CHEM., 34, 2427, 1972
- 380 72 024 JONES MC
ON-STREAM MONITORING OF URANIUM ISOTOPES
K-L-6300. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., SEPT. 1972. 8P. NTIS
- 380 72 025 KOMORI T TAMURA S GUNJI K TAMURA K
IMPROVEMENT IN THE MEASUREMENT OF THE ISOTOPE RATIO OF URANIUM
K-TRANS-63. TRANSLATED FOR OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., FROM SHITSURYO BUNSEKI (MASS
SPECTRY, JAPAN), 18, 1270-4, 1970. 8P. NTIS
- 380 72 026 KOWALSKI E
ISOTOPE MEASUREMENT TECHNIQUES (RADIOACTIVE)
AUTOMATION, U.S., 19, NO. 6, 77, 1972
- 380 72 027 KREY PW KRAJEWSKI BT
PLUTONIUM ISOTOPIIC RATIOS AT ROCKY FLATS
PP 1-67-94 OF HASL-249. NEW YORK OPERATIONS OFFICE, AEC, N.Y., HEALTH AND SAFETY LAB., APRIL 1972.
IN FALLOUT PROGRAM QUARTERLY SUMMARY REPORT, DEC. 1971 - MARCH 1972
- 380 72 028 KRISTIANSSON K
ISOTOPE ANALYSIS WITH NUCLEAR EMULSIONS
LUIP-CR-71-4. LUND UNIV., SWEDEN, DEPT. OF PHYSICS, APRIL 1971. 19P. CONF-710331-1. FROM ISOTOPIIC
COMPOSITION OF COSMIC RAY NUCLEI CONFERENCE, LYNGBY, DENMARK, MARCH 23, 1971
- 380 72 029 LYUBIMOV VN SEMYANNIKOV PP GRANKIN VM
MASS SPECTROMETRIC ANALYSIS OF THE ISOTOPIIC COMPOSITION OF BORON IN ITS DIFFICULTY VOLATILE
COMPOUNDS BY MEANS OF FLUORINATION OF THEM
ISOTOPENPRAXIS, 8, NO. 1, 26, 1972 IN RUSSIAN
- 380 72 030 MACDOUGALL CS SMITH ME WATERBURY GR
DETERMINATION OF U(18)/O(16) ATOM RATIO IN PLUTONIUM DIOXIDE ENRICHED IN O(16)
LA-4849. LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, FEB. 1972. 9P. NTIS
- 380 72 031 MATUS L OPAUSZKI J (1) OPAUSZKY I (2)
1. DETERMINATION OF MI-1305 MASS SPECTROMETER D/H RATIO USING MODULATED ACCELERATING VOLTAGE. 2. H/D
RATIO MEASUREMENT WITH MI-1305 TYPE MASS SPECTROMETER BY COMPENSATION TECHNIQUE
1. INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 1529, 1970. TRANSLATED FROM PRIB. TEKH. EKSP., NO. 5,
241, 1970. 2. MAGY. KEM. FOLY., 77, NO. 8, 387, 1971 IN HUNGARIAN
- 380 72 032 MENACHE M
VERIFICATION, PAR ANALYSE ISOTOPIQUE, DE LA VALIDITE DE LA METHODE DE COX, MCCARTNEY ET CULKIN
TENDANT A L'OBTENTION D'UN ETALON DE MASSE VOLUMIQUE
DEEP-SEA RES., 18, 449, 1971
- 380 72 033 MILLER AL
A NEW INSTRUMENT FOR N(15) STABLE ISOTOPE STUDIES
AMER. LAB., 3, NO. 12, 37, 1971
- 380 72 034 MISHRA UC SADASIVAN S
RAPID AND ACCURATE METHOD OF ESTIMATING SOIL CONCENTRATIONS OF GAMMA EMITTING ISOTOPES
PP 39-48 OF RADIATION AND RADIOISOTOPES IN SOIL STUDIES AND PLANT NUTRITION. DEPT. OF ATOMIC ENERGY,
BOMBAY, 1971. FROM SYMPOSIUM, BANGALORE, INDIA, DEC. 21, 1970. CONF-701227
- 380 72 035 MOEKEN HH
EMPIRICAL EXPRESSIONS RELATING DEPLETION AND ISOTOPIIC COMPOSITION OF SPENT HIGHLY ENRICHED URANIUM
FUEL
J. NUCL. ENERGY, 26, NO. 2, 105, 1972
- 380 72 036 NEMETS VM SHABDUKARIMOV BA
ISOTOPE ANALYSIS OF SMALL QUANTITIES OF HYDROGEN
VESTN. Leningrad. Univ., NO. 22, FIZ. KHIM., NO. 4, 155, 1970 IN RUSSIAN
- 380 72 037 NO AUTHOR
ISOTOPE ANALYSIS FOR CENTRAL HEATING TUBE
METALLURGIA, 83, NO. 501, 238, 1971
- 380 72 038 OKAMOTO M NOMURA M AIDA M KAKIHANA H
PRECISE AND QUICK MEASUREMENT OF ISOTOPE RATIO U(235)/U(238) USING A VARIAN MAT CH-S MASS
SPECTROMETER
SHITSURYO BUNSEKI (MASS SPECTRY, JAPAN), 20, 73, 1972 IN JAPANESE
- 380 72 039 PAMULA A
C(13)-C(12) MASS SPECTROMETRY ISOTOPE ANALYSIS IN METHANE SAMPLES
STUD. CERCET. FIZ., 24, 507, 1972 IN ROUMANIAN

- 380 72 040 REIN JE ABERNATHEY RM
RAPID MASS SPECTROMETRIC DETERMINATION OF BORON ISOTOPIC DISTRIBUTION IN BORON CARBIDE
TALANTA, 19, 857, 1972
- 380 72 041 RICCI E
DETERMINATION OF C(12), C(13) ISOTOPIC ABUNDANCES AND NITROGEN/CARBON RATIOS IN BIOLOGICAL SUBSTANCES
BY PROTON REACTION ANALYSIS
ANAL. CHEM., 43, 1866, 1971
- 380 72 042 ROTH E BIR R HAGEMANN B
RECENT IMPROVEMENTS IN PRECISE AND ABSOLUTE ISOTOPE RATIO MEASUREMENTS
PP 403-19 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 380 72 043 SCHOTT R BEAU G
QUANTITATIVE ANALYSIS OF HYDROGEN ISOTOPES BY MASS SPECTROMETRY
METHOD. PHYS. ANAL., 7, NO. 2, 165, 1971 IN FRENCH
- 380 72 044 SONODA T NAKAGAWA I NISHIHARA K
SPECTROGRAPHICAL ANALYSIS OF U(235) WITH A HOLLOW CATHODE DISCHARGE TUBE
BUNKO KENKYU (J. SPECTROSC. SOC. JAPAN), 20, NO. 2, 98, 1971 IN JAPANESE
- 380 72 045 SRINIVASAN N RAMANIAH MV JAIN HC MATHEW KA
DETERMINATION OF SPECIFIC ACTIVITY AND ISOTOPIC COMPOSITION OF PLUTONIUM
BARC/1-87, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1970, 6P. INIS
- 380 72 046 STEVENS CM KROUT L
METHOD FOR DETERMINATION OF CONCENTRATION AND OF CARBON AND OXYGEN ISOTOPIC COMPOSITION OF
ATMOSPHERIC CARBON MONOXIDE
J. MASS SPECTRY, ION PHYS., 8, 265, 1972, 18 REFERENCES
- 380 72 047 SURGANOVA NA GORBUSHINA LV SPIRIDONOV AI TYMINSKII VG
EXTRACTION AND RADIOCHEMICAL METHODS IN THE DETERMINATION OF URANIUM ISOTOPES IN GROUND WATERS
IZV. VYSSH. UCHEB. ZAVED., GEOL. RAZVED., 14, NO. 1, 100, 1971 IN RUSSIAN
- 380 72 048 SZY D SEBESSY L BALINT G
DETERMINATION OF THE ISOTOPE RATIO U(234)/U(238) WITH A SCINTILLATION ALPHA-SPECTROMETER
J. RADIOANAL. CHEM., 7, NO. 1, 57, 1971
- 380 72 049 VEHLION C PARK JY
DIRECT ISOTOPIC DETERMINATION BY ATOMIC FLUORESCENCE SPECTROMETRY
ANAL. CHEM., 44, 1473, 1972
- 380 72 050 VETSHTEI VE MIROSHNI AG ARTENCHU VG
METHOD OF PRECISION EXPRESS-ANALYSIS OF HYDROGEN ISOTOPE CONTENT IN NATURAL WATERS
DOPOV. AKAD. NAUK UKR. RSR, SER. B, NO. 7, 632, 1972 IN RUSSIAN
- 380 72 051 VITOL EN ORLOVA KB IVANENKO MA
ALLOWANCE FOR MASS SPECTROMETER BACKGROUND AND THE REPRODUCIBILITY IN DETERMINATION OF ISOTOPE
COMPOSITIONS FOR NITROGEN AND OXYGEN
IND. LAB. USSR (ENGL. TRANS.), P1888, 1971, TRANSLATED FROM ZAVOD. LAB., 37, 1466, 1971
- 380 72 052 WIERNIK M AMIEL S
DETERMINATION OF LITHIUM AND ITS ISOTOPIC COMPOSITION BY ACTIVATION ANALYSIS AND MEASUREMENT OF
LI(8) AND N(17)
J. RADIOANAL. CHEM., 5, NO. 1, 123, 1970
- 385 72 001 BERNAT M CHURCH T ALLEGRE CJ
BARIUM AND STRONTIUM CONCENTRATIONS IN PACIFIC AND MEDITERRANEAN SEA WATER PROFILES BY DIRECT
ISOTOPE DILUTION MASS SPECTROMETRY
EARTH PLANET. SCI. LTRS, 16, 75, 1972
- 385 72 002 BOELRIJK NAIM
COMPARISON OF PRECISION IN SINGLE AND DOUBLE ISOTOPE DILUTION ANALYSIS
ANN. SOC. GEOL. BELG., 94, NO. 2, 105, 1971, CONF-710953-2, FROM EUROPEAN CONFERENCE OF
GEOCHRONOLOGY, BRUSSELS, BELGIUM, SEPT. 6, 1971
- 385 72 003 CHITAMBAR SA SHAH PM MATHEWS CK
DETERMINATION OF RARE EARTHS IN URANIUM BY STABLE ISOTOPE DILUTION
PP 211-15 OF PROCEEDINGS OF THE CHEMISTRY SYMPOSIUM, 1970, VOL. 11, DEPT. OF ATOMIC ENERGY, BOMBAY,
1970. FROM CHEMISTRY SYMPOSIUM, MADRAS, INDIA, NOV. 25, 1970. LUNF=701198(VOL.2)
- 385 72 004 COPINSCH G LECLERCQ R FRANCKO JR
MEASUREMENT OF CORTISOL SECRETION RATE BY ISOTOPE DILUTION TECHNIQUES
J. NUCL. BIOL. MED., 15, NO. 2, 50, 1971
- 385 72 005 FORSDYKE OR
APPLICATION OF ISOTOPE DILUTION PRINCIPLE TO ANALYSIS OF FACTORS AFFECTING INCORPORATION OF
H(3)URIDINE AND H(3)CYTIDINE INTO CULTURED LYMPHOCYTES. EVALUATION OF POOLS IN SERUM AND CULTURE
MEDIA
BIOCHEM. J., 125, 721, 1971
- 385 72 006 GREENLAN LP CAMPBELL EY
DETERMINATION OF NANOGRAM AMOUNTS OF BISMUTH IN ROCKS BY SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS
ANAL. CHIM. ACTA, 60, 159, 1972
- 385 72 007 GUNDERSEN E STEINNES E
DETERMINATION OF IRON IN BIOLOGICAL MATERIALS BY SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS
TALANTA, 18, 1167, 1971
- 385 72 008 HEUMANN KG LIESER KH
MASS SPECTROMETRIC DETERMINATION OF THORIUM IN THE PPM RANGE IN URANIUM ORES BY ISOTOPIC DILUTION
ANALYSIS
Z. ANAL. CHEM., 257, 18, 1971 IN GERMAN
- 385 72 009 KUDO K HISHINUMA N
DETERMINATION OF NICKEL, GOLD, AND SILVER IN GALLIUM ARSENIIDE BY RADIOACTIVATION ANALYSIS BASED ON
THE QUANTITATIVE ISOTOPE DILUTION PRINCIPLE
J. RADIOANAL. CHEM., 6, 331, 1970

- 385 72 010 LOUBET M BERNAT M JAVOY M ALLEGRE CJ
RARE EARTH CONTENTS IN CARBONATITES
EARTH PLANET. SCI. LTRS. 14. 226. 1972
- 385 72 011 MATHEWS CK
STABLE ISOTOPE DILUTION: A POWERFUL ANALYTICAL TECHNIQUE
PP 197-209 OF PROCEEDINGS OF THE CHEMISTRY SYMPOSIUM. 1970. VOL. II. DEPT. OF ATOMIC ENERGY, BOMBAY.
1970. FROM SYMPOSIUM. MADRAS, INDIA. NOV. 25. 1970. CONF-701148(VOL.2). AND J. SCI. IND. RES., 30.
NO. 6. 297. 1971
- 385 72 012 OKADA S TANIGUCHI S
MICROANALYSIS OF LITHIUM BY STABLE ISOTOPE DILUTION METHOD
MASS SPECTRY. JAPAN. 20. 81. 1972 IN ENGLISH
- 385 72 013 POLAK HL
COPRECIPITATION AS A MEANS OF SEPARATION IN SUBSTOICHIOMETRIC ISOTOPE DILUTION ANALYSIS. 1.
J. RADIOANAL. CHEM., 9. NO. 2. XXX. 1971
- 385 72 014 ROSMAN KJR JEFFERY PM
DETERMINATION OF ZINC IN STANDARD REFERENCE MATERIALS BY ISOTOPE DILUTION AND ATOMIC ABSORPTION
ANALYSIS
CHEM. GEOL., 8. 25. 1971
- 385 72 015 SAKSONOVA LN BURTSEV VT MAKSIMOV DI (1)
PHYSICO-CHEMICAL PROCESSES DURING THE DETERMINATION OF OXYGEN IN METALS BY THE ISOTOPE DILUTION
METHOD. 1. A STUDY OF THE KINETICS OF GAS LIBERATION. 2. DISTRIBUTION OF OXYGEN IN THE REACTION
SYSTEM AMONG GAS, LIQUID, AND SOLID PHASES
ZH. ANAL. KHIM., 26. 1360 AND 2441. 1971 IN RUSSIAN
- 385 72 016 SHIMADA K MATSUMOTO U NAGASE Y
STUDIES ON LABELING AND APPLICATION TO MICROANALYSIS OF BIOTIN RELATED COMPOUNDS. 5. ISOTOPE
DILUTION ANALYSIS OF D-DETHIOBIOTIN INCORPORATED AND D-BIOTIN PRODUCED BY ASPERGILL
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN). 92. 575. 1972
- 385 72 017 TAKAHASHI M MATSUDA Y TOITA Y OUCHI M KOMORI T
DETERMINATION OF TRACES OF URANIUM IN SODIUM AFTER VACUUM DISTILLATION OF SODIUM: ISOTOPE DILUTION
AND SPECTROPHOTOMETRIC METHODS
BUNSEKI KAGAKU (JAPAN ANALYST). 20. 1085. 1971 IN JAPANESE
- 385 72 018 TOELGYESSY J BRAUN T KYRS M
ISOTOPE DILUTION ANALYSIS
BOOK, PERGAMON PRESS, OXFORD, ENGLAND. 1972. 194P. 6 CHAPTERS
- 385 72 019 VITOL EN ORLOVA KB NIKOLAEV GI ANTIPOV VS
DETERMINATION OF OXYGEN AND NITROGEN IN METALS USING FLUXES ENRICHED WITH O(18) AND N(15) ISOTOPES
ZH. ANAL. KHIM., 26. 777. 1971 IN RUSSIAN
- 385 72 020 WHITELAW FG BROCKWAY JM REID RS
MEASUREMENT OF CARBON DIOXIDE PRODUCTION IN SHEEP BY ISOTOPE DILUTION
QUART. J. EXP. PHYSIOL., 57. 37. 1972
- 385 72 021 ZILVERSM DB
SINGLE BLOOD SAMPLE DUAL ISOTOPE METHOD FOR MEASUREMENT OF CHOLESTEROL ADSORPTION IN RATS
PROC. SOC. EXP. BIOL. MED., 140. 862. 1972
- 385 72 022 ZIMAKOV IE ATRASHKEVICH VV POMERANTSEVA AV
- DETERMINING MICROAMOUNTS OF SUBSTANCES BY THE ISOTOPE DILUTION METHOD
ZH. ANAL. KHIM., 26. 1091. 1971 IN RUSSIAN
- 390 72 001 ALEKSANDROV AP ALIEV MR ALEKSANYAN VT
ISOTOPIC RELATIONSHIPS BETWEEN CENTRIFUGAL DISTORTION CONSTANTS OF POLYATOMIC MOLECULES
OPT. SPECTROSC. USSR (ENGL. TRANS.). 29. 568. 1970. TRANSLATED FROM OPT. SPEKTROSK., 29. 1064. 1970
- 390 72 002 ARENAS J PARELLADA R
N(15) ISOTOPIC EFFECTS ON THE INFRARED SPECTRUM OF UREA (N(15)H2CON(14)H2 AND N(15)H2CON(15)H2)
J. MOL. STRUCT., 10. 253. 1971
- 390 72 003 BALLENEGGER M RUF A GAEMANN T
STRAHLUNGSCHEMIE VOM KOHLENWASSERSTOFFEN. 19. DIE DEUTERIUMABSPALUNG IN ISOTOP-ISOMEREN
CYCLOHEXANEN
HELV. CHIM. ACTA. 54. 1373. 1971
- 390 72 004 BARB D MORARIU M
MOESSBAUER ISOTOPE TABLES
IFA-NR-9. INSTITUTUL DE FIZICA ATOMICA. BUCHAREST, ROMANIA. 1972. 57P. NTIS
- 390 72 005 BASOV YG PANCHENK GM
ISOTOPIC EFFECTS OF RELAXATION PROCESSES IN GASES
ZH. FIZ. KHIM., 45. 1309. 1971 IN RUSSIAN
- 390 72 006 BELLET J DELDALLE A SANSON C STEENBECKELIERS G WERTHEIMER R
STUDY OF THE ROTATION SPECTRA OF THE FORMIC ACID MOLECULE. 8. STUDY OF SOME ISOTOPIC SUBSTITUTIONS.
APPLICATION TO THE DETERMINATION OF THE STRUCTURE OF THE MOLECULE
J. MOL. STRUCT., 9. 65. 1971 IN FRENCH
- 390 72 007 BIGEISEN J ISHIDA T (1) SPINDEL W (1)
1. CORRELATION OF ISOTOPE EFFECTS WITH MOLECULAR FORCES. II. TRIATOMIC MOLECULES. 2. FUNDAMENTAL
STUDIES IN ISOTOPE CHEMISTRY
1. J. CHEM. PHYS., 55. 5021. 1971. 2. COO-3498-2. PROGRESS REPORT, JULY 1971 - JULY 1972. ROCHESTER
UNIV., N.Y. ESP
- 390 72 008 BOYER PD
ISOTOPIC STUDIES ON STRUCTURE-FUNCTION RELATIONSHIPS OF NUCLEIC ACIDS AND ENZYMES
UCLA-34-P-102-29. PROGRESS REPORT, MAY 1971 - MAY 1972. CALIFORNIA UNIV., LOS ANGELES. 10P. NTIS
- 390 72 009 BRODSKII AM TEMKIN AY
KINETIC ISOTOPE EFFECT OF REACTIONS OF HOT ATOMS IN GASEOUS MIXTURES
HIGH ENERGY CHEM. USSR (ENGL. TRANS.). 4. NO. 6. 451. 1970. TRANSLATED FROM KHIM. VYS. ENERG., 4.
NO. 6. 499. 1970

- 390 72 010 CLARK WG SETSER DW DEES K
NONEQUILIBRIUM KINETIC ISOTOPE EFFECTS AND OTHER ASPECTS OF MODELS FOR HCL AND DCL ELIMINATION FROM
CHLORODETHANE-D0, D3, AND D5
JACS, 93, 5328, 1971
- 390 72 011 COLLINS CJ BOWMAN NS
ISOTOPE EFFECTS IN CHEMICAL REACTIONS
BOOK. ACS MONOGRAPH. VAN NOSTRAND REINHOLD COMPANY, NEW YORK, 1970. 442P. 6 CHAPTERS
- 390 72 012 DIDERICH G DAHN H
ACID HYDROLYSIS OF P-NITROPHENYLDIAZOMETHANE IN H2O-D2O MIXTURES: ANALYSIS OF THE ISOTOPIC EFFECTS
HELV. CHIM. ACTA. 55, 1, 1972 IN FRENCH
- 390 72 013 EPPSTEIN LB
ISOTOPE EFFECTS IN LIQUID DIFFUSION
THESIS. TEXAS CHRISTIAN UNIV., FORT WORTH, TEXAS, 1971. 100P. UNIV. MICROFILMS ORDER NO. 71-29,609
- 390 72 014 FRY A
HEAVY ATOM ISOTOPE EFFECTS IN ORGANIC REACTION MECHANISM STUDIES
PP 364-414 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS. COLLINS, C.J. (ED.). VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 192 REFERENCES
- 390 72 015 GELLAI B JANCZO G
APPLICATION OF THE MINIMAX APPROXIMATION TO THE ISOTOPE EFFECT ON HEAT CAPACITY OF IDEAL GASES
KFKI-71-70. MAGYAR TUDOMANYS AKADEMIA KOZPONTI FIZIKAI KUTATC INTEZETE, BUDAPEST, 1971. 11P. NTIS
- 390 72 016 GIRARD G MENACHE M
VARIATION DE LE MASSE VOLUMIQUE DE L'EAU EN FONCTION DE SA COMPOSITION ISOTOPIQUE
METROLOGIA, 7, NO. 3, 83, 1971
- 390 72 017 GLUZMAN MK DASHEVSKAYA BI KOGAN VS
ISOTOPE EFFECT IN TEMPERATURE OF DEHYDRATION OF SOME ORGANIC COMPOUNDS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 644, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1151, 1971
- 390 72 018 GORENSTE DG
OXYGEN-18 ISOTOPE EFFECT IN HYDROLYSIS OF 2,4-DINITROPHENYL PHOSPHATE. A MONOMERIC METAPHOSPHATE
MECHANISM
JACS, 94, 2523, 1972
- 390 72 019 GUCZI L SARKANY A TETENYI P
ISOTOPE EFFECT STUDY IN CATALYTIC EXCHANGE OF ETHANE
Z. PHYS. CHEM. (FRANKFURT), 74, 26, 1971
- 390 72 020 HALEVI EA
POLARIZATION DIFFERENCES BETWEEN ISOTOPIC MOLECULES
INT. J. QUANT. CHEM., SYMP., NO. 5, 367, 1971. FROM INTERNATIONAL SYMPOSIUM ON ATOMIC, MOLECULAR,
AND SOLID-STATE THEORY AND QUANTUM BIOLOGY, SANIBEL ISLAND, FLORIDA, JAN. 18, 1971
- 390 72 021 HASTIE JW PLANTE ER
ENTROPY IN ISOTOPIC SYSTEMS
HIGH TEMP. SCI., 3, 412, 1971
- 390 72 022 HECKNER K GRUPE K LANDSBER R
KINETIK UND MECHANISMUS DER OXYDATIONSREAKTIONEN DES CHROM(VI). 3. SOLVENTEINFLUSS AUF DIE
GESCHWINDIGKEITSKONSTANTEN UND ISOTOPIEEFFEKTE BEI DER OXYDATION SEKUNDARER ALKOHOLE DURCH
CHROM(VI)
J. PRAKT. CHEM., 313, 161, 1971
- 390 72 023 HOLLENST H GUNTARD HH
SOLID STATE AND GAS INFRARED SPECTRA AND NORMAL COORDINATE ANALYSIS OF 5 ISOTOPIC SPECIES OF
ACETALDEHYDE
SPECTROCHIM. ACTA, 27A, 2027, 1971
- 390 72 024 IMANOTO T KIM S TSUNO Y YUKAWA Y
HOFMANN REARRANGEMENT. 4. KINETIC ISOTOPE EFFECT OF N-CHLOROBENZAMIDE
BULL. CHEM. SOC. JAPAN, 44, 2776, 1971
- 390 72 025 IONESCU-BAILAS NJ
EFFECTS DUE TO ISOTOPIC CHANGE OF MASS (REVIEW)
STUD. CERCET. FIZ., 22, 897-934, 1970 IN RUMANIAN. 40 REFERENCES
- 390 72 026 KATZ JJ CRESPI HL
ISOTOPE EFFECTS IN BIOLOGICAL SYSTEMS
PP 286-363 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS. COLLINS, C.J. (ED.). VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 352 REFERENCES
- 390 72 027 KNYAZEV DA IVLEV AA DENISOV DA PEOBRAGENSKAYA LB
EQUILIBRIUM ISOTOPE EFFECTS OF COMPLEX COMPOUNDS
ISOTOPENPRAKIS, 6, 471, 1970
- 390 72 028 LINTERMANS J
HOT ATOM CHEMISTRY OF CARRON-14 IN SOLID BENZENE AT KINETIC ENERGIES AT OR BELOW 5 ELECTRON VOLTS
J. PHYS. CHEM., 76, 2521, 1972
- 390 72 029 MCKINNEY FE BAKER PS
SPECIAL SOURCES OF INFORMATION ON ISOTOPES
ORNL-11C-12(SUPPL.), OAK RIDGE NATIONAL LAB., TENN., MAY 1972. 61P. NTIS
- 390 72 030 NO AUTHOR
ISOTOPE CHEMISTRY
PP 91-9 OF ORNL-4706, OAK RIDGE NATIONAL LAB., TENN., SEPT. 1971. IN CHEMISTRY DIVISION ANNUAL
PROGRESS REPORT FOR PERIOD ENDING MAY 20, 1971
- 390 72 031 NO AUTHOR
1. IODINE ISOTOPES I31 (I(131)): A LITERATURE SEARCH. 2. CHROMIUM ISOTOPES-CR(51): A LITERATURE
SEARCH
1. PAEC(A)IN-716, JULY 1971, 334P. 2. PAEC(A)-719, OCT. 1971, 124P. PHILIPPINE ATOMIC ENERGY
COMMISSION, MANILA, NTIS

- 390 72 032 NO AUTHOR
INTERPOLATED VALUES FOR THE SCHEDULE OF BASE CHARGES AND THE STANDARD TABLE OF ENRICHING SERVICES
TID-21015(REV.3), OAK RIDGE OPERATIONS OFFICE, AEC, TENN., PRODUCTION DIV., AUG. 1971. 245P. NTIS
- 390 72 033 NO AUTHOR
ISOTOPIC EFFECT IN THE KINETIC ION-ELECTRON EMISSION OF A SILICON CRYSTAL
PP 50-6 OF VYDRICHNO-EMISSIONNYE I STRUKTURNYE SVOISTVA TVERDYKH TEL. ARIFOV, U.A. (ED.), IZDATEL'
STVO FAN UZBEKSKOI SSR, TASHKENT, 1970. IN RUSSIAN
- 390 72 034 O'LEARY MH KLUETZ MD
NITROGEN ISOTOPE EFFECTS ON CHYMOTRYPSIN CATALYZED HYDROLYSIS OF N-ACETYL-L-TRYPTOPHANAMIDE
JACS, 94, 3585, 1972
- 390 72 035 PAGDEN IMH PEARSON GJ BEWERS JM
AN ISOTOPE CATALOGUE FOR INSTRUMENTAL ACTIVATION ANALYSIS. I.
J. RADIOANAL. CHEM., 8, 127, 1971
- 390 72 036 PANDEY GC PILLAI NV SHARMA T
INTRAMOLECULAR ISOTOPE EFFECT IN THE ACID DECOMPOSITION OF CARBONATES
Z. PHYS. CHEM. (LEIPZIG), 246, NO. 5-6, 297, 1971
- 390 72 037 PERIE M PERIE J
EFFETS ISOTOPIQUES DE MIGRATION D'IONS ALCALINS EN SOLUTIONS SULFURIQUES
J. CHIM. PHYS., 69, 978, 1972
- 390 72 038 PINCHAS S SHAMIR J
ANOMALOUS BEHAVIOR OF O(18)-LABELED COMPOUNDS. 6. VIBRATIONAL SPECTRA OF ISOTOPIC METABORATES
J. CHEM. PHYS., 56, 2017, 1972
- 390 72 039 RAAEN HP
ENVIRONMENTS AND ISOTOPES
ORNL-11C-39, OAK RIDGE NATIONAL LAB., TENN., JULY 1972. 118P. NTIS
- 390 72 040 RAHN F CAMARDA HS HACKEN G
NEUTRON RESONANCE SPECTROSCOPY. 9. SEPARATED ISOTOPES OF SAMARIUM AND EUROPIUM
PHYS. REV., 6C, 251, 1972
- 390 72 041 ROCCHICCIOLI-DELT C
LES ISOTOPES (ISOTOPES) 2ND EDITION (RADIOISOTOPES)
BOOK, PRESSES UNIVERSITAIRES DE FRANCE, PARIS, 1971. 128P
- 390 72 042 SARPAL SK GUPTA AR SHANKAR J
EQUILIBRIUM NITROGEN AND OXYGEN ISOTOPE EFFECTS IN GLYCINE/GLYCINATE AND GLYCINE/GLYCINIUM SYSTEMS
INDIAN J. CHEM., 9, 682, 1971
- 390 72 043 SCHREIBER RE
IONS AT LASL: A PROPOSAL TO THE AEC DIVISION OF BIOLOGY AND MEDICINE FOR THE PRODUCTION AND USE OF
SEPARATED ISOTOPES OF CARBON, OXYGEN, NITROGEN, AND SULFUR
LA-4759, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, SEPT. 1971. 18P. NTIS
- 390 72 044 SCHUBERT WM LEFEVRE PH
INTERNALLY COMPETITIVE CH₃ VS CD₃ MIGRATION AND KINETIC ISOTOPE EFFECTS. A MEANS OF DETERMINING
WHETHER OR NOT METHYL MIGRATION OCCURS IN THE RATE CONTROLLING STEP
JACS, 94, 1639, 1972
- 390 72 045 SELINOV IP
- IZOTOPY. III. BIBLIOGRAFIYA SPRAVOCHNYE TABLITSY. (ISOTOPES. III. BIBLIOGRAPHIES AND REFERENCE
TABLES)
BOOK, IZDATEL'STVO NAUKA, MOSCOW, 1970. 256P. OVER 10,000 REFERENCES
- 390 72 046 SHUE RS
ISOTOPE EFFECTS IN THE ARYLATION OF OLEFINS WITH PALLADIUM(II) ACETATE. THE MECHANISM OF OLEFIN
ARYLATION
JACS, 93, 7116, 1971
- 390 72 047 STACEY DN
ISOTOPE SHIFTS AND NUCLEAR PHYSICS
PP 105-11 OF ATOMIC PHYSICS 2, SANDARS, P.G.H. (ED.), PLENUM PRESS, LONDON, 1971. 20 REFERENCES.
FROM 2ND INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, JULY 21, 1970
- 390 72 048 STEPANOVA ND STEPANOV AV
ISOTOPE EFFECTS IN THE MOBILITIES OF CA(40) AND CA(45) IN SOLUTIONS OF AMMONIUM CHLORIDE AND CITRIC
ACID
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 643, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1148, 1971
- 390 72 049 STERN MJ VOGEL PC
RELATIVE C(14)-C(13) KINETIC ISOTOPE EFFECTS
J. CHEM. PHYS., 55, 2007, 1971
- 390 72 050 STERN MJ WOLFSBERG M
HEAVY ATOM KINETIC ISOTOPE EFFECTS: AN INDEXED BIBLIOGRAPHY
NBS-SPEC.PUBL-349, NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., JUNE 1972. 37P. GPO. COM-72-5080
- 390 72 051 STOTHERS JB
C(13) NMR SPECTROSCOPY: A BRIEF REVIEW
APPL. SPECTROSC., 26, 1-16, 1972. 64 REFERENCES
- 390 72 052 STRAUSS OP SAFARIK I O'CALLAGHAN WB GUNNING HE
REACTIONS OF SULFUR ATOMS. 13. EXPERIMENTAL AND CALCULATED SECONDARY HYDROGEN-DEUTERIUM KINETIC
ISOTOPE EFFECT FOR THE S(3IP) + ETHYLENE REACTION
JACS, 94, 1828, 1972
- 390 72 053 STRINGHAM WS
CARBON-13: A SELECTED ABSTRACT BIBLIOGRAPHY
MLM-1913, MOUND LAB., MIAMISBURG, OHIO, MAY 1972. 205P. 627 SELECTED REFERENCES
- 390 72 054 THORTON EK THORTON ER
ORIGIN AND INTERPRETATION OF ISOTOPE EFFECTS
PP 213-85 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS, COLLINS, C.J. (ED.), VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 134 REFERENCES

- 390 72 055 UHLIG K
DEVELOPMENT OF ISOTOPE AND RADIATION TECHNIQUES IN THE GERMAN DEMOCRATIC REPUBLIC
ISOTOPENPRAXIS, 7, NO. 7, 251, 1971
- 390 72 056 VAN HOOK WA
KINETIC ISOTOPE EFFECTS: INTRODUCTION AND DISCUSSION OF THE THEORY
PP 1-89 OF ISOTOPE EFFECTS IN CHEMICAL REACTIONS. COLLINS, C.J. (ED.). VAN NOSTRAND REINHOLD CO.,
NEW YORK, 1970. 157 REFERENCES
- 390 72 057 WALL NS
DISCUSSION OF ROLE OF DISPERSION EFFECTS ON ISOTOPIC CHARGE DENSITY VARIATIONS
ANN. PHYS. (N.Y.), 66, 790, 1971
- 390 72 058 ZADUBAN M FRANZ H
POSSIBILITIES OF RADIOMETRIC DETERMINATION OF ISOTOPE EFFECTS
J. RADIANAL. CHEM., 6, 309, 1970 IN GERMAN
- 390 72 059 ZIELINSKI M
C(13) ISOTOPE EFFECTS IN OXIDATION REACTIONS OCCURRING IN THE CO-O₂-NO TERNARY SYSTEM
NUKLEONIKA, 16, NO. 5-6, 191, 1971 IN POLISH
- 390 72 060 ZIESOW D
TORREY OSCILLATIONS IN HETERONUCLEAR DOUBLE RESONANCE. DESCRIPTION OF THE METHOD AND ITS
APPLICATIONS FOR C-13 MONO AND DI-SUBSTITUTED MOLECULES OF NATURAL ABUNDANCE
N71-31318. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1969
- 390 72 061 ZIMMERMAN WB
LATTICE-CONSTANT DEPENDENCE ON ISOTOPIC COMPOSITION IN LI(7)(H,D) SYSTEM
PHYS. REV., 5B, 4704, 1972
- 395 72 001 AINSLIE GR CLELAND WW
ISOTOPE EXCHANGE STUDIES ON LIVER ALCOHOL DEHYDROGENASE WITH CYCLOHEXANOL AND CYCLOHEXANONE AS
REACTANTS
J. BIOL. CHEM., 247, 946, 1972
- 395 72 002 AMER F RAMY A
ON POSSIBILITY OF CHARACTERIZING CALCIUM PHOSPHATES IN CALCAREOUS SOILS BY ISOTOPIC EXCHANGE
J. SOIL SCI., 22, 267, 1971
- 395 72 003 ANDREEV BM GUMENYUK TD SEL'VENSII YD MERETSKII AM
INVESTIGATION OF THE KINETICS OF OXYGEN ISOTOPIC EXCHANGE BETWEEN WATER AND CARBON DIOXIDE IN THE
PRESENCE OF SOLUBLE ADDITIVES
ISOTOPENPRAXIS, 7, NO. 5, 180, 1971 IN RUSSIAN
- 395 72 004 ATKINSON RJ POSNER AM QUIRK JP
KINETICS OF ISOTOPIC EXCHANGE OF PHOSPHATE AT ALPHA-FORM-AQUEOUS SOLUTION INTERFACE
J. INORG. NUCL. CHEM., 34, 2201, 1972
- 395 72 005 BEHRENS H LOPEZ A ALAMOS P PALMA T
ISOTOPIC EXCHANGE IN THE EVALUATION OF THE FERTILITY OF VOLCANIC SOILS
PP 290-5 OF CONF-680423, CHILE UNIV., SANTIAGO, LABORATORIO DE RADIOQUIMICA, IN SPANISH, FROM 2ND
INTERAMERICAN CONFERENCE ON RADIOCHEMISTRY, MEXICO CITY, MEXICO, APRIL 22, 1968
- 395 72 006 BENES J VULTERIN K KOLINA J
ISOTOPIC EXCHANGE OF THIOUREA AND ITS DERIVATIVES WITH S(35)
- RADIOISOTOPE, 12, 1029, 1971. FROM 6TH RADIOCHEMICAL CONFERENCE, MARIANSKE LAZNE, CZECHOSLOVAKIA,
MAY 1971
- 395 72 007 BLANCHARD M LOUGUET G BORESKOV GK MUZYKANTOV VS PANDV GI
ISOTOPIC OXYGEN EXCHANGE BY CATALYSTS IN THE V2O5-MOD3 SERIES
BULL. SOC. CHIM. FRANCE, P814, 1971 IN FRENCH
- 395 72 008 BROWN LM SHERRY HS KRAMBECK FJ (1)
MECHANISM AND KINETICS OF ISOTOPIC EXCHANGE IN ZEOLITES. 1. THEORY. 2. EXPERIMENTAL DATA
J. PHYS. CHEM., 75, 3846 AND 3855, 1971
- 395 72 009 BUTON CA KHALEELU K WHITTAKER O
RACEMISATION AND OXYGEN EXCHANGE REACTIONS OF TRIMETHYLNORBORNAN-2-OLS
J. CHEM. SOC., PERKIN TRANS., II, P1154, 1972
- 395 72 010 DAMRAUER L MILBURN RM
KINETICS OF OXYGEN EXCHANGE, RACEMIZATION, AND AQUATION IN TRIS(OXALATO)RHODATE(III) ION
JACS, 93, 6481, 1971
- 395 72 011 DEVIENNE MFM
A ECHANGES ISOTOPIQUES PRODUITS PAR UN JET MOLECULAIRE DE HAUTE ENERGIE. UTILISATION EN
SPECTROSCOPIE DE MASSE
COMPT. REND., SER. C, 274, 1325, 1972 IN FRENCH
- 395 72 012 DOMINEY DA WICKHAM AJ
GAMMA-RADIATION INDUCED ISOTOPE EXCHANGE IN THE CARBON MONOXIDE-CARBON DIOXIDE SYSTEM. STUDIES IN
SILICA VESSELS
TRANS. FARADAY SOC., 67, 2598, 1971
- 395 72 013 ELIAS H VOSS H WANNOWIU KJ
MECHANISM OF RADIATION INDUCED ISOTOPIC EXCHANGE BETWEEN IODOBENZENE AND IODINE IN BENZENE
Z. NATURFORSCH., 27b, 729, 1972
- 395 72 014 EVERLY CR FRY A
KINETIC STUDY OF THE N(15) EXCHANGE OF PARA-SUBSTITUTED BENZAMIDES WITH AMMONIA
J. ORG. CHEM., 36, 3587, 1971
- 395 72 015 FOTI S
CONCENTRATION OF BROMIDE IONS IN SEAWATERS BY ISOTOPIC EXCHANGE WITH MERCUROSUS BROMIDE
AD-746 135. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 395 72 016 FRAIDENRAICH N CEREJIDO M
KINETIC ANALYSIS OF ISOTOPIC EXCHANGE IN A SYSTEM OF CONCENTRIC CYLINDERS
J. THEOR. BIOL., 32, 107, 1971

- 395 72 017 FRANCIS DJ JORDAN RB
KINETIC STUDY OF OXYGEN EXCHANGE OF SODIUM BICARBONATE AND CARBONATOPENTAAMINE COBALT(III)
INORG. CHEM., 11, 1170, 1972
- 395 72 018 GABRIELS A BERONIUS P
NANOGRAM DETERMINATION OF IODIDE BY MEANS OF ISOTOPE EXCHANGE
ANAL. CHIM. ACTA, 61, 123, 1972
- 395 72 019 GAMSJAGE M GRUTTER A BAERTSCH P
KINETICS OF OXYGEN EXCHANGE IN SYSTEM BRQ3(-)-H₂O(D₂O)
HELV. CHIM. ACTA, 55, 781, 1972
- 395 72 020 GAUS H LEVI HW LUTZE W
ION AND ISOTOPIC EXCHANGE AMONG SOLIDS
J. PHYS. CHEM., 76, 1317, 1972
- 395 72 021 GERSTER R
ISOTOPIC EXCHANGE BETWEEN CO₂ AND H₂O AND LABELLING KINETICS OF PHOTOSYNTHETIC OXYGEN
CEA-R-4256, THESIS, UNIV. OF AIX-MARSEILLES, FRANCE, SEPT. 1971, 140P IN FRENCH, COMMISSARIAT A L'
ENERGIE ATOMIQUE, CADARACHE, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 395 72 022 GLENTWOR P NEWTON DA
A KINETIC STUDY OF ISOTOPIC EXCHANGE REACTIONS BETWEEN YTTRIUM IONS AND YTTRIUM POLYAMINOCARBOXYLIC
ACID COMPLEX IONS
J. INORG. NUCL. CHEM., 33, 1701, 1971
- 395 72 023 GOFF H MURMANN RK
STUDIES ON THE MECHANISM OF ISOTOPIC OXYGEN EXCHANGE AND REDUCTION OF FERRATE(VI) ION (FeO₄(-2))
JACS, 93, 6058, 1971
- 395 72 024 GORENSTE DG
PH-RATE PROFILES FOR OXYGEN-18 EXCHANGE AND EPIMERIZATION OF A PHOSPHETANE OXIDE, RATE LIMITING
PSEUDORDINATION
JACS, 94, 2808, 1972
- 395 72 025 GUTMAN EE MIASNIKO IA
USE OF SEMICONDUCTOR METHOD FOR STUDY OF OXYGEN GASEOUS EXCHANGE IN GREEN LEAF UNDER ANAEROBIC
CONDITIONS
DOKL. AKAD. NAUK SSSR, 203, 1422, 1972
- 395 72 026 HAYAMI J TANAKA N KURABAYASHI S KOTANI Y KAJI A
SIN² REACTIONS IN DIPOLAR APROTIC SOLVENTS. CHLORINE ISOTOPIC EXCHANGE REACTIONS OF 2-ARYLETHYL
CHLORIDES, CHLOROMETHYL ARYL ETHERS, AND CHLOROMETHYL ARYL SULFIDES IN ACETONITRILE
BULL. CHEM. SOC. JAPAN, 44, 3091, 1971
- 395 72 027 HECKNER KH RUHTENBERG WD
1. NEW METHOD FOR DETERMINATION OF ISOTOPE EXCHANGE REACTIONS BASED ON SUPERPOSITION OF KINETICS AND
DIFFUSION: SIMULATION ON AN ANALOG COMPUTER. 2. DEVELOPMENT OF A NEW METHOD FOR INVESTIGATION OF
ISOTOPE EXCHANGE INTERMEDIATE PROCESSES BASED ON OVERLAPPING OF DIFFUSION AND EXCHANGE (A
MATHEMATICAL SIMULATION ON AN ANALOG CALCULATOR)
Z. CHEM., 11, NO. 7, 273, 1971 AND ISOTOPENPRAXIS, 7, NO. 9, 384, 1971 IN GERMAN
- 395 72 028 HEUMANN KG LIESER KH (1)
1. INVESTIGATION OF ISOTOPIC EFFECTS OF CALCIUM IN HETEROGENEOUS EXCHANGE EQUILIBRIA. 2. ISOTOPIC
EFFECTS OF CALCIUM BY ION EXCHANGE USING DOWEX AL RESIN
Z. NATURFORSCH., 27b, 126, 1972 AND DOKL. AKAD. NAUK SSSR, 204, 492, 1972
- 395 72 029 HUANG T LI K HOO S
MECHANISM OF ISOTOPIC EXCHANGE REACTION BETWEEN CALCIUM ION AND CALCIUM OXALATE
J. INORG. NUCL. CHEM., 34, 47, 1972
- 395 72 030 IVANOVA TF FEDOROV VV
HETEROGENEOUS EXCHANGE OF NITROGEN ISOTOPES IN MIXTURES
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 1471, 1971, TRANSLATED FROM ZH. FIZ. KHIM., 45, 2601, 1971
- 395 72 031 KOBAYASHI M MINATO M OGI Y
OXYGEN EXCHANGE OF BENZENESULFINIC ACIDS IN WATER
BULL. CHEM. SOC. JAPAN, 45, 1224, 1972
- 395 72 032 KRYNKOV Y SMIRNOVA RM FRIDMAN RA
ON CATALYTIC OXYGEN EXCHANGE BETWEEN ETHANOL AND WATER ON A MELTED IRON CATALYST
KINET. KATAL., 12, 782, 1971
- 395 72 033 KULEVA NV MURAHOD A PANTELEEN
EFFECT OF P-NITROTHIOPHENYLATION OF MYOSIN ON ISOTOPE EXCHANGE OF OXYGEN IN MYOSIN-ATP-H₂O(18)
SYSTEM
BIOKIMIYA, 36, 857, 1971
- 395 72 034 LAZZARIN E FANTOLA LA
AN EXPERIMENTAL INVESTIGATION ON SOLID STATE ISOTOPIC EXCHANGE MODEL FOR ANNEALING OF
SZILARD-CHALMERS RECOILS
J. INORG. NUCL. CHEM., 34, 817, 1972
- 395 72 035 LEVI HW LUTZE W MALOW G SEDIGHI N
ISOTOPIC EXCHANGE BETWEEN GLASSES AND NONAQUEOUS LIQUIDS
PHYS. STATUS SOLIDI, 5A, 617, 1971
- 395 72 036 LIESER KH
KINETICS OF HETEROGENEOUS ISOTOPE EXCHANGE REACTIONS
MLM-1873(17), TRANSLATED FOR MOUND LAB., MARIETTA, OHIO, FROM MONATSH. CHEM., 101, 1630, 1970,
13P, NTIS
- 395 72 037 MARCOPOU CA PERTESSI KE GEORGOPOU K
KINETICS OF ISOTOPIC EXCHANGE IN POLYHALOGEN AROMATIC SYSTEMS. 1. EXCHANGE BETWEEN EGGSIN AND
BROMIDES IN ETHANOL. 2. EXCHANGE BETWEEN ERYTHROSIN AND IODIDES IN ETHANOL
Z. PHYS. CHEM. (LEIPZIG), 249, 21, 1972
- 395 72 038 MAYER ZU BEXTEN JH
HETEROGENEOUS ISOTOPE EXCHANGE BETWEEN GERMANIUM DIOXIDE AND GASEOUS OXYGEN
N71-15983, TECHNISCHE HOCHSCHULE, HANNOVER, WEST GERMANY, 118P IN GERMAN

- 395 72 039 MILES JC DEATON RL WIEDENHEFT CJ
OXYGEN ISOTOPE EXCHANGE OF PU(238)O₂
MLM-1891. MOUND LAB., MIAMISBURG, OHIO, FEB. 1972. 22P
- 395 72 040 NISHCHEN YA ADAMIYA TV GELBSHTE AI
MOBILITY OF SURFACE OXYGEN IN CERTAIN OXIDES, ESTIMATED BY ISOTOPE EXCHANGE TECHNIQUE
KINET. KATAL., 13. 256, 1972
- 395 72 041 MURMANN RK
RED4(-)-H₂O EXCHANGE KINETICS IN METHANOL USING O(18)
JACS, 93. 4184, 1971
- 395 72 042 MUZYKANT VS PANOVA GI (1) POPOVSKI VV (2) BGRESKOV GK (2)
1. MOBILITY OF SURFACE OXYGEN IN CERTAIN OXIDES ESTIMATED BY ISOTOPE EXCHANGE TECHNIQUE. 2.
REACTIVITY OF OXYGEN ON COMPLEX OXIDE SURFACES. III. ISOTOPIC OXYGEN EXCHANGE WITH FERROSPINELS
KINET. KATAL., 13. 253 AND 385, 1972
- 395 72 043 NEFEDOV VO SINOVA EN SARBASH AN KOLOBOV EA KAPUSTIN VK
STUDY OF THE KINETICS OF ISOTOPIC EXCHANGE IN THE SYSTEM (C₆H₅)₂TE-(C₆H₅)₂TEX-CHCL₃ FOR VARIOUS
HALO DERIVATIVES
SOV. RADIOCHEM. (ENGL. TRANS.), 13. 450, 1971. TRANSLATED FROM RADIOKHIMIYA, 13. 435, 1971
- 395 72 044 OCONNOR CJ TURNER TA BRIDSON ME
CARBOXYLIC ACIDS: CORRELATION OF CARBONYL FREQUENCY WITH O(18) EXCHANGE
NATURE, PHYS. SCI., 237. 128, 1972
- 395 72 045 OLANDER DR
OXYGEN REDISTRIBUTION IN UO(SUB 2+X)
J. NUCL. MATER., 44. 116, 1972
- 395 72 046 OOKUNI I FRY A
HYDROGEN CHLORIDE CATALYZED O(18) EXCHANGE BETWEEN PARA-SUBSTITUTED PHENYLMETHYL SULFOXIDES AND
WATER
J. ORG. CHEM., 36. 4097, 1971
- 395 72 047 PAXSON JR MARTIN OS
AQUATION EQUILIBRIUM AND ISOTOPIC EXCHANGE OF CHLORIDE FOR CHLORO(DIETHYLENETRIAMINE) PLATINUM(III)
CHLORIDE
INORG. CHEM., 10. 1551, 1971
- 395 72 048 PLONSKI IH
THEORY OF ISOTOPIC EXCHANGE BY THE MECHANISM OF ELECTRON TRANSFER. 1. ONE STEP OF ELECTRON TRANSFER.
2. TWO STEP ELECTRON TRANSFER
REV. ROU. PHYS., 16. 875 AND 989, 1971
- 395 72 049 POPOVSKI VV BORESNOV GK MUZYKANT VS
ISOTOPIC OXYGEN EXCHANGE AND CATALYTIC ACTIVITY OF SOLID NiO SOLUTIONS IN NiO RELATIVE TO
HYDROCARBON OXIDATION
KINET. KATAL., 13. 727, 1972
- 395 72 050 RACHNER R
ON EXCHANGE OF OXYGEN BETWEEN SULFATE AND WATER
INORG. CHEM., 11. 1162, 1972
- 395 72 051 RAHMAN MK BARRETT J
MECHANISM OF ISOTOPIC EXCHANGE IN A HETEROGENEOUS SYSTEM

J. CHROMATOGR., 69. 261, 1972
- 395 72 052 SAZONOV LA MITROFAN GN PREOBRAZ LV
ACTIVATION ENERGIES FOR MONOMOLECULAR OXYGEN EXCHANGE OVER CERTAIN RARE EARTH OXIDES
KINET. KATAL., 13. 789, 1972
- 395 72 053 SERVIAN JL BUENAFAMA MD
ISOTOPIC EXCHANGE BETWEEN SILVER(I) AND SILVER IN VARIOUS STAGES OF OXIDATION
PP 195-200 OF CONF-680423. FROM 2ND INTERAMERICAN CONFERENCE ON RADIOCHEMISTRY, MEXICO CITY, MEXICO.
APRIL 22, 1968. IN SPANISH
- 395 72 054 SINGH G HALL JC ROCK PA
THERMODYNAMICS OF LITHIUM ISOTOPE EXCHANGE REACTIONS. 2. ELECTROCHEMICAL INVESTIGATIONS IN DIGLYME
AND PROPYLENE CARBONATE
J. CHEM. PHYS., 56. 1855, 1972
- 395 72 055 SPEVACEK V
APPROXIMATE ESTIMATION OF THE RATE OF ISOTOPIC EXCHANGE REACTION BETWEEN INORGANIC IODIDE AND
SUBSTITUTED ARYL IODIDES, BASED ON THE HMO THEORY
RADIOISOTOPY, 12. 699, 1971. FROM 6TH RADIOCHEMICAL CONFERENCE, MARIANSKE LAZNE, CZECHOSLOVAKIA, MAY
1971
- 395 72 056 STARY J KRATZER K ZEMAN A
DETERMINATION OF TRACES OF BISMUTH BY ISOTOPIC EXCHANGE REACTION IN THE ORGANIC PHASE
J. RADIOANAL. CHEM., 5. 71, 1970
- 395 72 057 TOPPEN DL
ISOTOPIC OXYGEN EXCHANGE STUDIES ON SOME RE(V) COMPLEXES
THESIS, UNIV. OF MISSOURI, COLUMBIA, 1971. 176P. UNIV. MICROFILMS ORDER NO. 71-22,947
- 395 72 058 TOTH G MILLER J (2)
1. ON HETEROGENEOUS ISOTOPIC EXCHANGE BETWEEN IODINE ADSORBED ON PLATINUM AND IODIDE, IODINE, AND
TRIIODIDE. 2. STUDIES ON ISOTOPIC EXCHANGE BETWEEN A MONOLAYER DEPOSITED ON NOBLE METAL SURFACES
AND AQUEOUS SOLUTIONS. II.
RADIOCHIM. ACTA, 17. 12. 1972 AND MAGY. KEM. FOLY., 78. NO. 6. 282, 1972
- 395 72 059 VULTERIN K BENES J KOLINA J
ISOTOPE EXCHANGE OF THIOUREA AND ITS DERIVATIVES WITH SULFUR-35
RADIOCHEM. RADIOANAL. LTRS, 10. 259, 1972
- 395 72 060 WADJA S ZARZECZNY A (1,3) KACZMAREK M (2) PRUCHNIK T (3)
1. ISOTOPIC EXCHANGE OF RADIOCHLORINE IN THE SYSTEM (MOCL₆)(-3)-CL(36)(-1). 2. RADIOISOTOPIC EXCHANGE
IN THE (CR(C₂O₄)₃)(-3)-C(14)204(-2) SYSTEM. 3. RADIOISOTOPIC EXCHANGE OF LIGANDS IN CHLORO AND
[HIUCANATONOLYDODATCC(III)]
NUKLEONIKA, 15. 631, 1970. AND 10. 33 AND 126, 1971 IN POLISH

- 395 72 061 WHITEHEAD DG LUDWIG LJ WALKER DA
PARTICIPATION OF MEHLER REACTION AND CATALASE IN OXYGEN EXCHANGE OF CHLOROPLAST PREPARATIONS
J. EXP. BOTANY, 22, 772, 1971
- 355 72 062 YANG NC EISENHART W LIBMAN J
ON PHOTOCHEMICAL ISOTOPIC EXCHANGE BETWEEN ACETONE-D(18) AND ACETONE-D6
JACS, 94, 4030, 1972
- 395 72 063 ZAITSEV NM SORDKIN YV MASLOV PG
THERMODYNAMICS OF ISOTOPIC EXCHANGE OF BORON IODIDES
Zh. Prikl. Khim., 44, NO. 10, XXX, 1971
- 395 72 064 ZIELINSKI M WAWER A
C(14) ISOTOPE EXCHANGE IN SYSTEM: C(14)O2-CD-ND
ROZD. CHEM., 46, 315, 1972
- 400 72 001 ANDERSON AT CLAYTON RN MAYEDA TK
OXYGEN ISOTOPE THERMOMETRY OF MAFIC IGNEOUS ROCKS
J. GEOL., 79, NO. 6, XXX, 1971
- 400 72 002 ANGER G
SULFUR ISOTOPE STUDIES ON NORWEGIAN AND GERMAN IRON PYRITE DEPOSITS
AEC-TR-7311, TRANSLATED FROM BER. GEOL. GES. DEUT. DEMOKRAT. REPUB. GESAMTGES. GEOL. WISS., 9, 543, 1964, 11P. NTIS
- 400 72 003 AUSTIN SR
SOME PATTERNS OF SULFUR ISOTOPE DISTRIBUTION IN URANIUM DEPOSITS
EARTH SCI. BULL., 3, NO. 2, 5-22, 1970
- 400 72 004 BABINETS AE LUGOVAYA IP MARUS VI
ON ISOTOPIC COMPOSITION OF OXYGEN IN UNDERGROUND WATERS OF UKRAINIAN CARPATHIANS
DOPOV. AKAD. NAUK UKR. SSR, SER. B, NO. 7, 581, 1971
- 400 72 005 BERNAT M GOLDBERG E
LA METHODE 10-TH APPLIQUEE AU MINERAL PHILLIPSITE ET SES CONSEQUENCES GEOCHIMIQUES. (APPLICATION OF
THE 10/TH METHOD TO PHILLIPSITE AND THE GEOCHEMICAL CONSEQUENCES)
COMPT. REND., SER. D, 273, 454, 1971
- 400 72 006 BOGDANOV YV GOLUBCHI MN PRILUTSK RE
ON SOME ISOTOPIC COMPOSITION PECULIARITIES OF SULFUR OF IRON SULFIDES IN PALEOZOIC DEPOSITS OF
CZHEKAZGAN
GEOKHIMIYA, P1376, 1971 IN RUSSIAN
- 400 72 007 BOGUSH IA RABINOV AL VESELOVS NV
GENETIC FEATURES AND ISOTOPIC COMPOSITION OF SULFUR OF CALLOVIAN STAGE SULPHIDES FROM NORTHERN
CAUCASUS
DOKL. AKAD. NAUK SSSR, 205, 414, 1972
- 400 72 008 BONCHEV TV PENEVA SK
POSSIBILITY OF DETECTING LONG LIVED TRANSURANIC ELEMENTS IN NATURE
COMPT. REND. ACAD. BULG. SCI., 24, 31, 1971
- 400 72 009 BOULOS MS MANUEL OK
1. XENON RECORD OF EXTINGUISHED RADIOACTIVITIES IN THE EARTH, 2. EXTINGUISHED RADIOACTIVE NUCLIDES AND
PRODUCTION OF XENON ISOTOPES IN NATURAL GAS
SCIENCE, 174, 1334, 1971 AND NATURE, PHYS. SCI., 235, 150, 1972
- 400 72 010 BUACHIDZ IM BUACHIDZ GI TEVZADZE II
ISOTOPIC COMPOSITION OF CO2 CARBON FROM CARBONATE WATERS OF GEORGIA
GEOKHIMIYA, P746, 1972 IN RUSSIAN
- 400 72 011 CAPALDI G CIVETTA L GASPARINI P
FRACTIONATION OF THE U(238) DECAY SERIES IN THE ZEOLITIZATION OF VOLCANIC ASHES
GEOCHIM. COSMOCHIM. ACTA, 35, 1067, 1971
- 400 72 012 CHIRKOV AM
RN(222) CONTENT IN KAMCHATKA HYDROTHERMS
DOKL. AKAD. NAUK SSSR, 199, 202, 1971
- 400 72 013 CHURCH SE
STRONTIUM ISOTOPE AND ALKALI ELEMENT GEOCHEMISTRY OF SELECTED SEDIMENTS FROM NORTHEAST PACIFIC OCEAN
GEOCHIM. COSMOCHIM. ACTA, 35, 1300, 1971
- 400 72 014 CHURCH TM BERNAT M
THORIUM AND URANIUM IN MARINE BARITE
EARTH PLANET. SCI. LTRS, 14, 139, 1972
- 400 72 015 CLAUSER N TARDY Y
GEOCHIMIE ISOTOPIQUE. DISTINCTION, PAR LA COMPOSITION ISOTOPIQUE DU STRONTIUM CONTENU DANS LES
CARBONATES, ENTRE LE MILIEU CONTINENTAL DES VIEUX SOCLES CRISTALLINS ET LE MILIEU MARIN
COMPT. REND., SER. D, 273, 2191, 1971
- 400 72 016 CLAYTON RN REX RW (2) SYERS JK (2)
1. OXYGEN ISOTOPIC COMPOSITION OF LUNA-16 SOIL, 2. OXYGEN ISOTOPE ABUNDANCE IN QUARTZ FROM PACIFIC
SEDIMENTS
EARTH PLANET. SCI. LTRS, 13, 455, 1972 AND J. GEOPHYS. RES., 77, 3907, 1972
- 400 72 017 CLIFF RA LEE-HU C WETHERILL GW
RUBIDIUM-STRONTIUM ISOTOPE CHARACTERISTICS OF LUNAR SOILS
J. GEOPHYS. RES., 77, 2007, 1972
- 400 72 018 CORTECCI G LONGINEL A
OXYGEN ISOTOPE VARIATIONS IN A BARITE SLAB FROM SEA BOTTOM OFF SOUTHERN CALIFORNIA
CHEM. GEOL., 9, NO. 2, 113, 1972
- 400 72 019 CRAIG H CRAIG V
GREEK MARBLES: DETERMINATION OF PROVENANCE BY ISOTOPIC ANALYSIS
SCIENCE, 176, 401, 1972

- 400 72 020 CURTIS CD PETROWSKI C OERTEL G
STABLE CARBON ISOTOPE RATIOS WITHIN CARBONATE CONCRETIONS: A CLUE TO PLACE AND TIME OF FORMATION
NATURE, 235, 98, 1972
- 400 72 021 DASCH EJ DYMOND JR HEATH GR
ISOTOPIC ANALYSIS OF METALLIFEROUS SEDIMENT FROM EAST PACIFIC RISE
EARTH PLANET. SCI. LTRS, 13, 175, 1971
- 400 72 022 EBERHARDT P GEISS J GRAF H
ORIGIN OF EXCESS Xe(131) IN LUNAR ROCKS
EARTH PLANET. SCI. LTRS, 12, 260, 1971
- 400 72 023 EL-KHOLY SB SELIM ET
ISOTOPIC COMPOSITION OF SOME EGYPTIAN GALENA BY THERMAL EMISSION MASS SPECTROMETRY
PURE APPL. GEOPHYS., 87, 192, 1971
- 400 72 024 FLEROV GN
SEARCH FOR REMOTE TRANSURANIUM ELEMENTS IN IRON-MANGANESE NODULES
UCRL-TRANS-10579, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM ACTA
PHYS. POL., 38A, 595, 1970, 11P, NTIS
- 400 72 025 GALIMOV EM BAGIROV VI KUZNETSO NG
CARBON ISOTOPE COMPOSITION OF ORGANIC MATTER IN BOTTOM SEDIMENTS OF CENTRAL CASPIAN
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 461, 1971
- 400 72 026 GAVRISHI AI RABINOV AL
ON POSSIBILITY OF USING ISOTOPIC COMPOSITION OF SULFATE SULFUR OF NATURAL WATERS AS AN INDICATOR FOR
SEARCHING OF PYRITE MINERALIZATION ON MIDDLE URAL MOUNTAINS
GEOKHIMIYA, P873, 1971 IN RUSSIAN
- 400 72 027 GENTRY RV
RADIOHALOS: SOME UNIQUE LEAD ISOTOPE RATIOS AND UNKNOWN ALPHA RADIOACTIVITY
SCIENCE, 173, 727, 1971
- 400 72 028 GRAY CM OVERSBY VM
BEHAVIOUR OF LEAD ISOTOPES DURING GRANULITE FACIES METAMORPHISM
GEOCHIM. COSMOCHIM. ACTA, 36, 939, 1972
- 400 72 029 HARPER CT SCHAMEL S
NOTE ON THE ISOTOPIC COMPOSITION OF ARGON IN QUARTZ VEINS
EARTH PLANET. SCI. LTRS, 12, 129, 1971
- 400 72 030 HEDGE CE LEWIS JF
ISOTOPIC COMPOSITION OF STRONTIUM IN THREE BASALT-ANDESITE CENTERS ALONG LESSER ANTILLES ARC
CONTRIB. MINER. PETROL., 32, 39, 1971
- 400 72 031 HENDY CH
ISOTOPIC GEOCHEMISTRY OF SPELEOTHEMS. 1. CALCULATION OF EFFECTS OF DIFFERENT MODES OF FORMATION ON
ISOTOPIC COMPOSITION OF SPELEOTHEMS AND THEIR APPLICABILITY AS PALAEOCLIMATIC INDICATORS
GEOCHIM. COSMOCHIM. ACTA, 35, 801, 1971
- 400 72 032 HENNECKE EW MANUEL OK
MASS FRACTIONATION AND ISOTOPIC ANOMALIES OF XENON AND KRYPTON IN ORDINARY CHONDRITES
Z. NATURFORSCH., 26A, 1980, 1971
- 400 72 033 HOFFMAN DC LAWRENCE FO MEWHERTER JL ROURKE FM

DETECTION OF PU(244) IN NATURE
NATURE, 234, 132, 1971
- 400 72 034 HOLT BD ENGELKEM AG VENTERS A
VARIATIONS OF SULFUR ISOTOPE RATIOS IN SAMPLES OF WATER AND AIR NEAR CHICAGO
ENVIRON. SCI. TECHNOL., 6, 338, 1972
- 400 72 035 JAVOY M
1. GEOCHIMIE. COMPOSITION ISOTOPIQUE DE L'OXYGENE DANS LES ROCHES ECLOGITQUES. 2. EXTREME ISOTOPIC
COMPOSITIONS OF CARBON AND REDOX PROCESSES
COMPT. REND., SER. D, 273, 2414, 1971 AND NATURE, PHYS. SCI., 236, 63, 1972
- 400 72 036 JOHNSON SJ DANSGAARD W CLAUSEN HB
OXYGEN ISOTOPE PROFILES THROUGH THE ANTARCTIC AND GREENLAND ICE SHEETS
NATURE, 235, 429, 1972
- 400 72 037 JONES LM FAURE G (2)
1. ISOTOPIC COMPOSITION AND CONCENTRATION OF STRONTIUM OF BRINE FROM TUBORG LAKE, ELLESMERE ISLAND,
N.W.T. 2. STRONTIUM ISOTOPE GEOCHEMISTRY OF GREAT SALT LAKE, UTAH
ARCTIC, 25, NO. 2, 154, 1972 AND GEOL. SOC. AMER., BULL., 83, 1875, 1972
- 400 72 038 JOSHI LU GANGULY AK
DISEQUILIBRIUM STUDIES IN TH(232)/TH(228) ACTIVITY RATIO IN SOME SEDIMENT SAMPLES OF INDIA
PP 137-48 OF PROCEEDINGS OF THE CHEMISTRY SYMPOSIUM, 1970, VOL. II, DEPT. OF ATOMIC ENERGY, BOMBAY,
1970, FROM SYMPOSIUM, MADRAS, INDIA, NOV. 25, 1970, CONF-701148(VOL.2)
- 400 72 039 KADYROV NB ISSABAYAEV EA ASSYLBAEY UH AEILDAYAEV AH TSCHERDYNZEV VV
ISOTOPIC COMPOSITION OF URANIUM AND THE CONTENT OF ACTINIUM IN MINERALS AND NATURAL WATERS
Z. ANGEW. GEOL., 16, 251, 1970 IN GERMAN
- 400 72 040 KAJIWARA Y KROUSE IR
SULFUR ISOTOPE PARTITIONING IN METALLIC SULFIDE SYSTEMS
CAN. J. EARTH SCI., 8, 1397, 1971
- 400 72 041 KAMENSKII IL YAKUTSENI VP MAMYRIN BA ANUFRIEV SG TOLSTIKHIN IN
HELIUM ISOTOPES IN NATURE
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 575, 1971, TRANSLATED FROM GEOKHIMIYA, P914, 1970
- 400 72 042 KAN N
ALPHA SPECTROSCOPY OF URANIUM IN TERMITES
PP 12-20 OF NYO-844-84, CARNEGIE-MELLON UNIV., PITTSBURGH, PA., DEPT. OF CHEMISTRY, IN NUCLEAR
CHEMISTRY AND GEOCHEMISTRY RESEARCH

- 400 72 043 KAZENKIN GA
ISOTOPIC CARBON COMPOSITION IN CARBONOUS ROCKS OF OIL DEPOSITS IN BYELORUSSIA AS EVIDENCE OF THEIR
ORIGIN
DOKL. AKAD. NAUK BSSR. 16. 545. 1972
- 400 72 044 KHADEMI B MESGHALI A
INVESTIGATION AND MEASUREMENT OF RADIUM IN RAMSAR MINERAL WATER
HEALTH PHYS., 21. 464. 1971
- 400 72 045 KIGOSHI K
ALPHA RECOIL TH(234): DISSOLUTION INTO WATER AND THE U(234)/U(238) DISEQUILIBRIUM IN NATURE
SCIENCE. 173. 47. 1971
- 400 72 046 KIRSTEN T MUELLER MW NORTON E
MASS SPECTROMETRIC DETECTION OF SE(82) DOUBLE BETA DECAY
PP 501-5 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA. K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE. KYOTO, JAPAN. SEPT. 8. 1969
- 400 72 047 KOVAL'SKII VV GALIMOV EM PROKHOROV VS
CARBON ISOTOPIC COMPOSITION OF COLORED VARIETIES OF YAKUTIAN DIAMONDS
DOKL. AKAD. NAUK SSSR. 203. 440. 1972 IN RUSSIAN
- 400 72 048 KRONFELD J
U(234)/U(238) DISEQUILIBRIUM IN GROUNDWATERS OF CENTRAL TEXAS: A PROGRESS REPORT ON RESEARCH
COMPLETED
PP 303-10 OF GJO-935-1(Pt.2). JUNE 1971. IN NUCLEAR TECHNIQUES IN GEOLOGY AND GEOCHEMISTRY
- 400 72 049 KURASAWA H
STRONTIUM AND LEAD ISOTOPES OF VOLCANIC ROCKS IN JAPAN
PP 666-70 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA. K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE. KYOTO, JAPAN. SEPT. 8. 1969
- 400 72 050 KUSH V CHEPIGIN VI TER-AKOP'YAN GM BEGDANOV SO
WEAK ALPHA ACTIVITY OF VOLATILE FRACTIONS OF LEAD-ZINC ORES
AT. ENERGI. (USSR). 31. NO. 2. 159. 1971 IN RUSSIAN
- 400 72 051 KUZNETSOV YV SHCHEBETKOVSKII VN
STUDY OF RADIOACTIVE ISOTOPE DISTRIBUTION BETWEEN SEAWATERS AND SEDIMENTS
GEOKHIMIYA. 1466. 1971 IN RUSSIAN
- 400 72 052 LABEYRIE L
GEOCHIMIE ISOTOPIQUE. COMPOSITION ISOTOPIQUE DE L'OXYGENE DE LA SILICE BIOGENIQUE
COMPT. REND., SER. D. 274. 1605. 1972
- 400 72 053 LANGFORD JC
PARTICULATE PB, PB(210), AND PO(210) IN THE ENVIRONMENT
HEALTH PHYS., 20. 331. 1971
- 400 72 054 LASHMANO VI MANCHUR GP
ISOTOPE CARBON COMPOSITION OF CARBONATES OF MARMAROSH ROCK MASS NORTH-WEST EDGE
ODPOV. AKAD. NAUK UKR. RSR. SER. 8. NO. 5. 403. 1972
- 400 72 055 LETOLLE R
O(18), C(13), SR, AND MG IN A MUMMULITIC LAEVIGATUS POPULATION. AN ATTEMPT TO INTERPRET THE RESULTS
AND THE GEOCHEMICAL CONSEQUENCES
REV. GEOGR. PHYS. GEOL. DYN., 13. NO. 5. 439. 1971 IN FRENCH
- 400 72 056 LEVI MW MIEKELEY N
ANOMALY IN THE CATION ISOTOPE EXCHANGE KINETICS IN VERMICULITE TRANSVAAL
RADIOCHIM. ACTA. 16. NO. 3-4. 182. 1971 IN GERMAN
- 400 72 057 LUGMAIR GW MARTI K
NEUTRON CAPTURE EFFECTS IN LUNAR GADOLINIUM AND THE IRRADIATION HISTORIES OF SOME LUNAR ROCKS
EARTH PLANET. SCI. LTRS. 13. 32. 1971
- 400 72 058 MAJOUBE M
FRACTIONATING OF O(18) BETWEEN ICE AND WATER VAPOR
J. CHIM. PHYS., 68. 625. 1971 IN FRENCH
- 400 72 059 MANUEL OK WRIGHT RJ MILLER DK
ISOTOPIC COMPOSITIONS OF RARE GASES IN CARBONACEOUS CHONDRITES MOKOIA AND ALLENDE
GEOCHIM. COSMOCHIM. ACTA. 36. 961. 1972
- 400 72 060 MATSUBAYA O MIYAKE Y (1) SAKAI S (2) TANAKA H (2) UENURA T (2)
1. RELATION BETWEEN DEUTERIUM AND O(18) CONTENTS IN RAIN WATER. 2. ISOTOPIC STUDY OF HOT SPRINGS IN
JAPAN. 1. TECHNIQUES FOR OXYGEN ISOTOPIC ANALYSIS OF SPRING WATERS
1. PP 724-7 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA. K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE. KYOTO, JAPAN. SEPT. 8. 1969. 2. OKAYAMA DAIGAKU ONSEN
KENKYUSHO HOKOKU. NO. 40. 33-40. 1971 IN JAPANESE
- 400 72 061 MEGRUE GH
DISTRIBUTION AND ORIGIN OF HELIUM, NEON, AND ARGON ISOTOPES IN APOLLO 12 SAMPLES MEASURED BY IN SITU
ANALYSIS WITH A LASER-PROBE MASS SPECTROMETER
J. GEOPHYS. RES., 76. 4956. 1971
- 400 72 062 MEKHTIYE VL
ISOTOPIC COMPOSITION OF SULFUR FROM PLANTS AND ANIMALS IN WATER BASINS OF VARIOUS SALINITIES
GEOCHEM. INTERN. USSR (ENGL. TRANS.). 8. 461. 1971
- 400 72 063 NISHRA UC SADASIVAN S
NATURAL RADIOACTIVITY LEVELS IN INDIAN SOILS
J. SCI. IND. RES., 30. NO. 2. 59. 1971
- 400 72 064 MITCHELL RH KROUSE HR
ISOTOPIC COMPOSITION OF SULPHUR IN CARBONATITE AT MOUNTAIN PASS, CALIFORNIA
NATURE. PHYS. SCI., 231. 182. 1971
- 400 72 065 MOELLER P PAPENDORFF H
FRACTIONATION OF CALCIUM ISOTOPES IN CARBONATE PRECIPITATES
EARTH PLANET. SCI. LTRS. 11. 192. 1971

- 400 72 066 MONSTER J
HOMOGENEITY OF SULFUR AND CARBON ISOTOPE RATIOS S(34)/S(32) AND C(13)/C(12) IN PETROLEUM
PAP. METEOROL. GEOPHYS. (TOKYO), 22, 941, 1971
- 400 72 067 MUEHLENB K CLAYTON RN
OXYGEN ISOTOPE RATIOS OF SUBMARINE DIORITES AND THEIR CONSTITUENT MINERALS
CAN. J. EARTH SCI., 8, 1591, 1971
- 400 72 068 NISSENBA A PRESLEY BJ KAPLAN IR
EARLY DIAGENESIS IN A REDUCING FJORD, SAANICH INLET, BRITISH COLUMBIA. 1. CHEMICAL AND ISOTOPIIC
CHANGES IN MAJOR COMPONENTS OF INTERSTITIAL WATER
GEOCHIM. COSMOCHEM. ACTA, 36, 1007, 1972
- 400 72 069 NO AUTHOR
PROGRESS REPORTS
INS-458, REPORT NO. 15, JAN. - JUNE 1970, CONTRIBUTION NO. 466, 80P. INS-459, REPORT NO. 16, JULY -
DEC. 1970, 96P. INSTITUTE OF NUCLEAR SCIENCES, LOWER HUTT, NEW ZEALAND. NTIS
- 400 72 070 NO AUTHOR
VARIATIONS IN ISOTOPIIC ABUNDANCES OF STRONTIUM, CALCIUM, AND ARGON AND RELATED TOPICS
MIT-1381-18, 18TH ANNUAL PROGRESS REPORT, 1970, MASSACHUSETTS INST. OF TECH., CAMBRIDGE, DEPT. OF
EARTH AND PLANETARY SCIENCES, DEC. 1970, 159P. NTIS
- 400 72 071 NO AUTHOR
STABLE ISOTOPES IN GEOCHEMISTRY
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 305, 1971
- 400 72 072 NO AUTHOR
ISOTOPES AND MCON ROCKS
ISOTOP. RADIAT. TECHNOL., 9, NO. 1, 64, 1971
- 400 72 073 ODA T
NATURAL RADIOCARBON IN BEPPU HOT SPRING WATERS
NIPPON KAGAKU ZASSHI (J. CHEM. SOC. JAPAN, PURE CHEM. SECT.), 92, 1025, 1971 IN JAPANESE
- 400 72 074 OEHLEH OZ SCHOPF JW KVENVOLD KA
CARBON ISOTOPIIC STUDIES OF ORGANIC MATTER IN PRECAMBRIAN ROCKS
SCIENCE, 175, 1246, 1972
- 400 72 075 QNMA N CLAYTON RN MAYEDA TK
1. OXYGEN ISOTOPE TEMPERATURES OF EQUILIBRATED ORDINARY CHONDRITES. 2. OXYGEN ISOTOPE
COSMOTHERMOMETER
GEOCHIM. COSMOCHEM. ACTA, 36, 157 AND 169, 1972
- 400 72 076 OTGONSUREN O PERELYGIN VP TRETIKOVA SP VINOGRADOV YA
SEARCH FOR TRACKS OF THE SPONTANEOUS FISSION FRAGMENTS OF FAR TRANSURANIUM ELEMENTS IN NATURAL
MINERALC
JINR-P-7-5814, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS, 1971, 14P
IN RUSSIAN. NTIS
- 400 72 077 OVERSBY VM LANCELOT J GAST PW
ISOTOPIIC COMPOSITION OF LEAD IN VOLCANIC ROCKS FROM TENERIFE, CANARY ISLANDS
J. GEOPHYS. RES., 76, 3402, 1971
- 400 72 078 PRASOLOV EM TOLSTIKH IN
ON QUESTION ABOUT HE(3) ISOTOPE ORIGIN IN MICROINCLUSIONS OF HONEY COMBED QUARTZ FROM VOLYN

GEOKHIMIYA, P727, 1972 IN RUSSIAN
- 400 72 079 RAC NARRA RK
MASS FRACTIONATION AND UNIFIED THEORY OF XENON ISOTOPE ANOMALIES
THESIS, UNIV. OF ARKANSAS, FAYETTEVILLE, 1971, 95P. UNIV. MICROFILMS ORDER NO. 72-10,213
- 400 72 080 RIGA A VAN PRAAG HJ BRIGODE N
NATURAL ISOTOPE RATIOS IN SOME FOREST AND AGRICULTURAL SOILS IN BELGIUM SUBJECTED TO VARIOUS
FERTILITY TREATMENTS
GEODERMA, 6, NO. 3, 213, 1971 IN FRENCH
- 400 72 081 RILEY GH DELONG SE
OSMIUM ISOTOPES IN GEOLOGY
J. MASS SPECTRY, ION PHYS., 4, 297, 1971, 28 REFERENCES
- 400 72 082 ROKOP DJ METTA DN STEVENS CM
U(236)/U(238) MEASUREMENTS IN THREE TERRESTRIAL MINERALS AND ONE PROCESSED ORE
J. MASS SPECTRY, ION PHYS., 8, 259, 1972, 17 REFERENCES
- 400 72 083 ROSSMAN GI SYCHEV IV TARKHANOVA GA CHESNOKOV LV
USE OF PB(206) RADIOGENIC ISOTOPE HALOS IN URANIUM MINERALIZATION PROSPECTING IN ACIDIC VOLCANIC
ROCKS
IZV. AKADE. NAUK SSSR, SER. GEOL., NO. 1, 79, 1971 IN RUSSIAN
- 400 72 084 RUSS GP BURNETT DS (1) LINGENFELTER RE (1) WASSERBURG GJ (1)
1. NEUTRON CAPTURE ON SM(149) IN LUNAR SAMPLES. 2. NEUTRON CAPTURE OF Gd AND SM IN THE LUNA 16, G-2
SOIL
EARTH PLANET. SCI. LTRS, 13, 53, 1971 AND 13, 384, 1972
- 400 72 085 RUSSELL RD
EVOLUTIONARY MODEL FOR LEAD ISOTOPES IN CONFORMABLE ORES AND IN OCEAN VOLCANICS
REV. GEOPHYS. SPACE PHYS., 10, 529-49, 1972, 53 REFERENCES
- 400 72 086 SAENZ ML
SOME IDEAS ON ISOTOPIIC FRACTIONIZATION OF SULFUR IN URANIUM MINERALIZATIONS
ENERG. NUCL. (MADRID), 15, 388, 1971 IN SPANISH
- 400 72 087 SAKANOE M KOMURA K
ANOMALOUSLY HIGH U(234)/U(238) RATIO IN A NATURAL SAMPLE
NATURE, PHYS. SCI., 233, 80, 1971
- 400 72 088 SASSANO GP FRITZ P MORTON RD
PARAGENESIS AND ISOTOPIIC COMPOSITION OF SOME GANGUE MINERALS FROM THE URANIUM DEPOSITS OF ELDOORADO,
SASKATCHEWAN
CAN. J. EARTH SCI., 9, 141, 1972

- 400 72 089 SCHIEGL WE
DEUTERIUM CONTENT OF PEAT AS A PALEOCLIMATIC RECORDER
SCIENCE, 175, 512, 1972, 9 REFERENCES
- 400 72 090 SCHOELL M STAHL W.
CARBON ISOTOPIC COMPOSITION AND CONCENTRATION OF DISSOLVED ANORGANIC CARBON IN ATLANTIS II DEEP
BRINES/RED SEA
EARTH PLANET. SCI. LTRS. 15, 206, 1972
- 400 72 091 SCHORNICK JC
URANIUM AND THORIUM ISOTOPE GEOCHEMISTRY IN FERROMANGANESE CONCRETIONS FROM THE SOUTHERN OCEAN
THESIS. FLORIDA STATE UNIV., TALLAHASSEE, 1971, 156P, UNIV. MICROFILMS ORDER NO. 72-9215
- 400 72 092 SCHRAMM DN
ISOTOPIC COMPOSITION OF MG AND THE IMPLIED LIMITS OF AL(26) NUCLEOSYNTHETIC CHRONOLOGIES FOR THE
GALAXY
THESIS. CALIFORNIA INST. OF TECH., PASADENA, 1971, 160P, UNIV. MICROFILMS ORDER NO. 71-21,901
- 400 72 093 SCHWALLER M EBERHARDT P GEISS J GRAF H GROEGLER N
(KR(78)/KR(83))(SUB SP)-(XE(131)/XE(126))(SUB SP) CORRELATION IN APOLLO 12 ROCKS
EARTH PLANET. SCI. LTRS. 12, 167, 1971
- 400 72 094 SHARIF-ZADE VB SHUKOLYUKOV YA GERLING EK ASHKINADZE GS
NEON ISOTOPES IN RADIOACTIVE MINERALS
GEOKHIMIYA, P314, 1972 IN RUSSIAN
- 400 72 095 SHARMA T BISWAS AK PILLAI NV
FRACTIONATION OF OXYGEN AND CARBON ISOTOPES DURING FLOTATION OF CALCITE
BULL. CHEM. SOC. JAPAN, 45, 2239, 1972
- 400 72 096 SHINAZU Y URABE T
ISOTOPE ABUNDANCE VARIATION AND THE EVOLUTION OF THE EARTH AND METEORITES
PP 688-91 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 400 72 097 SHUKOLYUKOV YA SHARIF-ZADE VB ASHKINADZE GS GERLING EK
ORIGIN OF NE(21) IN RADIOACTIVE MINERALS
AT. ENERG. (USSR), 31, 530, 1971 IN RUSSIAN
- 400 72 098 SPIRIDONOV AI SULTANKHODZHAEV AN SURGANOVA NA TYMINSKII VG
SOME RESULTS OF STUDY OF THE ISOTOPES OF URANIUM U(234):U(238) IN GROUND WATERS OF THE TASHKENT
ARTESIAN BASIN
UZB. GEOL. ZH., NO. 4, 82, 1969
- 400 72 099 SRINIVASAN B MANUEL OK ALEXANDER EC (2)
1. ISOTOPIC COMPOSITION OF TRAPPED HELIUM AND NEON IN CARBONACEOUS CHONDRITES. 2. XENON ISOTOPES IN
TELLUROBISMUTHITE, BOILDEN, SWEDEN
EARTH PLANET. SCI. LTRS. 12, 282, 1971 AND J. INORG. NUCL. CHEM., 34, 2381, 1972
- 400 72 100 TAKAGI J TANAKA S
XENON ANOMALY IN TELLURIUM ORE
INS-J-129, TOKYO METROPOLITAN UNIV. AND TOKYO UNIV., JAPAN, INST. FOR NUCLEAR STUDY, JULY 1971, 12P,
INIS
- 400 72 101 TAYLOR HP FORESTER RM
LOW O(18) IGNEOUS ROCKS FROM INTRUSIVE COMPLEXES OF SKYE, MULL, AND ARDNAMURCHAN, WESTERN SCOTLAND
JPTD, 12, NO. 3, 465, 1971
- 400 72 102 TERA F WASSERBURG GJ
U-TH-PB SYSTEMATICS IN THREE APOLLO 14 BASALTS AND THE PROBLEM OF INITIAL PB IN LUNAR ROCKS
EARTH PLANET. SCI. LTRS. 14, 281, 1972
- 400 72 103 THODE HG REES CE
MEASUREMENT OF SULPHUR CONCENTRATIONS AND THE ISOTOPE RATIOS S(33)/S(32), S(34)/S(32), AND S(36)/
S(32) IN APOLLO 12 SAMPLES
EARTH PLANET. SCI. LTRS. 12, 434, 1971
- 400 72 104 TOLSTIKH IN MANYRIN BA KHABARIN LV
ANOMALOUS ISOTOPIC COMPOSITION OF HELIUM IN SOME XENOLITHS
GEOKHIMIYA, P629, 1972 IN RUSSIAN
- 400 72 105 TUGARINO AI MITRYAEV NM ZAMYATIN NI
LEAD AND SULFUR ISOTOPES AND PROCESS OF ORE FORMATION IN DEPOSIT OF ATASUI REGION
GEOKHIMIYA, P547, 1972 IN RUSSIAN
- 400 72 106 TUREKIAN KK CHAN LH
MARINE GEOCHEMISTRY OF THE URANIUM ISOTOPES, TH(230) AND PA(231)
PP 311-20 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY, BRUNFELT, A.O. (ED.),
UNIVERSITETSFORLAGET, OSLO, 1971, FROM CONFERENCE, KJELLER, NORWAY, SEPT. 7, 1970, CONF-700968
- 400 72 107 VEEH HH BOSTROEM K
ANOMALOUS U(234)/U(238) ON THE EAST PACIFIC RISE
EARTH PLANET. SCI. LTRS. 10, 372, 1971
- 400 72 108 VINOGRAD VI OZEROVA NA (1) GALKIN MA (1) ILUPIN IP (2)
1. SULPHUR SOURCE OF SULPHUR IN ORES OF MERCURIFEROUS DEPOSITS OF LOVO-SAKYNDZHINSK ORE FIELD (
YAKUTIA) ACCORDING TO DATA OF SULPHUR ISOTOPIC COMPOSITION. 2. SULPHUR ISOTOPIC COMPOSITION IN
KIMBERLITES OF SIBERIAN PLATFORM
DOKL. AKAD. NAUK SSSR, 202, 689, 1972 AND 204, 1452, 1972
- 400 72 109 VINOGRADOV AP DONTSEVA EI (1) GERASIMO VI (1) LAVRUKHINA AK (2) GORIN VO (2)
USTINOVA GK (2)
1. OXYGEN ISOTOPIC COMPOSITION OF CARBONATITES FROM RIFT ZONES OF EAST AFRICA. 2. COSMOGENIC AL(26)
AND NA(22) IN A LUNAR REGOLITH RECOVERED BY LUNA-16
GEOCHEM. INTERN. USSR (ENGL. TRANS.), 8, 307, 1971 AND DOKL. AKAD. NAUK SSSR, 202, 437, 1972
- 400 72 110 WEBER JN WOODHEAD PM
1. DIURNAL VARIATIONS IN ISOTOPIC COMPOSITION OF DISSOLVED INORGANIC CARBON IN SEAWATER FROM CORAL
REEF ENVIRONMENTS. 2. TEMPERATURE DEPENDENCE OF OXYGEN-18 CONCENTRATION IN REEF CORAL CARBONATES
GEOCHIM. COSMOCHIM. ACTA, 35, 891, 1971 AND J. GEOPHYS. RES., 77, 463, 1972

- 400 72 111 YASHCHENKO ML BARSHAVSKAYA ES
KRATKII OBOZOR PRIMENENIYA IZOTOPOV STRONTSIYA I SVINTSA V GEOLOGII (SHORT SURVEY OF APPLICATIONS OF STRONTIUM AND LEAD ISOTOPES IN GEOLOGY)
BOOK. IZDATEL'STVO NAUKA LENINGRADSKOE OTDELENIE, LENINGRAD, 1971. 140P. 168 REFERENCES
- 400 72 112 YORK D
EXTINCT I(129), PU(244), AND SUPERHEAVY ELEMENTS IN THE EARLY HISTORY OF THE SOLAR SYSTEM
COMMENTS EARTH SCI., GEOPHYS., 2. NO. 1, 14-21, 1971. 30 REFERENCES
- 400 72 113 YUTHAMANOP A
ENVIRONMENTAL ISOTOPE INVESTIGATION IN THE TOTES GEBIRGE STYRIA, AUSTRIA
PP 9-20 OF THAI-AEC-35. OFFICE OF ATOMIC ENERGY FOR PEACE, BANGKOK, THAILAND. NTIS
- 400 72 114 ZADUBAN M
OCCURRENCE OF SUPERHEAVY NUCLIDES IN NATURE
J. RADIOANAL. CHEM., 9. NO. 2, 293, 1971 IN GERMAN
- 405 72 001 ACKERMALT R ELLERBE P HARBOTTLE G
HALF-LIFE OF TL(208) (THC'')
RADIOCHEM. RADIOANAL. LTRS. 8. NO. 2, 75, 1971
- 405 72 002 ADAMS JM ADAMS A CALVERT JM
STUDY OF THE NUCLEI N(12), F(16), MG(22), SI(26), AND S(30) BY (HE(3),N) REACTIONS
AERE-R-6473. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, FEB. 1971. 38P. NTIS
- 405 72 003 AKHMADZHANOV AI BAYAR B BRODA R
NEW ISOTOPES IR(178,180,181). DECAY SCHEME OF IR(182)
JINR-P6-6321. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, MAY 1972. 18P
IN RUSSIAN. NTIS
- 405 72 004 ALBURGER DE
HALF-LIFE OF O(14)
PHYS. REV., 5C, 274, 1972
- 405 72 005 AMIEL S FELDSTEIN H ORON M YELLIN E
IDENTIFICATION OF KR(94) AND XE(143) AND MEASUREMENT OF GAMMA RAY SPECTRA AND HALF-LIVES OF NUCLIDES
IN THE MASS CHAINS 93, 94, AND 143
PHYS. REV., 5C, 270, 1972
- 405 72 006 ARL'T R BAYAR B (1,2) ZAITSEVA NG (1,2) KRATSIK B (1) NOVGORODOV AF (1)
SEVERA F (1) TRAN THANH MINH (1) BYSTROV VA (3) HABENICHT W (3) HERRMANN E (3)
RAIKO VI (3) STRUSNY H (3) TYRROFF H (3)
1. NEW NEUTRON DEFICIENT ISOTOPE RU(92). 2. NEW ISOTOPE RU(92). 3. ISOBARS FROM THE SPALLATION
REACTION FOR NUCLEAR SPECTROSCOPY
1. JINR-E6-6107. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, 1971. 13P.
2. JETP LTRS USSR (ENGL. TRANS.), 13, 397, 1971. TRANSLATED FROM ZH. EKSP. TEOR. FIZ., PIS'MA RED
.. 13, 556, 1971. 3. NUCL. INSTRUM. METHODS, 102, 253, 1972 AND JINR-E13-6224. JOINT INST. FOR
NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, 1972. 14P
- 405 72 007 ARTUKH AG GRIDNEV GF AVDEICHKOV VV (1) MIKHEEV VL (2) VOLKOV VV (2)
WILCZYNSKI J (2)
1. NEW ISOTOPES MG(29,30), AL(31,32,33), SI(33,34,35,36), P(35,36,37,38), S(39,40), AND CL(41,42)
PRODUCED IN BOMBARDMENT OF A TH(232) TARGET WITH 290 MEV AR(40) IONS. 2. MASS MEASUREMENTS OF
O(21,22)
1. NUCL. PHYS., A176, 284, 1971. 2. JINR-ET-6303. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR,
LAB. OF NUCLEAR REACTIONS, 1972. 14P. NTIS
- 405 72 008 AUERBACH N LEV A KASHY E
ISOBARIC MASS EQUATION IN $A = 4N + 1$ NUCLEI
PHYS. LTRS, 36B, 453, 1971
- 405 72 009 BALL GC DAVIES WG FORSTER JS HARDY JC
USE OF THE (LI(7),BE(7)) REACTION TO MEASURE THE MASS OF NA(26)
PHYS. REV. LTRS, 28, 1069, 1972
- 405 72 010 BARBER RC BISHOP RL MEREDITH JO
PRECISE ATOMIC MASS DIFFERENCES IN REGION OF Z BETWEEN 59 AND 69 INCLUSIVE
CAN. J. PHYS., 50, 34, 1972
- 405 72 011 BARNES IL GARFINKEL SB MANN WB
NI(63): STANDARDIZATION, HALF-LIFE, AND NEUTRON CAPTURE CROSS SECTION
INT. J. APPL. RADIAT. ISOTOP., 22, 777, 1971
- 405 72 012 BHATTACHERJEE SK
EXISTENCE OF SUPERHEAVY NUCLEI
PP 159-68 OF PROCEEDINGS OF THE 11TH SYMPOSIUM ON COSMIC RAYS, ASTROPHYSICS, GEOPHYSICS AND
ELEMENTARY PARTICLE PHYSICS, 1969. VOL. 1. DEPT. OF ATOMIC ENERGY, BOMBAY, 1969. FROM SYMPOSIUM,
DELHI, INDIA, OCT. 7, 1969. CONF-691055(VOL.1)
- 405 72 013 BJORNHOLM S
FISSION ISOMERS AND INTERMEDIATE STATES IN NEAR-BARRIER FISSION
PP 447-81 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII,
MILLIGAN, W.G. (ED.), ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970. FROM CONFERENCE XIII, THE
TRANSURANIUM ELEMENTS, HOUSTON, TEXAS, NOV. 17, 1969. CONF-691124
- 405 72 014 BOBIN JL
MULTICHARGED HEAVY IONS. INTRODUCTION. (SYNTHESIS OF STABLE SUPERHEAVY NUCLEI)
BULL. INFORM. SCI. TECH. (PARIS), NO. 160, 5-9, 1971 IN FRENCH
- 405 72 015 BOLSTERLI M FISET EO NIX JR MCRTON JL
SHAPE OF THE ISLAND OF SUPERHEAVY NUCLEI
PHYS. REV. LTRS, 27, 681, 1971
- 405 72 016 BRITTEN RA
A MASS SPECTROSCOPIC DETERMINATION OF THE MASSES OF THE URANIUM AND THORIUM ISOTOPES WHICH HEAD THE
NATURAL RADIOACTIVE DECAY SERIES
THESIS. UNIV. OF MINNESOTA, MINNEAPOLIS, 1971. UNIV. MICROFILMS ORDER NO. 71-28,214. DISS. ABS.,
32B, 8, 2019, 1971

- 405 72 017 BRUECKNER KA CHIRICO JH MELDNER HW
MASS FORMULA CONSISTENT WITH NUCLEAR MATTER CALCULATIONS VS CONVENTIONAL MASS LAW EXTRAPOLATIONS
PHYS. REV., 4C, 732, 1971
- 405 72 018 BUNUS FT
HALF-LIFE AND EMISSION OF AU(202)
J. INORG. NUCL. CHEM., 34, 1087, 1972
- 405 72 019 CERNY J GOOSMAN DR (2) ALBURGER DE (2)
1. MASSES OF LIGHT NUCLEI FAR FROM STABILITY, 2. HIGHLY NEUTRON DEFICIENT VANADIUM ISOTOPE: V(44)
1. LBL-234, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., SEPT. 1971, 16P. CONF-710931-1, FROM
4TH INTERNATIONAL CONFERENCE ON ATOMIC MASSES AND FUNDAMENTAL CONSTANTS, TEDDINGTON, ENGLAND,
SEPT. 6, 1971, 2. PHYS. LETT., 37B, 380, 1971
- 405 72 020 CHERRY RD AHRENS LH
SUPERHEAVY ELEMENTS IN NATURE
COMMENTS EARTH SCI., GEOPHYS., 2, NO. 3, 77-85, 1971, 38 REFERENCES
- 405 72 021 CHU YY KAROL PJ (3)
1. RECENT RESULTS ON NEUTRON DEFICIENT HEAVY RARE EARTH NUCLIDES, 2. DECAY OF TM(162), 3. HALF-LIFE
OF HF(172)
1. PP 118-23 OF BMBW-FBK-70-28, BROOKHAVEN NATIONAL LAB., UPTON, N.Y., FROM PROCEEDINGS OF 7TH
INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR
APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970, 2. PHYS. REV., 4C, 642, 1971, 3. INORG. NUCL. CHEM.
LETT., 7, 1205, 1971
- 405 72 022 COWAN GA
HEAVY ELEMENT SYNTHESIS BY PROMPT MULTIPLE NEUTRON CAPTURE
PP 291-304 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII,
THE TRANSURANIUM ELEMENTS, MILLIGAN, W.D. (ED.), ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970,
FROM CONFERENCE, HOUSTON, NOV. 17, 1969, CONF-691124
- 405 72 023 DAVIES BSJ TOBIAS A
DATA FOR THE CALCULATION OF GAMMA RADIATION SPECTRA FROM FISSION FRAGMENTS (REVISION 1)
RD-B/M-2058, CENTRAL ELECTRICITY GENERATING BOARD, BERKELEY, ENGLAND, BERKELEY NUCLEAR LABS., AUG.
1971, 122P, NTIS
- 405 72 024 DE BIEVRE P LAUER KF LE DUIGOU Y MORET H MUESCHENBORN G
SPAEPEN J SPERNOL A VANINBROUX R VERDINGH V
MEASUREMENTS OF THE HALF-LIVES OF THE URANIUM ISOTOPES
PP 465-9 OF CONF-701002, EUROPEAN ATOMIC ENERGY COMMUNITY, GEEL, BELGIUM, CENTRAL NUCLEAR
MEASUREMENTS BUREAU, FROM SYMPOSIUM ON NEUTRON STANDARDS AND FLUX NORMALIZATION, ARGONNE, ILL.,
OCT. 21, 1970
- 405 72 025 DE ROOST E FUNCK E SPERNOL A VANINBROUX R
DECAY OF ZN(65)
Z. PHYS., 250, NO. 5, 395, 1972
- 405 72 026 DE VOIGT MJA MAAS JW VEENHOF D VAN DER LEUN C
REACTION NA(23)(ALPHA,GAMMA)AL(27), 1. YIELD CURVE, EXCITATION ENERGIES, AND BRANCHINGS OF AL(27)
LEVELS
NUCL. PHYS., A170, 449, 1971
- 405 72 027 DEBERTIN K
HALF-LIVES OF ZR(95), RU(103), AND CE(141)
Z. NATURFORSCH., 26A, 596, 1971 IN GERMAN
- 405 72 028 DEMIRKHANDOV RA DOROKHOV VV
MASSES OF STABLE ISOTOPES OF THALLIUM
PP 1301-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 405 72 029 DIETZ LA PACHUCKI CF
CS(134,137) HALF-LIVES DETERMINED BY MASS SPECTROMETRY
KAPL-P-3950, KNOLLS ATOMIC POWER LAB., SCHENECTADY, N.Y., 12P
- 405 72 030 DUCKWORTH HE
PRESENT STATUS OF ATOMIC MASS DETERMINATION
PP 26-38 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 405 72 031 DUPONT Y
STUDY OF THE CA(42)-K(42) AND CA(46)-K(46) NUCLEI USING TRANSFER REACTIONS
FRNC-TH-45, THESIS, GRENOBLE UNIV., FRANCE, 1971, 94P IN FRENCH, NTIS
- 405 72 032 EDGJEER E
AVAILABLE SUPERHEAVY ELEMENTS
NP-18871, ATOMIC ENERGY COMMISSION, ANKARA, TURKEY, 52P
- 405 72 033 ESKOLA K ESKOLA P NURMIA M GHIORSO A
STUDIES OF LAWRENCIUM ISOTOPES WITH MASS NUMBERS 255 THROUGH 260
PHYS. REV., 4C, 632, 1971
- 405 72 034 FLEROV GN ZVARA I (2)
1. SEARCH AND SYNTHESIS OF FAR TRANSURANIUM ELEMENTS, 2. CHEMICAL ELEMENTS OF THE SECOND HUNDRED
1. A/CONF-49/P-447, APRIL 1971, 14P IN RUSSIAN, CONF-710901-488, PREPARED FOR 4TH INTERNATIONAL
CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY, GENEVA, SWITZERLAND, SEPT. 6, 1971, 2.
JINR-D7-6013, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS, 1971, 88P
IN RUSSIAN, NTIS
- 405 72 035 FLEROV GN OGANESYAN YT (2) ZVARA I (3)
1. NUCLEAR SYNTHESIS IN REACTIONS WITH HEAVY IONS AND THE SEARCH FOR SUPERHEAVY ELEMENTS, 2. NUCLEAR
REACTIONS INDUCED BY XENON IONS AND EXPERIMENTS ON SUPERHEAVY ELEMENT SYNTHESIS, 3. HEAVY ION
RESEARCH AT DUBNA
1. VESTN. AKAD. NAUK SSSR, NO. 8, 43, 1969, 2. JINR-P7-6523, JOINT INST. FOR NUCLEAR RESEARCH,
DUBNA, USSR, 1972, 28P, 3. IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 2, 9,
1972
- 405 72 036 FRICKE B WABER JT (1) SCHEID W (2)
1. THEORETICAL PREDICTIONS OF THE CHEMISTRY OF SUPERHEAVY ELEMENTS, CONTINUATION OF THE PERIODIC
TABLE UP TO Z = 184, 2. PHYSICS AND CHEMISTRY WITH HEAVY IONS, III, ATOMIC PHYSICS AND CHEMISTRY
1. ACTINIDES LANTHANIDES REV., 1, NO. 5, 433-85, 1971, 55 REFERENCES, 2. KERNTech, ATOMPRAX., 13,
NO. 10, 443, 1971

- 405 72 037 GHIORSO A
1. BERKELEY MILAC HEAVIEST ELEMENT RESEARCH PROGRAM. 2. TWO NEW ELEMENTS: ATOMIC NUMBERS 104 AND 105. 3. COMMENTS ON CHEMICAL SEPARATION OF KURCHATOVIIUM (RUTHERFORDIUM)
1. PP 107-50 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII. THE TRANSURANIAN ELEMENTS. MILLIGAN, W.O. (ED.). ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970. FROM CONFERENCE, HOUSTON, NOV. 17, 1969. CONF-691124. 2. YALE SCI. MAG., 45, NO. 1, 2-7, 1970. 3. INORG. NUCL. CHEM. LTRS, 7, 1117, 1971
- 405 72 038 GLATZ J LOEBNER KEG
MEASUREMENT OF NUCLEAR HALF-LIVES UP TO 100 S BY THE DELAYED COINCIDENCE METHOD
NUCL. INSTRUM. METHODS, 94, 237, 1971
- 405 72 039 GOL'DANSKII VI
PERIODIC SYSTEM OF D.I. MENDELEEV AND PROBLEMS OF NUCLEAR CHEMISTRY
PP 137-62 OF ATTI DEL CONVEGNO MENDELEEVIANO, VERDE, M. (ED.). VINCENZO BONA, TURIN, 1971. FROM INTERNATIONAL MENDELEEV CONGRESS, TURIN, ITALY, SEPT. 15, 1969
- 405 72 040 GOOSMAN DR ALBURGER DE JONES, KW (1) WARBURTON EK (1)
1. MASSES AND HALF-LIVES OF NA(20), AL(24), P(28), CL(32), AND K(36) FROM THE (P,N) REACTION. 2. NEW ISOTOPE OF SILICON: 6.3 SEC SI(33). 3. MASS OF SI(33), AN EXAMPLE OF EXOTIC NUCLEUS PRODUCTION IN THE S-D SHELL VIA COMPOUND REACTION
PHYS. REV., 4C, 1800, 1971, 5C, 1252, 1972, AND 6C, 825, 1972
- 405 72 041 GOVE NB WAPSTRA AH
1971 ATOMIC MASS EVALUATION, PART IV. SYSTEMATICS OF SEPARATION AND DECAY ENERGIES
NUCL. DATA, SECT. A, 9, NO. 4-5, 457-60, 1971
- 405 72 042 GREINER W
1. PHYSICS WITH HEAVY IONS: SUPERHEAVY ELEMENTS. 2. SUPERHEAVY ELEMENTS: EXTENSION OF THE PERIODIC SYSTEM
1. PP 354-93 OF PLENARVORTTRAEGE, B. G. TEUBNER, STUTTGART, 1969 IN GERMAN. FROM 34TH PHYSICISTS CONFERENCE, SALZBURG, AUSTRIA, SEPT. 29, 1969. CONF-690975. 2. AERE-TRANS-1139. TRANSLATED FOR ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, FROM UMSCH. WISS. TECH., 69, NO. 12, 365-72, 1969. 16P. NTIS
- 405 72 043 GRIMM W HERZOG W
A NEW NUCLIDE: P(35)
Z. NATURFORSCH., 26A, 1933, 1971 IN GERMAN
- 405 72 044 HASLING JU SIROMM MM
SPONTANEOUS FISSION HALF-LIVES OF CM(244) AND CF(252)
MLM-1845(DR), MOUND LAB., MIAMISBURG, OHIO, OCT. 1971. 9P
- 405 72 045 HOFF RW HULET EK DUPZYK RJ LOUGHEED RW EVANS JE
ALPHA DECAY OF MD(255,256,257)
NUCL. PHYS., A169, 641, 1971
- 405 72 046 HONDA M IMAMURA M
HALF-LIFE OF MN(53)
PHYS. REV., 4C, 1182, 1971
- 405 72 047 HOWARD MH STOKES RH (1) ERKKILA BH (1)
1. EXPERIMENTAL DETERMINATION OF THE BE(12) GROUND STATE MASS. 2. USE OF THE LI(7)(LI(7),2P)BE(12) REACTION TO MEASURE THE GROUND STATE MASS OF BE(12)
1. PHYS. REV. LTRS, 27, 1086, 1971. 2. LA-4765, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, DEC. 1971. 88P. NTIS
- 405 72 048 HUBERT B NANN H SCHAFFER W
STUDY OF CL(35)(HE(3),P)AR(37) REACTION
NUCL. PHYS., 181, 1, 1972
- 405 72 049 HUDSON MC JOHNSON WH
ATOMIC MASS MEASUREMENTS OF THE LIGHT RARE EARTHS
PP 495-500 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 405 72 050 IWATA S
REPORTS OF THE STUDY MEETING ON NUCLEI WITH SHORT LIFE, KUMATORI, OSAKA, JAPAN, JUNE 30 - JULY 1, 1969
KURRI-TR-76, KYOTO UNIV., JAPAN, RESEARCH REACTOR INST., JUNE 1970. 27P IN JAPANESE. CONF-690661
- 405 72 051 IZAK T AMIEL S
HALF-LIVES AND GAMMA RAYS OF TIN ISOTOPES OF MASSES 129, 130, 131, AND 132
J. INORG. NUCL. CHEM., 34, 1469, 1972
- 405 72 052 JAFFE AA BISSINGER GA SHAFROTH SM
MASS AND HALF-LIFE OF K(36)
PHYS. REV., 3C, 2489, 1971
- 405 72 053 JAFFEY AH FLYNN KF GLENDENIN LE BENTLEY WC CSSLING AM
PRECISION MEASUREMENT OF HALF-LIVES AND SPECIFIC ACTIVITIES OF U(235) AND U(238)
PHYS. REV., 4C, 1889, 1971
- 405 72 054 JENSEN HB MAR HB BARNES CA
THRESHOLD ENERGY FOR THE REACTION N(15)(P,N)O(15) AND THE MASS OF O(15)
NUCL. PHYS., A185, 209, 1972
- 405 72 055 JOHANSSON T NILSON SG EZYMANSKI Z
THEORETICAL PREDICTIONS CONCERNING SUPERHEAVY ELEMENTS
ANN. PHYS. (PARIS), 5, NO. 6, 377, 1970
- 405 72 056 JOHNSON WTK DICK CE
HALF-LIFE MEASUREMENT OF SEVERAL SHORT LIVED NUCLEAR ISOMERS
NUCL. INSTRUM. METHODS, 99, 221, 1972
- 405 72 057 KAFFRELL N HERRMANN G
DECAY OF TB(163)
Z. PHYS., 245, NO. 5, 451, 1971 IN GERMAN

- 405 72 058 KATOH T
EXPERIMENT ON SHORT LIVED NUCLEI
PP 19-20 OF KURRI-TR-76. KYOTO UNIV., JAPAN, RESEARCH REACTOR INST. IN JAPANESE. FROM MEETING ON
NUCLEI WITH SHORT LIFE. OSAKA, JAPAN, JUNE 30, 1969
- 405 72 059 KELLER DL
GREAT NEW ELEMENTS RACE (DIVISION 104)
COMMENTS NUCL. PARTICLE PHYS., 5, NO. 1, 20-5, 1972. 5 REFERENCES
- 405 72 060 KERNELL RL KIM HJ ROBINSON RL JOHNSON CM
SN(117,119)(P,N)SB(117,119) REACTIONS NEAR 0(+) ANALOGUE STATES
NUCL. PHYS., A176, 449, 1971
- 405 72 061 KERR DP BAINBRIDGE KT
1. MASS MEASUREMENTS OF TE(126,128,130) AND XE(128,130) AND THE CURRENT STATUS OF THE LOCK-IN
AMPLIFIER METHOD. 2. N(14)D-N(15)H MASS DIFFERENCE
1. AD-719 423. HARVARD UNIV., CAMBRIDGE, MASS., DEPT. OF PHYSICS, 7P. 2. CAN. J. PHYS., 49, 1950,
1971
- 405 72 062 KING CH MAURENZIG PR STEIN N CLEARY TP
MASSES OF TL(201,202) AND PB(202,203)
NUCL. PHYS., A170, 187, 1971
- 405 72 063 KODAMA T YAMADA M (2)
1. BETA STABILITY LINE AND LIQUID-DROP MASS FORMULAS. 2. NUCLEAR MASS FORMULA ON A COMPRESSIBLE
MODEL
PROGR. THEOR. PHYS. (KYOTO), 45, 1112 AND 1763, 1971
- 405 72 064 LEFORT M
SEARCH FOR SUPERHEAVY ELEMENTS USING NUCLEAR SYNTHESIS
ANN. PHYS. (PARIS), 5, NO. 6, 355, 1970 IN FRENCH
- 405 72 065 LEIPUNSKII AI
BYULLETEN' INFORMatsIONNOGO TSENTRA PO YADERNYM DANNYM (VYPUSK PYATYI). (BULLETIN OF THE INFORMATION
CENTER ON NUCLEAR DATA (5TH EDITION))
BOOK, ATOMIZDAT, MOSCOW, 1968, 356P, 16 PAPERS
- 405 72 066 LOURENS W WAPSTRA AH BRINK BD (2)
1. LEVELS IN RN(222). 2. DECAY OF RA(227)
Z. PHYS., 247, 147, 1971 AND NUCL. PHYS., A171, 337, 1971
- 405 72 067 LUKASIAK A SOBICZEWSKI A STEPIEN-RUDZKA W
THEORETICAL ESTIMATES OF LIFETIMES OF SUPERHEAVY NUCLEI
ACTA PHYS. POL., B2, 535, 1971
- 405 72 068 MATSUDA H FUKUMOTO S MATSUO T
MASSES OF H, D, O(16), AND S(32) DETERMINED WITH LARGE-DISPERSION MASS SPECTROMETER
PP 477-81 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 405 72 069 MCCracken JE STOKELY JR BAYBARZ RD BEMIS CE EBY R
DETERMINATION OF THE HALF-LIVES OF CM(246,248) BY ABSOLUTE SPECIFIC ACTIVITY TECHNIQUES
J. INORG. NUCL. CHEM., 33, 3251, 1971
- 405 72 070 MCMILLAN DK PATE BD
DECAY OF AS(80)

NUCL. PHYS., A174, 593, 1971
- 405 72 071 MELDNER HW
SUPERHEAVY ELEMENT SYNTHESIS
PHYS. REV. LETT., 28, 975, 1972
- 405 72 072 MERRITT JS TAYLOR JGV
STANDARDIZATION OF NI(63) AND THE DECAY OF NI(65)
INT. J. APPL. RADIAT. ISOTOP., 22, 783, 1971
- 405 72 073 MICHEL R HERPERS U
PRECISION DETERMINATION OF THE HALF-LIVES OF RE(186,188)
RADIOCHIM. ACTA, 16, NO. 2, 115, 1971 IN GERMAN
- 405 72 074 MIYAKE R YAJIMA H
NOTE ON ATOMIC NUMBERS AND MASS NUMBERS
NIPPON KAGAKU KAISHI (J. CHEM. SOC. JAPAN, CHEM., IND. CHEM.), NO. 5, 899, 1972
- 405 72 075 MOSS CE DETRAZ C ZAIDINS CS FRANTSOV DJ
HALF-LIVES OF NA(20) AND K(36)
PHYS. REV., 5C, 1122, 1972
- 405 72 076 NAGY AZ CSOKE A SZABO E
TWO DIMENSIONAL (T.E(GAMMA)) MAPPING OF SHORT LIVED NUCLIDES
J. RADIOANAL. CHEM., 7, 365, 1971
- 405 72 077 NERO AV
DETERMINATION OF THE MASS OF O(15)
NUCL. PHYS., A185, 213, 1972
- 405 72 078 NEUMANN W HUSTER E
REDETERMINATION OF HALF-LIFE OF RB(87) BY COMPARISON OF SEPARATED ISOTOPES RB(87) AND RB(85)
Z. NATURFORSCH., 27A, 862, 1972 IN GERMAN
- 405 72 079 NILSSON SG
THEORETICAL SEARCH FOR A POSSIBLE REGION OF SUPERHEAVY ELEMENTS
PP 43-80 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII,
THE TRANSURANIUM ELEMENTS, MILLIGAN, W.O. (ED.), ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970.
FROM CONFERENCE, HOUSTON, NOV. 17, 1969. CONF-691124
- 405 72 080 OGANISYAN YT ORLOVA OA PENIONZHKEVICH YE GAVRILOV KA KIM DE EN
ISOTOPE PRODUCTION IN BOMBARDING U(238) WITH XE(136) IONS
JINR-P7-6300. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS, 1972, 8P IN
RUSSIAN, NTIS

- 405 72 081 UGATA K
ATOMIC MASS MEASUREMENTS AT OSAKA UNIVERSITY
J. MASS SPECTRY, ION PHYS., 8, 365, 1972. 18 REFERENCES
- 405 72 082 OKANO K
MEASUREMENT FOR SHORT LIVED NUCLEI
PP 21-6 OF KURRI-TR-76, KYOTO UNIV., JAPAN. RESEARCH REACTOR INST. IN JAPANESE. FROM MEETING ON
NUCLEI WITH SHORT LIFE, OSAKA, JAPAN, JUNE 30, 1969
- 405 72 083 PARADELLIS T HOUDAYER A MARK SK
DECAY OF AS(68)
NUCL. PHYS., A174, 617, 1971
- 405 72 084 RAPAPORT J ROBINSON RL FORD JLC RAD MN
STRIPPING ANALYSIS OF THE RB(87)(D,P)RB(88) REACTION
NUCL. PHYS., A170, 199, 1971
- 405 72 085 RAVN ML SUNDELL S WESTGAAR L
VERY NEUTRON DEFICIENT ISOTOPES OF CS STUDIED BY ON-LINE ISOTOPE SEPARATOR TECHNIQUES
PHYS. LTRS, 39B, 337, 1972
- 405 72 086 RUNDO J
WHAT IS THE HALF-LIFE OF CS(132)
HEALTH PHYS., 21, 877, 1971
- 405 72 087 SEFGNIII,FR DW LINDNER M MEYER RA
RE(186): NUCLEAR STRUCTURE AND AN ISOMER OF HALF-LIFE OF 2×10^{10} YEARS
NUCL. PHYS., A185, 94, 1972
- 405 72 088 SMITH LG
MEASUREMENTS OF SIX LIGHT MASSES
PHYS. REV., 4C, 22-31, 1971
- 405 72 089 SOBICZEWSKI A
SUPERHEAVY ELEMENTS
POSTEPY FIZ., 22, 573, 1971 IN POLISH. 55 REFERENCES
- 405 72 090 STEVENS CM MORELAND PE
RECENT MASS DETERMINATIONS WITH THE ARGONNE 100-INCH RADIUS MASS SPECTROMETER
PP 1296-1300 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 405 72 091 STRUTINSKI V
NUCLEON SHELLS, THE STRUCTURAL STABILITY OF NUCLEI AND FISSION
PP 83-103 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII,
THE TRANSURANIUM ELEMENTS, MILLIGAN, W.D. (ED.), ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970.
FROM CONFERENCE, HOUSTON, NOV. 17, 1969. CUN-691124
- 405 72 092 SUNG-TSING-YANG GY DRUIN VA TROFIMOV AS
PRODUCTION OF THE NEW ISOTOPE PA(216) BY BOMBARDING OSMIUM WITH PHOSPHORUS AND GOLD WITH MAGNESIUM
YADERN. FIZ., 14, 1297, 1971 IN RUSSIAN
- 405 72 093 SWINOLE DL WARD TE KURODA PK
NEW ISOTOPE LU(180)
PHYS. REV., 3C, 259, 1971
- 405 72 094 THOMPSON SG TSANG CF
SUPERHEAVY ELEMENTS
SCIENCE, 178, 1047, 1972. 72 REFERENCES
- 405 72 095 TOLAR J
PROSPECTS FOR MAKING NEW TRANSURANIUM ELEMENTS
POKROKY MAT. FYZ. ASTRON., 16, NO. 4, 187, 1971 IN CZECH. 13 REFERENCES
- 405 72 096 TORTI R GRAETZER R
REACTION RB(87)(D,P)RB(88) NEAR THE COULOMB BARRIER
NUCL. PHYS., A171, 305, 1971
- 405 72 097 TOTH KS HAHN RL IJAZ MA
INVESTIGATION OF THULIUM ALPHA EMITTERS: NEW ISOTOPES, TM(155,156)
PHYS. REV., 4C, 223, 1971
- 405 72 098 TRENTLMAN GF FREEDOM BM (2) KASHY E (2) PROCTOR ID (3)
1. EXPERIMENTAL TEST OF THE ISOBARIC MULTIPLY MASS EQUATION. 2. PRECISION MASS MEASUREMENT OF C(9),
DI(13), AND MG(21) AND THE ISOBARIC-MULTIPLY MASS EQUATION. 3. MASS OF SI(28) AND THE
ISOBARIC-MULTIPLY MASS EQUATION
1. THESIS, MICHIGAN STATE UNIV., EAST LANSING, 1970. 82P. UNIV. MICROFILMS ORDER NO. 71-11,993. 2.
PHYS. REV., 3C, 2205, 1971. 3. PHYS. LTRS, 35B, 570, 1971
- 405 72 099 LMEARGER CJ ROBINSON JA REECE RR BEARSE RC AHLEN MC
DETERMINATION OF THE MASS OF Y(87)
NUCL. PHYS., A169, 109, 1971
- 405 72 100 VAN DER BAAN JG LEIGHTON HG
INVESTIGATION OF THE S(34)(D,P)S(35) REACTION AT E(SUB D) = 10 MEV
NUCL. PHYS., A170, 607, 1971
- 405 72 101 VAN KLINKEN J GDERING S HABS D
SM(139), A NEW NUCLEIDE OF RELEVANCE FOR THE SYSTEMATICS OF THE N=77 ISOMERS
Z. PHYS., 246, NO. 5, 369, 1971
- 405 72 102 VAN SCHANDEVIJL R VAN GRIEKEN R HOSTE J
HALF-LIFE OF AL(28)
J. RADIOANAL. CHEM., 9, 55, 1971
- 405 72 103 VANDLIK TB VANDLIK Y ZAITCEVA NG MATE Z MAKHUNKA I
MAKIUNKA M FENESH T TYRROFF K YAKHIM M
NEW ISOTOPE TL(189)
JINR-P6-6288. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR. LAB. OF NUCLEAR PROBLEMS, 1972. 8P IN
RUSSIAN. NTIS

- 405 72 104 WALLACE G MCCALLUM GJ CHAPMAN NG
DECAY OF AG(112)
NUCL. PHYS., A182, 417, 1972
- 405 72 105 WALLIN LB
TRANSURANIUM ELEMENTS: PRESENT AND FUTURE
FOA-4-4463, FORSVARETS FORSKNINGSSANSTALT, STOCKHOLM, SWEDEN, JUNE 1971, 70P IN SWEDISH, NTIS
- 405 72 106 WALZ KF WEISS HM
MEASUREMENT OF THE HALF-LIVES OF CO(60), CS(137), AND BA(133)
LB-G-3049, (LB/G) TRANSLATED FOR ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, FROM Z.
NATURFORSCH., 25A, 921, 1970, 12P, NTIS
- 405 72 107 WAPSTRA AH GOVE NB
1971 ATOMIC MASS EVALUATION, 1. ATOMIC MASS TABLE, 2. NUCLEAR-REACTION AND SEPARATION ENERGIES, 3.
EVALUATION OF INPUT VALUES: ADJUSTMENT PROCEDURES
NUCL. DATA, SECT. A, 9, 267-301, 303-55, AND 357-455, 1971
- 405 72 108 WAPSTRA AH
PRECISION DETERMINATION OF ATOMIC MASSES AND THE EINSTEIN MASS-ENERGY RELATION
NAT. BUR. STAND. (U.S.), SPEC. PUBL., NO. 343, 151-4, 1971, FROM INTERNATIONAL CONFERENCE ON
PRECISION MEASUREMENT AND FUNDAMENTAL CONSTANTS, GAITHERSBURG, MD., AUG. 3, 1970
- 405 72 109 WARD TE MORCOS NA KURODA PK
DECAY OF PM(152) ISOMERS
J. INORG. NUCL. CHEM., 34, 13, 1972
- 405 72 110 WILKINSON DH ALBURGER DE GOOSMAN DR
PROPERTIES OF B(13) AND NA(20): THE SECOND-CLASS CURRENT PROBLEM
NUCL. PHYS., A166, 661, 1971
- 405 72 111 WINSBERG L
1. DETERMINATION OF CROSS SECTIONS WITH AN ON-LINE ISOTOPE SEPARATOR, 2. DETERMINATION OF HALF-LIVES
WITH AN ON-LINE ISOTOPE SEPARATOR
NUCL. INSTRUM. METHODS, 95, 23, 1971 AND 96, 301, 1971
- 405 72 112 YAMADA M
NUCLEI FAR OFF BETA STABILITY LINE AND GROSS THEORY OF NUCLEI
PP 3-6 OF KURRI-TR-76, KYOTO UNIV., JAPAN, RESEARCH REACTOR INST. IN JAPANESE, FROM MEETING ON
NUCLEI WITH SHORT LIFE, OSAKA, JAPAN, JUNE 30, 1969
- 405 72 113 YOSHIZAWA Y
WHY WE STUDY NUCLEI FAR OFF STABILITY LINE
PP 1-2 OF KURRI-TR-76, KYOTO UNIV., JAPAN, RESEARCH REACTOR INST. IN JAPANESE, FROM MEETING ON
NUCLEI WITH SHORT LIFE, OSAKA, JAPAN, JUNE 30, 1969
- 405 72 114 YU YM CARETTO AA
HALF-LIVES OF ZR(84,85)
J. INORG. NUCL. CHEM., 33, 3223, 1971
- 405 72 115 ZEE A
PROTON-NEUTRON MASS DIFFERENCE PROBLEM AND RELATED TOPICS
PHYS. REP., 3C, NO. 3, 127, 1972
- 405 72 116 ZEL'DOVICH YB
PERIODIC LAW AND MODERN PHYSICS

VESTN. AKAD. NAUK SSSR, NO. 1, 35, 1970 IN RUSSIAN
- 405 72 117 ZIONI J JAFFE AA FRIEDMAN E
INVESTIGATION OF PROTON-RICH NUCLEI AND OTHER PRODUCTS FROM BOMBARDMENT OF MG(24), SI(28), AND S(32)
BY O(16) IONS
NUCL. PHYS., A181, 465, 1972
- 405 72 118 ZVARA I
TRANSMETALLOIDS AND SUPERHEAVY ELEMENTS IN LABORATORY AND NATURE
PP 153-85 OF PROCEEDINGS OF THE ROBERT A. WELCH FOUNDATION CONFERENCES ON CHEMICAL RESEARCH, XIII,
THE TRANSURANIUM ELEMENTS, MILLIGAN, W.O. (ED.), ROBERT A. WELCH FOUNDATION, HOUSTON, TEXAS, 1970,
FROM CONFERENCE, HOUSTON, NOV. 17, 1969, CONF-691124
- 410 72 001 AALTONEN J
ISOTOPE SEPARATION BY ION EXCHANGE AND ISOTOPE RATIO ANALYSIS BY GAMMA SPECTROMETER
PP 390-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 410 72 002 ACHTERBERG ED DE AISENBERG EY IGLESIAS FC
ON-LINE SEPARATION OF SHORT LIVED IODINE ISOTOPES
PP 108-17 OF BMBW-FBK-70-28, COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES, ARGENTINA, FROM
PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC SEPARATORS AND THE TECHNIQUES OF
THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 410 72 003 ADAMS JB
EVALUATION OF THE COMPRESSIBLE GAS VORTEX FOR SEPARATION OF URANIUM ISOTOPES
K-CA-2032(REV.1), OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., MARCH 1972, 20P, NTIS
- 410 72 004 AFANASEV VP GROMOVA II MONCHKA D
ELECTROMAGNETIC SEPARATION OF SHORT LIVED ISOTOPES OF RADON, XENON, AND KRYPTON
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 15, 41, 1972
- 410 72 005 AGRAWAL JP
1. FRACTIONATION OF O(18) AND C(13) ISOTOPES BY CHEMICAL EXCHANGE OF CARBON DIOXIDE WITH AMINE
CARBAMATES, 2. ENRICHMENT OF C(13) BY CHEMICAL EXCHANGE OF CARBON DIOXIDE WITH AMINE CARBAMATES IN
NONAQUEOUS SOLVENTS
SEPAR. SCI., 6, 819 AND 831, 1971
- 410 72 006 AGREST MM SUBBOTIN VM PARTSAKHASHVILI GL CHACHIBAYA TS
CALCULATION OF NONSTEADY STATE PROCESSES FOR THE SEPARATION OF MICROCOMPONENT ISOTOPIC MIXTURES.
KHIM. PROM. (MOSCOW), NO. 1, 56, 1972 IN RUSSIAN
- 410 72 007 ALEXEFF I
CURRENT LIMITATIONS IN CALUTRONS
ORNL-TM-3722, OAK RIDGE NATIONAL LAB., TENN., APRIL 1972, 10P, NTIS

- 410 72 008 ALLAM S ZAKARIA N ABDEL-RASSOUL AA
ANION EXCHANGE SEPARATIONS OF ANTIMONY AND TIN ISOTOPES ISOLATED FROM FISSION PRODUCTS
AREAEE-127, ATOMIC ENERGY ESTABLISHMENT, CAIRO, EGYPT, NUCLEAR CHEMISTRY DEPT., 1971. 28P. NTIS
- 410 72 009 ANZAI S NAGASIMA Y SIOZAWA S
GASEOUS DIFFUSION CASCADE UNIT
SUMITOMO JUKIKAI GHO, 18. NO. 51, 38, 1970 IN JAPANESE
- 410 72 010 AXENTE D PIRINGER O (2,3)
1. TECHNIQUE USED TO SEPARATE N(15) ON COLUMNS. 2. DETERMINATION OF ACTIVATION ENERGY OF N(15)/N(14)
ISOTOPIC EXCHANGE REACTION BETWEEN NITRIC OXIDE, NITROGEN DIOXIDE, AND NITRIC ACID. II. 3.
INFLUENCE OF HYDROGEN AND NITRATE IONS ON ISOTOPIC EXCHANGE REACTION BETWEEN NITRIC OXIDE AND
NITRIC ACID. III.
1. STUD. CERCEZ, CHIM., 19. 395-415, 1971 IN RUMANIAN. 59 REFERENCES. 2 AND 3. J. INORG. NUCL. CHEM
.. 34. 847 AND 1819, 1972
- 410 72 011 BAECHMANN K HOFFMANN P (2)
1. CHEMICAL PROBLEMS OF THE ON-LINE SEPARATION OF SHORT LIVED NUCLIDES. 2. CHEMICAL PROBLEMS IN THE
PRODUCTION OF SUPERHEAVY ELEMENTS BY NUCLEAR REACTIONS
1. PP 126-45 OF BMBW-FBK-70-28. TECHNISCHE HOCHSCHULE, DARMSTADT, WEST GERMANY.
EDUARD-ZINTL-INSTITUT. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970. 2.
RADIOCHIM. ACTA, 15. NO. 4. 153. 1971 IN GERMAN
- 410 72 012 BALESTRINI SJ FORMAN L WOLFSBERG K
ON-LINE TECHNIQUE FOR MEASURING INDEPENDENT FISSION YIELDS
PP 68-77 OF BMBW-FBK-70-28. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC
ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 410 72 013 BANNENBERG JG BOERBOOM AJM
40 - 200 KV ION ACCELERATOR WITH THREE BEAM LINES
PP 562-75 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS. 1970
- 410 72 014 BASOV YG PANCHENKOV GM
1. SEPARATION OF ISOTOPES IN THE FORMATION OF UNSTABLE INTERMEDIATES. 2. CALCULATION OF ISOTOPE
SEPARATION COEFFICIENTS. 3. ANALYSIS OF ISOTOPE SEPARATION USING EXPERIMENTAL DATA. 1.
NONEQUILIBRIUM SEPARATION FACTOR. 4. FORMULA OF SEPARATION FACTOR FOR OSCILLATORY AND ROTATORY
RELAXATION IN GASES
1. RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45. 696. 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45. 1235.
1971. 2. ZH. FIZ. KHIM., 45. 2417, 1971. 3. ZH. FIZ. KHIM., 46. 871. 1972. 4. VESTN. MOSK. UNIV.,
SER. II. KHIM., NO. 3. 278. 1972
- 410 72 015 BECKER EW BIER W (2) EHRELFELD W (2) EISENBEISS G (2)
1. ENRICHMENT OF U(235) BY THE NOZZLE PROCESS. 2. PHYSICAL PRINCIPLES OF U(235) ENRICHMENT ACCORDING
TO THE SEPARATION NOZZLE METHOD. THE EFFECTS OF ADDED LIGHT GASES
1. PP E-1-6 OF SEPARATION ISOTOPIQUE DE L'URANIUM ET SON ECONOMIE. SOCIETE DE CHIMIE INDUSTRIELLE,
RUEIL-MALMAISON, FRANCE, 1971. FROM MEETING, PARIS, FRANCE, NOV. 27, 1970. CONF-701133. 2. 2.
NATURFORSCH., 26A. 1377. 1971 IN GERMAN. TRANSLATED AS LIB/TRANS-417 FOR AUSTRALIAN ATOMIC ENERGY
COMMISSION. 15P. NTIS
- 410 72 016 BELASHCHENKO DK
ELECTRIC TRANSPORT OF TRACES OF TIN ISOTOPES IN THE TERNARY SYSTEM TIN-BISMUTH-CADMIUM AT 300
DEGREES C
IZV. AKAD. NAUK SSSR, METAL., NO. 5. 90. 1970 IN RUSSIAN
- 410 72 017 BENEDICT M BERMAN AS BIGELEISEN J POWELL JE SHACTER J
VANSTRUM PR
REPORT OF URANIUM ISOTOPE SEPARATION REVIEW AD HOC COMMITTEE
ORO-694. OAK RIDGE OPERATIONS OFFICE, AEC, TENN., JUNE 1972. 68P. NTIS
- 410 72 018 BERESTOV AT MALYSHEV SP
ON POSSIBILITY OF USING CRITICAL STATE FOR SEPARATION OF ISOTOPES
ATOM. ENERG. (USSR), 32. 424. 1972 IN RUSSIAN
- 410 72 019 BERGSTROM I FRANSSON K AF UGLAS M
PINGIS PROJECT
PP 44-8 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS. 1970
- 410 72 020 BEYER GJ HERRMANN E PIOTROWSKI A RAIKO J TYRROFF H
NEW METHOD FOR RARE EARTH ISOTOPE SEPARATION
NUCL. INSTRUM. METHODS, 96. 437. 1971
- 410 72 021 BIER K BRANDSTAEDTER H EHRELFELD U EHRELFELD W
INVESTIGATION OF THE PATH OF FLOW OF HE-AR AND HE-SF6 MIXTURES IN THE SEPARATION NOZZLE WITH
MOLECULAR FLOW TOWARD THE PRESSURE PROBE
KFK-1440. KERNFORSCHUNGSZENTRUM, INSTITUT FUER KERNVERFAHRENSTECHNIK, AND TECHNISCHE HOCHSCHULE,
KARLSRUHE, WEST GERMANY, AUG. 1971. 57P IN GERMAN. TRANSLATED AS LIB/TRANS-429 FOR AUSTRALIAN
ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT. 55P
- 410 72 022 BIGELEISEN J
CALCULATION OF SOME ISOTOPE SEPARATION FACTORS FOR CHEMICAL EXCHANGE, DISTILLATION, EXCHANGE
DISTILLATION, AND ABSORPTION USING UF6 (G)
J. INORG. NUCL. CHEM., 34. 2505. 1972. UR-3999-11. ROCHESTER UNIV., NEW YORK, DEPT. OF CHEMISTRY,
1971. 18P
- 410 72 023 BLEY P EHRELFELD W
DETERMINATION OF DISSIPATIVE LOSSES IN THE SEPARATION NOZZLE FLOW WITH PITOT-TUBES
KFK-1562. THESIS. SUBMITTED BY P. BLEY TO TECHNISCHE HOCHSCHULE, KARLSRUHE, WEST GERMANY, MARCH
1971. 46P IN GERMAN. KERNFORSCHUNGSZENTRUM, INSTITUT FUER KERNVERFAHRENSTECHNIK
- 410 72 024 BLUMKIN S VON HALLE E
1. EVALUATION OF THE PERFORMANCE OF THERMAL DIFFUSION COLUMNS SEPARATING XENON ISOTOPES. 2. REVIEW
OF THE PERFORMANCE OF SEPARATION CASCADES AND THE BEHAVIOR OF THE MINOR URANIUM ISOTOPES. 3.
BEHAVIOR OF THE URANIUM ISOTOPES IN SEPARATION CASCADES. I. IDEAL CASCADES
1. K-1490. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., JAN. 1962. 35P. DECLASSIFIED NOV. 1971. 2.
K-04-2103. UNION CARBIDE CORP., OAK RIDGE, TENN., NUCLEAR DIV., MARCH 1972. 48P. 3. K-1839(P1.1).
OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., NOV. 1972. 62P. NTIS

- 410 72 025 BOCHIN VP ZOLOTAREV VS ROMANOV VS (1) GAVRILOV BE (2)
1. PREPARATION OF STABLE ISOTOPES FOR SCIENTIFIC RESEARCH PURPOSES. 2. ELECTROMAGNETIC SEPARATION OF THE ISOTOPES OF THE PLATINUM-PALLADIUM GROUP
1. ISOTOPENPRAXIS. 7. NO. 5. 185. 1971 IN RUSSIAN. 2. ISOTOPENPRAXIS. 7. NO. 6. 232. 1971 IN RUSSIAN. TRANSLATED AS ORNL-TR-2570 FOR OAK RIDGE NATIONAL LAB., TENN. 12P. NTIS
- 410 72 026 BOEHRINGER A
DEFINITION OF THE PERFORMANCE OF ISOTOPE SEPARATION PLANTS AND THEIR ELEMENTS
ARCH. ELEKTROTECH. (BERLIN). 54. NO. 3. 127. 1971 IN GERMAN
- 410 72 027 BOGAARDT M
PROGRESS IN ULTRACENTRIFUGE DEVELOPMENT IN THE NETHERLANDS
AT. JAP. 15. NO. 3. 31. 1971. CONF-710344-5. FROM 4TH ANNUAL CONFERENCE OF THE JAPAN ATOMIC INDUSTRIAL FORUM, TOKYO, JAPAN, MARCH 15, 1971
- 410 72 028 BOGE M BOURIANT M CHANTEREAU E OCUSSON S BOUCHEZ R
ISOTOPIC CONTAMINATION IN THE GRENOBLE ISOTOPE SEPARATOR
PP 381-93 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 029 BONNEVIER B
EXPERIMENTAL EVIDENCE OF ELEMENT AND ISOTOPE SEPARATION IN A ROTATING PLASMA
PLASMA PHYS. 13. 763. 1971
- 410 72 030 BRIGOLI B
SVILUPPO DEI METODI DI SEPARAZIONE DEGLI ISOTOPI ED EVOLUZIONE DEI COSTI DI ARRICCHIMENTO
ENERG. NUCL. (PARIS). 18. 715. 1971
- 410 72 031 BRISSOT R
MEASUREMENT OF FISSION YIELDS USING ON-LINE ISOTOPE SEPARATION
FRNC-TH-92. THESIS. GRENOBLE UNIV., FRANCE. 1971. 64P IN FRENCH. NTIS
- 410 72 032 BROWN LL
CHEMICAL EXCHANGE METHOD OF CONCENTRATING CARBON ISOTOPES
UNITED STATES PATENT 3,607,010. SEPTEMBER 21, 1971. TO UNITED STATES ATOMIC ENERGY COMMISSION. FILED FEBRUARY 17, 1969
- 410 72 033 BULANG W
SEPARATION OF URANIUM ISOTOPES BY THE DIFFUSION, GAS CENTRIFUGE, AND SEPARATION NOZZLE METHOD AND THEIR ECONOMIC SIGNIFICANCE
CHEM. ZTG. 95. NO. 6. 252. 1971 IN GERMAN
- 410 72 034 CAMPARGUE R
PROCESS AND DEVICE FOR THE SEPARATION OF GAS MOLECULES OF DIFFERENT MASSES
BRITISH PATENT 1,247,069. SEPTEMBER 22, 1971. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. FILED FEBRUARY 17, 1969
- 410 72 035 CAMPLAN J MEUNIER R SARROUY JL
CONTAMINATION PROCESSES DURING GAS COLLECTIONS IN MILLIGRAM QUANTITIES
PP 209-12 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 036 CHAMBU C BLANC C (1)
FRONTAL ISOTOPIC CHROMATOGRAPHY: APPLICATION TO BORON
1. NP-19017. SOCIETE NATIONALE DES PETROLES D'AQUITAINE, PARIS, FRANCE. LABORATOIRES CHIMIE PHYSIQUE, MARCH 1968. 77P IN FRENCH. 2. NP-19029. THESIS. PARIS UNIV., FRANCE. 1968. 123P IN FRENCH. NTIS
- 410 72 037 CHO N BREILLAT JP BRANTLEY JN ANDERSON NG
K-II CENTRIFUGE FLOW IMPROVEMENT
K-L-6280. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., AND OAK RIDGE NATIONAL LAB., TENN., OCT. 1971. 14P. NTIS
- 410 72 038 DMITREVSKEYA LI DMITREVSKEYI LL KATAL'NIKOV SG
METHOD OF CALCULATING THE NUMBER OF THEORETICAL STAGES OF SEPARATION USING A SUBSTITUTING LINE
KERNENERGIE. 13. NO. 12. 387. 1970 IN RUSSIAN
- 410 72 039 DROPESKY BJ
ON-LINE ISOTOPE SEPARATOR PROJECT PROPOSED FOR LAMPF
PP 99-103 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 040 EGIAZAROV AS KAVALIDZE MS KERNER MN OZIASHVILI EL ESAKIYA KE
SEPARATION OF SULFUR ISOTOPES BY A CHEMICAL EXCHANGE METHOD
ISOTOPENPRAXIS. 7. NO. 9. 379. 1971 IN RUSSIAN. TRANSLATED AS MLM-1936(TR) FOR MOUND LAB., MIAMISBURG, OHIO. 15P. NTIS
- 410 72 041 EILERING LF
ANALYSIS OF THE INTERDEPENDENCIES OF PARAMETERS AFFECTING THE COMPRESSOR EFFICIENCY UTILIZING THE SYSTEMS ENGINEERING APPROACH
GAT-T-1748. THESIS. OHIO UNIV., ATHENS, AUG. 1971. 27P. GOODYEAR ATOMIC CORP., PIKETON, OHIO
- 410 72 042 ERIKSEN TE
SULFUR ISOTOPE EFFECTS. 1. THE ISOTOPIC EXCHANGE COEFFICIENT FOR THE SULFUR ISOTOPES S(34)-S(32) IN THE SYSTEM SO2(G)-HSO3(-)(AO) AT 25, 35, AND 45 DEGREES C. 2. THE ISOTOPIC EXCHANGE COEFFICIENTS FOR THE SULFUR ISOTOPES S(34)-S(32) IN THE SYSTEM SO2(G)-AQUEOUS SOLUTIONS OF SO2. 3. ENRICHMENT OF S(34) BY CHEMICAL EXCHANGE BETWEEN SO2(G) AND AQUEOUS SOLUTIONS OF SO2. 4. SULFUR ISOTOPE EFFECTS IN ANION EXCHANGE SYSTEMS
ACTA CHEM. SCAND. 26. 573. 581. 975. AND 980. 1972
- 410 72 043 ERLKENKEUSER H
PREDICTABLE LOW ENRICHMENT OF METHANE ISOTOPES BY CLUSIUS-DICKEL THERMAL DIFFUSION COLUMNS FOR USE IN RADIOCARBON DATING TECHNIQUE
Z. NATURFORSCH. 26A. 1365. 1971
- 410 72 044 FARRAR RL SMITH DF
PHOTOCHEMICAL ISOTOPE SEPARATION AS APPLIED TO URANIUM
K-L-3054(REV.1). UNION CARBIDE CORP., OAK RIDGE, TENN., NUCLEAR DIV., MARCH 1972. 45P. NTIS

- 410 72 045 FENN JB WHITE JR
PROCESS FOR SEPARATING URANIUM ISOTOPES
UNITED STATES PATENT 3,626,665, DECEMBER 14, 1971. TO MOBIL OIL CORP. FILED AUGUST 29, 1969
- 410 72 046 FERSCH KE HOYNACKI JJ (1) PEPKOWITZ LP (1)
1. AVAILABILITY AND COST OF B(10) FOR REACTOR CONTROL. 2. 12 INCH PRODUCTION COLUMN EVALUATION
NUMEC-3292-20 AND NUMEC-3292-21. FEB. 1971 AND DEC. 1970. 31P AND 19P. NUCLEAR MATERIALS AND
EQUIPMENT CORP., LEWISTON, N.Y., NIAGARA DIV.
- 410 72 047 FLEURY A HANON F NGUYEN LONG DEN
TECHNIQUES OF SEPARATION OF CS(134) ISOMERS FORMED IN FISSION OF U(238) BY ALPHA PARTICLES OF MEDIUM
ENERGY
J. MASS SPECTRY, ION. PHYS., 7, 221, 1971. 17 REFERENCES
- 410 72 048 FREEMAN JH
1. VARIABLE GEOMETRY SEPARATOR AND LOW ENERGY HEAVY ION ACCELERATOR. 2. STIGMATIC FOCUSING EFFECTS
IN A VARIABLE GEOMETRY ISOTOPE SEPARATOR. 3. LOW ENERGY HEAVY ION ACCELERATORS
1. PP 420-30 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969. 2 AND 3. PP 373-80 AND PP
534-61 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 049 FREJACQUES C LEDUC C PECQUEUR M
FRENCH DEVELOPMENT PLANS REGARDING THE SEPARATION OF URANIUM ISOTOPES
A-CONF.49/P-606, COMMISSARIAT A L'ENERGIE ATOMIQUE, PARIS, FRANCE, APRIL 1971. 8P IN FRENCH.
CONF-710901-250. PREPARED FOR 4TH INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY,
GENEVA, SWITZERLAND, SEPT. 6, 1971
- 410 72 050 FRITSCH HJ SCHUETTE R
SEPARATION OF UF6 AND ADMIXTURE GAS AT A SEPARATION NOZZLE FACILITY WITH A COMBINATION OF
PRELIMINARY FILTER-SEPARATION NOZZLE AND LOW TEMPERATURE FINE SEPARATION
KFK-1437. THESIS. SUBMITTED BY H.J. FRITSCH TO TECHNISCHE HOCHSCHULE, KARLSRUHE, GERMANY, JULY 1971.
79P IN GERMAN. NTIS. KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FUER
KERNVERFAHRESTECHNIK
- 410 72 051 GALIMOV EM
RELATION BETWEEN THE ISOTOPE SEPARATION FACTOR AND EQUILIBRIUM CONSTANTS FOR CARBON ISOTOPE EXCHANGE
REACTIONS IN HYDROCARBON SYSTEMS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 665, 1971. TRANSLATED FROM Zh. Fiz. Khim., 45, 1187, 1971
- 410 72 052 GHATE MR MATHUR BP SALTAMACH VG TAYLOR TI
SEPARATION OF ISOTOPES
COO-3263-1. ANNUAL PROGRESS REPORT, COLUMBIA UNIV., N.Y., DEPT. OF CHEMISTRY, NOV. 1971. 76P. NTIS
- 410 72 053 GILLETTE JH
ISOTOPE PROGRAM (5000)
ORNL-TM-3621. PROGRESS REPORT FOR QUARTER ENDING SEPT. 30, 1971. OAK RIDGE NATIONAL LAB., TENN.,
NOV. 1971. 17P
- 410 72 054 GREBER H
ELECTROMAGNETIC DEVICE FOR SEPARATION OF FLUID ISOTOPES
UNITED STATES PATENT 3,594,573, JULY 20, 1971, FILED JUNE 20, 1968
- 410 72 055 GUILLUUD JC
CERTAIN ASPECTS OF MOLECULAR DIFFUSION IN VORTEX FLOW: POSSIBLE APPLICATIONS TO THE ISOTOPIC
SEPARATION BY FIXED WALL CENTRIFUGATION

FRNC-TM-213. THESIS. UNIVERSITE SCIENTIFIQUE ET MEDICALE DE GRENOBLE, FRANCE, 1971. 276P IN FRENCH.
NTIS
- 410 72 056 HAGEBOE E
TARGET CHEMISTRY AT ISOLDE
PP 146-57 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 057 HAGIWARA Z TAKAKURA Y
ENRICHMENT OF LITHIUM ISOTOPES BY ION EXCHANGE
PP 383-9 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 410 72 058 HAMILTON DK
YUNIOR A CORPORATE UNIVERSITY ISOTOPIC SEPARATOR ESTABLISHED ON-LINE ON HEAVY ION ACCELERATOR IN
OAK RIDGE
IZV. AKA. NAUK SSSR, SER. FIZ., 36, 143, 1972
- 410 72 059 HAUBACH WJ ECK CF GROVE GR
THERMAL DIFFUSION OF XENON ISOTOPES: PRELIMINARY STUDIES
MLM-1111. MOUND LAB., MIAMISBURG, OHIO, SEPT. 1962, DECLASSIFIED OCT. 1971. 29P. NTIS
- 410 72 060 HIGASHI K SAIJU I DOI H
OPTIMUM DESIGN OF STEP CASCADES FOR URANIUM ENRICHMENT BY GASEOUS DIFFUSION PROCESS
MEM. FAC. ENG., KYOTO UNIV., 33, NO. 3, 163, 1971
- 410 72 061 HILL KJ NELSON RS (1) FRANCIS RJ (2,3) HAYWARD RJ (3)
1. HARWELL 150 KEV HEAVY ION ACCELERATORS. 2. HARWELL 500 KEV COCKCROFT WALTON ACCELERATOR AS
MODIFIED FOR THE PRODUCTION OF HEAVY IONS. 3. HARWELL 80 KEV HEAVY ION ACCELERATOR
PP 576-83, PP 584-90, AND PP 591-5 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON
ELECTROMAGNETIC ISOTOPIC SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 062 IHLE HR MURRENHOFF A NEUBERT A KURZ U LIPPERTS H
SEPARATIONS OF LOW ABUNDANT RARE EARTH ISOTOPES
PP 203-8 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 063 IKSANOV RG SAFONOV MS GORSIKOV VI
CALCULATING LONGITUDINAL DIFFUSION IN EQUATIONS OF TWO-TEMPERATURE METHOD FOR ISOTOPE SEPARATION IN
COLUMNS
Zh. Fiz. Khim., 46, 526, 1972 IN RUSSIAN
- 410 72 064 IPPONMATSU T
RECENT ADVANCES ASSOCIATED WITH URANIUM ENRICHMENT IN JAPAN
AT. JAPAN, 15, NO. 3, 29-31, 1971. CONF-710344-3. FROM 4TH ANNUAL CONFERENCE OF THE JAPAN ATOMIC
INDUSTRIAL FORUM, TOKYO, JAPAN, MARCH 15, 1971

- 410 72 065 ISHIDA T
CARBON ISOTOPE FRACTIONATION
NYO-4266-1. ANNUAL PROGRESS REPORT, MARCH 1971 - DEC. 1971. BROOKLYN COLL., N.Y., JAN. 1972. 40P.
COD-3127-1. NTIS
- 410 72 066 JASTRZEBSKI J
1. NUCLEAR STRUCTURE STUDIES WITH ON-LINE ISOTOPE SEPARATION METHODS. I. TECHNICAL PROBLEMS AND APPLICATIONS OF THE ON-LINE ISOTOPE SEPARATION. II. COLLECTIVE STATES IN EVEN NUCLEI IN W-PT REGION. 2. ON-LINE ISOTOPE SEPARATION
1. INR-1306. AND INR 1307. 1971. SSP AND 101P IN POLISH. INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND. NTIS. 2. POSTĘPY FIZ., 22. NO. 4. 315. 1971 IN POLISH
- 410 72 067 JELINEK-FINK P
GERMAN APPROACH TO URANIUM ENRICHMENT BY THE CENTRIFUGE PROCESS
AT. JAPAN. 15. NO. 3. 33. 1971. CONF-710344-6. FROM 4TH ANNUAL CONFERENCE OF THE JAPAN ATOMIC INDUSTRIAL FORUM, TOKYO, JAPAN, MARCH 15, 1971
- 410 72 068 JORDAN S BONNER FT
FRACTIONATION OF OXYGEN ISOTOPES BETWEEN NO AND H2O
J. CHEM. PHYS., 54. 4963. 1971
- 410 72 069 KAMINSKII VA GIORGADZE NA VARTAPET RS (2)
1. SIMULATION OF THE SEPARATION PROCESS IN A PACKED COLUMN. 2. SIMULATION OF HYDRODYNAMIC PROCESSES IN SEPARATION OF ISOTOPES IN PACKED COLUMNS
KERNENERGIE. 14. NO. 6. 194. 1971 IN RUSSIAN AND SOV. ATOM. ENERGY (ENGL. TRANS.), 30. 54. 1971
- 410 72 070 KANNO H
1. ISOTOPE EFFECTS IN COUNTERCURRENT ELECTROMIGRATION IN MOLTEN METAL HALIDES. 2. TEMPERATURE DEPENDENCE AND TIME VARIATION OF SEPARATION FACTORS IN ISOTOPE FRACTIONATION BY ELECTROMIGRATION IN MOLTEN SALTS
J. INORG. NUCL. CHEM., 33. 1561. 1971 AND J. NUCL. SCI. TECHNOL. (TOKYO), 8. 725. 1971
- 410 72 071 KARNOHAPATRO SG
CHROMATIC ABERRATION IN ISOTOPE SEPARATORS DUE TO CHARGE EXCHANGE
PP 394-7 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS. 1970
- 410 72 072 KEELY WM ATWOOD K
1. THE DISTRIBUTION OF DEUTERIUM OXIDES AND SULFIDES BETWEEN THE LIQUID AND VAPOR PHASES OF THE WATER-HYDROGEN SULFIDE SYSTEM. 2. SEPARATION OF THE BORON ISOTOPES BY ATMOSPHERIC DISTILLATION OF DIMETHYL ETHER-BORON TRIFLUORIDE COMPLEX
T-9-40-1-1 AND T-9-40-2-2. JULY 1951 AND JUNE 1953. 20P AND 25P. GIRDLER CORP., LOUISVILLE, KENTUCKY
- 410 72 073 KELLNER K
1. CHEMICAL PURIFICATION AND TREATMENT OF CADMIUM ISOTOPES SEPARATED BY ELECTROMAGNETIC WAY. 2. CHEMICAL PURIFICATION OF ELECTROMAGNETICALLY SEPARATED ISOTOPES OF CALCIUM AND MAGNESIUM
ISOTOPENPRAXIS. 8. NO. 1. 22. 1972 AND 8. NO. 2. 61. 1972. NUMBER 2 TRANSLATED AS ORNL-TR-2649 FOR OAK RIDGE NATIONAL LAB., TENN. 9P. NTIS
- 410 72 074 KEREK A
LEVELS OF TE(128) POPULATED IN 8.9 H BETA(-) DECAY OF SB(128)
NUCL. PHYS., A185. 497. 1972
- 410 72 075 KESHAVIAH VR HAMRIN CE
PARAMETRIC PUMPING AND ITS APPLICATION TO THE SEPARATION OF ISOTOPES
ORO-3913-2. THESIS. SUBMITTED BY VISHWANATH R. KESHAVIAH, KENTUCKY UNIV., LEXINGTON, DEPT. OF
CHEMICAL ENGINEERING. 108P. PROGRESS REPORT JUNE 1970 - JUNE 1971
- 410 72 076 KILPIN D
ISOTOPE SEPARATION USING LASER EXCITATION
WRE-TM-494(WR AND D). WEAPONS RESEARCH ESTABLISHMENT, SALISBURY, AUSTRALIA, OCT. 1971. 14P. NTIS
- 410 72 077 KOLOKOL'TSOV NA LAQINTSOV NI (1) SULABERIDZE GA (2)
1. THEORY OF ASYMMETRIC SEPARATION CASCADES WITH AN ARBITRARY ENRICHMENT IN THE SEPARATION ELEMENT.
2. CONSTRUCTION OF MOST ADVANTAGEOUS ASYMMETRIC CASCADES FOR SEPARATING MULTICOMPONENT ISOTOPE MIXTURES
1. AT. ENERG. (USSR), 29. 300. 1970 IN RUSSIAN. 2. SOV. AT. ENERGY (ENGL. TRANS.), 31. 954. 1971. TRANSLATED FROM AT. ENERG. (USSR), 31. NO. 3. 223. 1971
- 410 72 078 KUCHINOV VP NIKOLAEV VI TUBIN AA
SEPARATION OF LIQUID MIXTURES BY THERMODIFFUSION IN AN ELECTRIC FIELD
AT. ENERG. (USSR), 32. NO. 2. 167. 1972 IN RUSSIAN
- 410 72 079 KUME S
CHEMICAL SEPARATION IN AN ISOTOPE SEPARATION ON-LINE (ISOL) SYSTEM
PP 8-14 OF KURRI-TR-76. KYOTO UNIV., JAPAN. RESEARCH REACTOR INST. IN JAPANESE. FROM MEETING ON NUCLEI WITH SHORT LIFE, OSAKA, JAPAN, JUNE 30, 1969
- 410 72 080 KUZNETSOV AI PANCHENKOV GM MAKAROV AV
UNIVERSAL AUTOMATIC APPARATUS FOR ISOTOPE SEPARATION BY CHEMICAL EXCHANGE WITH THERMAL PHASE REVERSAL
VESTN. MOSK. UNIV., SER. II. KHIM., 12. NO. 6. 714. 1971 IN RUSSIAN
- 410 72 081 KUZNETSOVA EM SALINOVA KM
1. DETERMINATION OF ISOTOPE SINGLE SEPARATION FACTOR BY THE METHOD OF RAYLEIGH DISTILLATION. 2. REGULARITY OF COEFFICIENT VALUE CHANGE IN A SINGLE ISOTOPE SEPARATION DURING THEIR ADSORPTION ON VARIOUS CATIONITE EXCHANGE FORMS
VESTN. MOSK. UNIV., SER. II. KHIM., 12. NO. 4. 484. 1971 IN RUSSIAN AND Zh. FIZ. KHIM., 46. 1002. 1972 IN RUSSIAN
- 410 72 082 LANTELME F TURQ P
ELECTRICAL MOBILITIES OF LI(6) AND LI(7) IONS IN MOLTEN NITRATES: RELATION BETWEEN THE ISOTOPE EFFECT AND THE IONIC INTERACTIONS
J. INORG. NUCL. CHEM., 33. 4025. 1971
- 410 72 083 LAMIN H EIDENS J ARNBURSTER P GRUETER JW HUEBENTHAL K
SYSTEMICH K
JUELICH ON-LINE SEPARATOR 'JOSEF'
PP 270-80 OF BMBW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS. 1970

- 410 72 084 LE MANACH J
GAS SAMPLING DEVICE FOR ULTRACENTRIFUGES
FRENCH PATENT 2,036,051. DECEMBER 14, 1970. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. FILED MARCH 3, 1969 IN FRENCH
- 410 72 085 LEBRUN C MEZIM M
URANIUM ISOTOPIC SEPARATION STUDIES IN FRANCE
NP-TR-1943. TRANSLATED FOR AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS, FROM ENERG. NUCL. (PARIS), 14. NO. 1, 5-16, 1972. 20P. NTIS
- 410 72 086 LEDUC C
ENRICHMENT OF URANIUM
KERNTECH. ATOMPRAX., 13. NO. 11, 496, 1971
- 410 72 087 LEONARD R PONTING RL SHELIN RK
SEPARATION OF MICROGRAM QUANTITIES OF LOW ISOTOPIC ABUNDANCE UTILIZING AN ISOTOPE SEPARATOR
NUCL. INSTRUM. METHODS, 100. 459, 1972
- 410 72 088 LERNER J
PREPARATION OF NUCLEAR RESEARCH MATERIALS WITH A LABORATORY TYPE ISOTOPE SEPARATOR
NUCL. INSTRUM. METHODS, 102. 373, 1972
- 410 72 089 LINDERSTROM-LAN CU
STUDIES ON TRANSPORT OF MASS AND ENERGY IN THE VORTEX TUBE, THE SIGNIFICANCE OF THE SECONDARY FLOW
AND ITS INTERACTION WITH THE TANGENTIAL VELOCITY DISTRIBUTION
RISO-248. THESIS. COPENHAGEN UNIV., DENMARK, SEPT. 1971. 117P. NTIS. DANISH ATOMIC ENERGY
COMMISSION, RISØ, RESEARCH ESTABLISHMENT
- 410 72 090 LOVE LO BANIC GM (2) BELL WA (2) DAGENHART WK (2) VEACH AM (2)
1. LARGE SCALE AND RADIOACTIVE SEPARATIONS AT THE OAK RIDGE NATIONAL LABORATORY. 2. EQUIPMENT
DEVELOPMENTS WHICH REDUCE SECOND-PASS NEEDS
PP 176-96 AND PP 213-23 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON
ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 091 LYUBIMOV VN
ELECTROMIGRATIONAL SEPARATION OF ISOTOPES AND DETERMINATION OF IONIC MOBILITY IN FUSED SALTS
USP. KHIM., 41. 410, 1972 IN RUSSIAN
- 410 72 092 MACLEAN NA
ZERO DEFLECTION ISOTOPE SEPARATOR FOR THE STUDY OF U(235) FISSION PRODUCTS
TRG-REPORT-2218. STRATHCLYDE UNIV., GLASGOW, SCOTLAND, 1972. 31P. NTIS
- 410 72 093 MAERTENSSON MM
ENRICHED URANIUM
BULL. INFORM. A.T.E.N. (ASS. TECH. ENERG. NUCL.), NO. 85. 11, 1970 IN FRENCH. CONF-700903. FROM 4TH
FORATON CONGRESS ON INDUSTRIAL ASPECTS OF THE NUCLEAR FUEL CYCLE IN EUROPE. STOCKHOLM, SWEDEN.
SEPT. 21, 1970
- 410 72 094 MILLER L
LIQUID DIFFUSION CASCADES
RFR. BUNSENGES. PHYS. CHEM., 75. NO. 3-4, 206, 1971
- 410 72 095 MORAND JP
STUDY OF THE PHOTOCHEMICAL OXIDATION OF MERCURY. APPLICATION TO THE SEPARATION OF THE ISOTOPES OF
MERCURY
CEA-R-4126. THESIS. PARIS UNIV., ORSAY, FRANCE, 1971. 77P IN FRENCH. NTIS. COMMISSARIAT A L'ENERGIE
ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES
- 410 72 096 NAUMANN RA HUEBEL H LOESER F SPEJEWSKI E
ON-LINE ISOTOPE SEPARATOR EXPERIMENT AT THE PRINCETON PENNSYLVANIA ACCELERATOR
PP 49-56 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 097 NEWLAND FA
SEPARATION OF ISOTOPES, ESPECIALLY URANIUM ISOTOPES, BY THE SEPARATION NOZZLE PROCESS. A
BIBLIOGRAPHY
AAEC/L18/B18-328. AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS, FEB.
1972. 24P. 126 REFERENCES. NTIS
- 410 72 098 NIELSEN KO
APPLICATIONS OF ELECTROMAGNETIC ISOTOPE SEPARATORS TO NUCLEAR PHYSICS
PP 506-19 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS.
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 410 72 099 NIKOLAEV BI KOLOLOITSOV NA SULABERITSZE GA TEVZADZE GA CHUZHINGOV VA
MERCURY MASS DIFFUSION COLUMNS FOR ISOTOPE SEPARATION
MLN-1879(1R). TRANSLATED FOR MOUND LAB., MIAMISBURG, OHIO, FROM ISOTOPENPRAXIS, 6. NO. 11, 417,
1970. 13P
- 410 72 100 NO AUTHOR
URANIUM ENRICHMENT ACTIVITIES IN ITALY
COM. NAZ. ENERG. NUCL., NOTIZ., 16. NO. 10, 60, 1970 IN ITALIAN. CONF-700903-9. FROM 4TH FORATON
CONGRESS ON INDUSTRIAL ASPECTS OF THE NUCLEAR FUEL CYCLE IN EUROPE. STOCKHOLM, SWEDEN, SEPT. 21,
1970
- 410 72 101 NO AUTHOR
SEPARATION ISOTOPIQUE DE L'URANIUM ET SON ECONOMIE (URANIUM ISOTOPE SEPARATION AND THE CORRESPONDING
ECONOMICS). MEETING HELD IN PARIS, FRANCE, NOVEMBER 27, 1970
BOOK, SOCIETE DE CHIMIE INDUSTRIELLE, RUEIL-MALMAISON, FRANCE, 1971. 96P. 6 PAPERS. CONF-701133
- 410 72 102 NO AUTHOR
STABLE GASEOUS ISOTOPE SEPARATION AND PURIFICATION
MLN-1816. JAN.-MARCH 1971, JULY 1971, 44P. MLN-1828. APR.-JUNE 1971, OCT. 1971, 44P. MLN-1861,
JULY-SEPT. 1971, OCT. 1971, 24P. MLN-1886, OCT.-DEC. 1971, FEB. 1972, 24P. MLN-1904. JAN.-MARCH
1972, JULY 1972, 35P. MLN-1943. APR.-JUNE 1972, AUG. 1972, 29P. MOUND LAB., MIAMISBURG, OHIO. NTIS
- 410 72 103 NO AUTHOR
AEC GASEOUS DIFFUSION PLANT OPERATIONS
ORO-684. ATOMIC ENERGY COMMISSION, WASHINGTON, D.C., JAN. 1972. 53P

- 410 72 104 NO AUTHOR
DATA ON NEW GASEOUS DIFFUSION PLANTS
ORO-685, OAK RIDGE OPERATIONS OFFICE, AEC, TENN., APRIL 1972. 68P. TIC
- 410 72 105 NO AUTHOR
ISOTOPE ENRICHMENT METHOD AND APPARATUS
BRITISH PATENT 1,237,474, JUNE 30, 1971. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. PRIORITY DATE AUGUST 1, 1968, FRANCE
- 410 72 106 NO AUTHOR
ULTRACENTRIFUGE ROTOR FOR ISOTOPIE SEPARATION
BRITISH PATENT 1,259,255, JANUARY 5, 1972. TO SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE. PRIORITY DATE SEPTEMBER 5, 1969, FRANCE
- 410 72 107 NO AUTHOR
HIGH SPEED CENTRIFUGAL SEPARATOR
FRENCH PATENT 2,001,976, OCTOBER 3, 1969, AND BRITISH PATENT 1,259,874, JANUARY 12, 1972. TO MITSUBISHI JUKOGYO KABUSHIKI KAISHA. PRIORITY DATE FEBRUARY 15, 1968, JAPAN
- 410 72 108 NO AUTHOR
CHEMISTRY OF THE ELECTROMAGNETICALLY SEPARATED STABLE ISOTOPES
ISOTOP. RADIAT. TECHNOL., 9, NO. 2, 133-49, 1971-1972
- 410 72 109 ORON M AMIEL S
CONDITIONING AND PERFORMANCE OF AN ON-LINE ISOTOPE SEPARATOR ASSEMBLY FOR FISSION YIELD MEASUREMENTS OF VERY SHORT LIVED NUCLIDES
PP 87-98 OF BMBW-FBK-70-28, PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 110 PANCHENKOV GM BASOV YG
ISOTOPE SEPARATION FACTOR IN EQUILIBRIUM PROCESSES
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 862, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1529, 1971
- 410 72 111 PARTSAKHASHVILI GL
GENERALIZED SYSTEM OF EQUATIONS DESCRIBING SEPARATION OF MULTICOMPONENT ISOTOPIE MIXTURES
SOBSHCH. AKAD. NAUK GRUZ. SSR, 63, NO. 1, 53, 1971 IN RUSSIAN
- 410 72 112 PATZELT P
HYDROXIDES OF TITANIUM, ZIRCONIUM, CERIUM(IV), AND THORIUM FOR THE ON-LINE PRODUCTION OF NOBLE GASES AT THE ISOLE FACILITY
PP 158-67 OF BMBW-FBK-70-28, PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 113 PECQUEUR M
FRENCH PROGRAM IN THE FIELD OF U ISOTOPE ENRICHMENT
BULL. INFORM. A.T.E.N. (ASS. TECH. ENERG. NUCL.), NO. 90, 5-9, 1971 IN FRENCH, CONF-710344-1, FROM 4TH ANNUAL CONFERENCE OF THE JAPAN ATOMIC INDUSTRIAL FORUM, TOKYO, JAPAN, MARCH 15, 1971
- 410 72 114 PERELLO M VIGON MA
ISOTOPE SEPARATION BY CENTRIFUGATION, ROTATING PLASMA
JEN-244, JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN, DIVISION DE FISICA, 1972. 45P IN SPANISH, NTIS
- 410 72 115 PHILLIPS JT LINDERSTROM-LAN GU BIGELEISEN J
LIQUID-VAPOR ARGON ISOTOPE FRACTIONATION FROM THE TRIPLE POINT TO THE CRITICAL POINT. MEAN LAPLACIAN IN LIQUID ARGON
UR-3999-12, ROCHESTER UNIV., N.Y., DEPT. OF CHEMISTRY, 1971. 43P
- 410 72 116 POUBEAU P
ROTOR FOR AN ISOTOPE ULTRACENTRIFUGE
FRENCH PATENT 2,058,496, MAY 3, 1971. TO NORD-AVIATION SOCIETE NATIONALE DE CONSTRUCTIONS AERONAUTIQUES, FILED SEPTEMBER 5, 1969 IN FRENCH
- 410 72 117 PTASHNIK VB
RELATIVE DIFFERENCE OF MOBILITIES OF ISOTOPIE LI IONS AND TRANSPORT NUMBERS IN LIF
FIZ. TVERD. TELA, 13, 3212, 1971 IN RUSSIAN
- 410 72 118 RICHTER
1. ON MODELING APPARATUS FOR SEPARATING SUBSTANCES BY MEANS OF ISOTOPES. 2. USE OF ISOTOPE TECHNIQUE IN STUDYING PROCESSES OF MASS EXCHANGE AND PROBLEMS OF REACTION TECHNIQUE
CHEM. TECH. (LEIPZIG), 23, 719, 1971 AND 24, 270, 1972
- 410 72 119 RODRIGUE AR URGELL MM IGLESIAS J
SEPARACION DE LOS ISOTOPOS ESTABLES DEL NITROGENO POR CAMBIO IONICO. 5. SISTEMA BINARIO DIMETILAMINA Y SEOBUTILAMINA
AN. QUIM., 67, 507, 1971
- 410 72 120 ROZEN AM
SUCCESS OF THE ISOTOPE SEPARATION THEORY AND ITS USE IN NONISOTOPIC TECHNOLOGY
ISOTOPENPRAXIS, 6, 463, 1970 IN RUSSIAN
- 410 72 121 RUDSTAM G
SURVEY OF RESULTS OBTAINED WITH ISOTOPE SEPARATOR ON-LINE ARRANGEMENTS
PP 567-75 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 410 72 122 SABAU C CALUSARU A
LITERATURE SURVEY ON THE SEPARATION OF ISOTOPES BY ION-EXCHANGE (1922 - 1970)
IFA-RC-6, INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1970. 40P. 263 REFERENCES, NTIS
- 410 72 123 SAPIRIE SR
1. URANIUM ENRICHMENT IN THE UNITED STATES. 2. URANIUM ENRICHMENT
AT. JAPAN, 15, NO. 3, 15-19 AND 19-21, 1971, CONF-710344-4 AND -2, FROM 4TH ANNUAL CONFERENCE OF THE JAPAN ATOMIC INDUSTRIAL FORUM, TOKYO, JAPAN, MARCH 15, 1971
- 410 72 124 SARACENO AJ TRIVISONNO CF
URANIUM ISOTOPE SEPARATION BY CHEMICAL EXCHANGE REACTIONS BETWEEN UF6 AND DERIVATIVES OF 4-UF6-NITROGEN OXIDE COMPLEXES
GAT-674, GOODYEAR ATOMIC CORP., PIKETON, OHIO, FEB. 1972. 11P. NTIS

- 410 72 125 SCHIEL R
BIBLIOGRAPHY ON URANIUM ISOTOPE SEPARATION
EUR-4796. EUROPEAN ATOMIC ENERGY COMMUNITY, LUXEMBOURG, CENTER FOR INFORMATION AND DOCUMENTATION,
NOV. 1972. 254P. NTIS
- 410 72 126 SCHMELZER C
INJECTOR SYSTEM AND FIRST RF ACCELERATOR OF THE UNILAC
PP 596-8 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 127 SCHROEDER HG HAMRIN CE
SEPARATION OF BORON ISOTOPES BY DIRECT MODE, THERMAL PARAMETRIC PUMPING
ORD-3913-1. THESIS. SUBMITTED BY HANS G. SCHROEDER, KENTUCKY UNIV., LEXINGTON, DEPT. OF CHEMICAL
ENGINEERING. 67P. NTIS. PROGRESS REPORT, JUNE 1969 - JUNE 1970
- 410 72 128 SCHUBERT K
DEPENDENCE OF THE COST OF SEPARATION IN A NOZZLE SEPARATION PLANT FOR U(235) ENRICHMENT ON THE LOAD
CONDITIONS
KFK-1439. THESIS. SUBMITTED TO TECHNISCHE HOCHSCHULE, KARLSRUHE, GERMANY, AUG. 1971. 40P IN GERMAN.
KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FÜR KERNVERFAHRENSTECHNIK. TRANSLATED
FOR AUSTRALIAN ATOMIC ENERGY COMMISSION AS LIB/TRANS-408. 21P. NTIS
- 410 72 129 SCHUETTE R
COST OF SEPARATIVE WORK IN U(235) ENRICHMENT IN INDUSTRIAL SEPARATION NOZZLE CASCADES
KFK-1431. KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FÜR KERNVERFAHRENSTECHNIK, JULY
1971. 24P IN GERMAN. NTIS. TRANSLATED FOR AUSTRALIAN ATOMIC ENERGY COMMISSION AS LIB/TRANS-411.
15P. NTIS
- 410 72 130 SHIMOKAWA J NISHIO G KOBAYASHI F
URANIUM ISOTOPE SEPARATION BY CHEMICAL EXCHANGE
PP 397-402 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 410 72 131 SINHA OP
ISOTOPE SEPARATION RATE IN HAEFFNER EFFECT
APPL. PHYS. LETT. 21. 14. 1972
- 410 72 132 SMITH HJ RAUTENBACH WL
COLLECTION OF NICKEL IN DIFFERENT METAL BACKING
PP 197-202 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 133 SOUBBARAMAYER
1. THERMAL COUNTERCURRENTS IN CENTRIFUGES. 2. APPROXIMATE SOLUTIONS TO THERMAL COUNTERCURRENT
CENTRIFUGE PROBLEMS
CEA-R-4185 AND 4186. JUNE 1971 AND JULY 1971. 15P AND 23P. IN FRENCH. COMMISSARIAT A L'ENERGIE
ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES. NTIS
- 410 72 134 SOUM JC
URANIUM ENRICHMENT BATTLE
SCI. AVENIR. NO. 290. 313-17. 342. 1971 IN FRENCH
- 410 72 135 STANGEBY PC ALLEN JE
PROPOSED NEW METHOD FOR SEPARATING ISOTOPES
NATURE. 233. 472. 1971
- 410 72 136 STASCHEWSKI D
EXTENSIVE ENRICHMENT OF STABLE OXYGEN ISOTOPES BY COUNTERCURRENT DISTILLATION OF HEAVY WATER
CHEM.-ING.-TECH. 43. 810. 1971 IN GERMAN
- 410 72 137 STIEHL G MUEHLE K WINKLER R (3)
OVER THE ENRICHMENT OF THE STABLE ISOTOPE S(34) IN THE SYSTEM HYDROGEN SULFITE/SULFUR DIOXIDE. 1.
THE SYSTEM HYDROGEN BISULFITE/SULFUR DIOXIDE. 3. THE EFFECT OF COLUMN PACKING ON EFFICIENCY OF
SEPARATION
MLM-1910(7R) AND 1921(7R). TRANSLATED FOR MOUND LAB., MIAMISBURG, OHIO. FROM ISOTOPENPRAKIS. 5.
326-8 AND 437-8. 1969. 9P AND 7P. NTIS
- 410 72 138 SUNDELL S
ION SOURCE AND BEAM HANDLING SYSTEM USED AT ISOLDE
PP 473-80 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 139 SZYDLOWSKI J ZIELINSKI M
TRITIUM ISOTOPE FRACTIONATION IN THE SYSTEM CONSISTING OF GASEOUS HYDROGEN CHLORIDE AND SOLVATES OF
PYRIDINE HYDROCHLORIDE WITH HYDROGEN CHLORIDE
RADIOCHEM. RADIOANAL. LETT. 8. NO. 5. 291. 1971
- 410 72 140 TAKASHIMA Y
VARIOUS PROBLEMS IN INDUSTRIAL DEVELOPMENT OF CENTRIFUGAL SEPARATION METHOD
KARYOKU MATSUDEN. 21. NO. 8. 938. 1970 IN JAPANESE
- 410 72 141 TALBERT WL MCCONNELL JR (2)
1. SURVEY OF EXISTING ON-LINE SEPARATORS. 2. EXPERIMENTAL TECHNIQUES IN USE AT THE TRISTAN ON-LINE
ISOTOPE SEPARATOR SYSTEM
PP 14-43 AND 78-86 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC
ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 142 TARANTIN NI KABACHENKO AP KUZNETSOV IV DYACHININ YA IVANDY NS
MODIFICATION OF THE ELECTROMAGNETIC MASS SEPARATOR ON-LINE WITH A HEAVY ION CYCLOTRON
PP 59-67 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970
- 410 72 143 TAYLOR WL WEISSMAN S
THERMAL DIFFUSION FACTORS FOR THE HE(4)-HE(3) SYSTEM
J. CHEM. PHYS. 55. 4000. 1971
- 410 72 144 TEN BRINK BO DULFER GH VERHEIJL M
ISOTOPE SEPARATOR SEMI-ON-LINE WITH AN AVE CYCLOTRON
PP 104-7 OF BMW-FBK-70-28. PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970

- 410 72 145 THEYSE FH
ULTRACENTRIFUGE SEPARATION OF HEAVY ISOTOPES
J. MECH. ENG. SCI., 13, NO. 3, 168, 1971
- 410 72 146 TORTSCHANOFF T VIEHBOECK FP (1,3)
1. PREPARATION OF THIN SOURCES BY RETARDATION TECHNIQUES. 2. ELECTROSTATIC BEAM DEFLECTION AND
RETARDATION COLLECTOR SYSTEM FOR A MEDIUM SIZE ELECTROMAGNETIC ISOTOPE SEPARATOR. 3. PREPARATION
OF THIN SOURCES BY MEANS OF ELECTROSTATICALLY DEFLECTED AND DECELERATED IONS INSIDE AN ISOTOPE
SEPARATOR
1 AND 2, PP 482-504 AND 525-32 OF BMW-FBK-70-28, PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON
ELECTROMAGNETIC ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, 1970. 3. J. MASS
SPECTRY, ION PHYS., 6, 427, 1971. 22 REFERENCES
- 410 72 147 TROSHIN YP
MEASURING RELATIVE MOBILITY DISTINCTIONS AMONG ISOTOPIC IONS IN ELECTROLYTE SOLUTIONS
Zh. Fiz. Khim., 46, 74, 1972 IN RUSSIAN
- 410 72 148 UTIROV BU PANCHENKOV GM KOROVKIN VK BASOV YG
SEPARATION OF NITROGEN AND HYDROGEN ISOTOPES DURING PHOTODISSOCIATION OF AMMONIA
AT. ENERG. (USSR), 32, NO. 2, 169, 1972 IN RUSSIAN
- 410 72 149 VASILENKO AT MAKHUNKA- MATE-Z NAD J SOROKO VM
STANCHEVA NS STANCHEV SM UTKIN VA FENYES T
COLLECTOR SYSTEM OF AN ISOTOPE SEPARATOR FOR INVESTIGATING SHORT LIVED ISOTOPES
JINR-P6-5888, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, JULY 1971.
19P IN RUSSIAN, NTIS
- 410 72 150 VERENINOV IA MUSKHELISHVILI GN PURADASHVILI DK RAKITSKII YV
MATHEMATICAL SIMULATION OF THE SEPARATION PROCESS OF STABLE ISOTOPES IN PACKED COLUMNS
KERNENERGIE, 14, NO. 6, 190, 1971 IN RUSSIAN
- 410 72 151 WAGENER K FREYER HD BILAL BA
COUNTERCURRENT ELECTROPHORESIS
SEPAR. SCI., 6, NO. 4, 483, 1971
- 410 72 152 WICK G
NEW VISTAS FOR ISOTOPE SEPARATION
NEW SCI. SCI. J., 51, NO. 770, 692, 1971
- 410 72 153 WINSBERG L
DETERMINATION OF TRANSFER TIMES IN AN ON-LINE ISOTOPE SEPARATOR
NUCL. INSTRUM. METHODS, 95, 19, 1971
- 410 72 154 WOLF GK FRITSCH T
USE OF CHEMICAL REACTIONS OF RECOIL ATOMS FOR ON-LINE SEPARATIONS
PP 168-74 OF BMW-FBK-70-28, PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 410 72 155 WOLLNIK H
MULTIFIELD PARTICLE SEPARATORS
PP 282-302 OF BMW-FBK-70-28, PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 410 72 156 WOOLF LA
RELATIONSHIPS BETWEEN DIFFUSION COEFFICIENTS IN A THREE COMPONENT SYSTEM IN WHICH TWO COMPONENTS ARE
ISOTOPICALLY RELATED
J. CHEM. PHYS., 56, 2489, 1972
- 410 72 157 ZIEGER K
1. ELEMENTARY DETERMINATION OF DISTRIBUTION IN SEPARATION TUBES. 1. 2. DETERMINATION OF ASYMPTOTIC
DISTRIBUTION IN SEPARATION TUBES. II. 3 AND 4. CONTRIBUTION TO THE ELEMENTARY INTEGRATION OF
NONLINEAR TRANSPORT EQUATIONS IN ISOTOPE SEPARATION. II AND III.
ISOTOPENPRAXIS, 7, NO. 3, 95, 1971, 7, NO. 4, 145, 1971, 7, NO. 8, 344, 1971, AND 7, NO. 9, 373,
1971. IN GERMAN
- 415 72 001 ABELES FB RUTH JM
MECHANISMS OF HORMONE ACTION. USE OF DEUTERATED ETHYLENE TO MEASURE ISOTOPIC EXCHANGE WITH PLANT
MATERIAL AND BIOLOGICAL EFFECTS OF DEUTERATED ETHYLENE
PLANT PHYSIOL., 49, 669, 1972
- 415 72 002 ALLEN AL
CHEMICAL DISTRIBUTION OF FERTILIZER NITROGEN REMAINING IN THE SOIL AFTER CROPPING AS REVEALED BY
NITROGEN-15 STUDIES
THESIS, UNIV. OF ILLINOIS, URBANA-CHAMPAIGN, 1972. UNIV. MICROFILMS ORDER NO. 72-12,061. DISS. ABS.,
328, 10, 5575, 1972
- 415 72 003 ANSEL G CHERKI C CROSET M
USE OF THE NUCLEAR MICROANALYSIS OF LIGHT ELEMENTS IN ELECTROCHEMISTRY APPLICATIONS TO ANODIC
OXIDATION PROCESSES BY DIRECT DETERMINATION OF O(16) AND BY O(18) TRACING
COLLECT. CZECH. CHEM. COMMUN., 36, 883, 1971
- 415 72 004 ARITA K SHINOZAKI A YOSHIKAWA Y
VINYL INTERCHANGE REACTION CATALYZED BY HG(II) SALTS (INVESTIGATION OF REACTION MECHANISM USING
ACETIC ACID LABELED WITH O(18))
MASS SPECTRY, JAPAN, 20, 85, 1972 IN JAPANESE
- 415 72 005 ATKINS PR
1. STABLE ISOTOPES OF CARBON AS INDICATORS OF AIR POLLUTION LEVELS. 2. C(12)/C(13) RATIO AS AN
INDICATOR OF AIR POLLUTION
1. PP 545-9 OF PROCEEDINGS OF THE 2ND INTERNATIONAL CLEAN AIR CONGRESS, ENGLUND, H. M., (ED.),
ACADEMIC PRESS INC., NEW YORK, 1971. FROM CONFERENCE, WASHINGTON, D.C., DEC. 6, 1970. CONF-701229.
2. ISOTOP. RADIAT. TECHNOL., 8, 381, 1971
- 415 72 006 BARROETA N MACCOLL A
PYROLYSIS OF THIO AND ISOTHIOCYANATES. 2. ETHYL THIOTHIOCYANATE
JACS, 93, 5787, 1971
- 415 72 007 BEYER EM
MECHANISM OF ETHYLENE ACTION. BIOLOGICAL ACTIVITY OF DEUTERATED ETHYLENE AND EVIDENCE AGAINST
ISOTOPIC EXCHANGE AND CIS-TRANS ISOMERIZATION
PLANT PHYSIOL., 49, 672, 1972

- 415 72 008 BJORN RA HALLBERG L WALKER RB
FOOD IRON ABSORPTION IN MAN. 1. ISOTOPIC EXCHANGE BETWEEN FOOD IRON AND INORGANIC IRON SALT ADDED TO
FOOD: STUDIES ON MAIZE, WHEAT, AND EGGS
AMER. J. CLIN. NUTR., 25, 317, 1972
- 415 72 009 BUCHHOLZ JR ADAMS WH CHRISTENSON CW JOHNSON GL KOLLMAN VM
FOWLER EB
APPARATUS FOR THE MASS PRODUCTION OF CHLORELLA PYRENOIDOSA WITH 94 PERCENT C(13)O2 AND 6 PERCENT
C(12)O2 AS A CARBON SOURCE
LA-4902. LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO. APRIL 1972. SP. NTIS
- 415 72 010 CROSET M PETREANU E SAMUEL D AMSEL G NADAI JP
O(18) STUDY OF THE SOURCE OF OXYGEN IN THE ANODIC OXIDATION OF SILICON AND TANTALUM IN SOME ORGANIC
SOLVENTS
J. ELECTROCHEM. SOC., 118, 717, 1971
- 415 72 011 CROSS FA WILLIS JN BAPTIST JP
DISTRIBUTION OF RADIOACTIVE AND STABLE ZINC IN AN EXPERIMENTAL MARINE ECOSYSTEM
J. FISH. RES. BOARD CAN., 28, 1783, 1971
- 415 72 012 DANNEBERG OH ROTH K
PREPARATION OF DOUBLY LABELED (C(14),N(15)) WHEAT STRAW FOR THE STUDY OF ORGANIC FERTILIZER
SGAE-LA-10/1972. OESTERREICHISCHE STUDIENGESSELLSCHAFT FUER ATOMENERGIE, SEIBERSDORF, INSTITUT FUER
LANDWIRTSCHAFT, 1971. 18P IN GERMAN. NTIS
- 415 72 013 DELWAIDE PA DELWAIDE PJ PENDERG CA
ISOTOPE STUDIES OF BODY COMPOSITION IN NEUROMUSCULAR DISEASES
J. NEUROL. SCI., 15, 339, 1972
- 415 72 014 DINH NG RAAL A STENHAGE E
SPECIFIC PROTIIUM LABELING OF PERDEUTERIATED COMPOUNDS
ARK. KEM., 1, NO. 3, 117, 1971
- 415 72 015 DOTY MS
IMPROVEMENT AND APPLICATION OF BENTHIC ALGAL ISOTOPE PRODUCTIVITY MEASURING METHODS
UH-235-P-4-5. HAWAII UNIV., HONOLULU, DEPT. OF BOTANY, JUNE 1971. 94P. NTIS
- 415 72 016 DYER NC BRILL AB GOSS DA (1) FAXELIUS G (2) STAHLMAN M (2)
1. MEASUREMENT OF IRON UTILIZATION IN PREGNANT WOMEN USING THE STABLE TRACER FE(58). 2. BLOOD VOLUME
AND HEMORRHAGE TIMING IN NEWBORN INFANTS WITH RESPIRATORY DISTRESS USING THE STABLE TRACER CR(50)
PP V.39-45 AND V.46-52 OF CONF-710402(VOL.1). VANDERBILT UNIV., NASHVILLE, TENN., SCHOOL OF
MEDICINE, AUG. 1971. FROM MEETING ON NEUTRON SOURCES AND APPLICATIONS, AUGUSTA, GA., APRIL 18,
1971
- 415 72 017 DYER NC BRILL AR
USE OF THE STABLE TRACERS FE(58) AND CR(50) FOR THE STUDY OF IRON UTILIZATION IN PREGNANT WOMEN
1. DRD-2401-52. 1971. 9P. CONF-720425-1. FROM SYMPOSIUM ON NUCLEAR ACTIVATION TECHNIQUES IN LIFE
SCIENCES. BLED, YUGOSLAVIA, APRIL 10, 1972. 2. TID-25922. 1971. 11P. SM-157/62. VANDERBILT UNIV.,
NASHVILLE, TENN.
- 415 72 018 EMMERICH R MROWEC S
USE OF O(18) ISOTOPE IN STUDYING MECHANISM OF HIGH TEMPERATURE OXIDATION OF IRON-CHROMIUM ALLOYS
BULL. ACAD. POL. SCI., SER. SCI. CHIM., 19, 569, 1971
- 415 72 019 ESSINGTON EH
EVALUATION AND SELECTION OF TRACERS FOR FIELD MEASUREMENT OF COEFFICIENT OF DISPERSION

NVO-1229-176. TELEDYNE ISOTOPES, LAS VEGAS, NEV., OCT. 1971. 43P. NTIS
- 415 72 020 FERRONSKII VI
ISOTOPIC METHODS FOR THE ACCOMPLISHMENT OF THE RESEARCH PROGRAMS OF THE INTERNATIONAL HYDROLOGICAL
DECENNIIUM
ISOTOPENPRAXIS, 6, 447, 1970 IN GERMAN
- 415 72 021 FORSTER WD
RADIOACTIVE AND STABLE NUCLIDES IN THE COLUMBIA RIVER AND ADJACENT NORTHEAST PACIFIC OCEAN
RLO-1750-60. OREGON STATE UNIV., CORVALLIS, DEPT. OF OCEANOGRAPHY, 1969. 68P. NTIS
- 415 72 022 FRIED M
USE OF ISOTOPES IN AGRONOMIC SOIL SCIENCE
AGROCHIMICA, 15, NO. 2-3, 125-37, 1971. 62 REFERENCES
- 415 72 023 FRIEDMAN I SMITH GI
DEUTERIUM CONTENT OF SNOW AS AN INDEX TO WINTER CLIMATE IN SIERRA NEVADA AREA
SCIENCE, 176, 790, 1972
- 415 72 024 GARNETT JL HALPERN B KENYON RS
SIMPLE METHOD FOR SELECTIVE ISOTOPIC HYDROGEN LABELING OF AMINO ACIDS AND OF RCH2COOH AND RELATED
ALCOHOLS
J. CIEM. SOC., CIEM. COMMUN., P135, 1972
- 415 72 025 GENUNCHE A CRISTU D COSTEA T MANTESCU C
TRITATION OF ORGANIC COMPOUNDS BY IRRADIATION AND OTHER NONSYNTHETIC METHODS. 2. ISOTOPIC EXCHANGE
OF BENZENE, TOLUENE, MALEIC AND FUMARIC ETHYL ESTERS, ON DOPPED AND IRRADIATED LiF AND KCl
NP-19001. INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1971. 22P
- 415 72 026 GUIRAUD G BERLIER Y
STUDY BY MEANS OF N(15) OF THE INFLUENCE OF STRAW ON UTILIZATION BY PLANTS OF FERTILIZER NITROGEN
CEA-CONF-1985. COMMISSARIAT A L'ENERGIE ATOMIQUE, CADARACHE, FRANCE, CENTRE D'ETUDES NUCLEAIRES,
1969. 9P IN FRENCH. CONF-700327-2. NTIS. FROM 6TH INTERNATIONAL COLLOQUIUM ON PLANT ANALYSIS AND
FERTILIZER PROBLEMS, TEL AVIV, ISRAEL, MARCH 13, 1970
- 415 72 027 HECHT SM KOZARICH JW
CONVENIENT METHOD FOR PRODUCTION OF DIAZOMETHANE-D2
TETRAHEDRON LTRS. P1501, 1972
- 415 72 028 HUTZINGER O POTIIICR C SAFE S
SYNTHESIS OF CHLOROBIPHENYLS LABELED WITH DEUTERIUM AND CHLORINE-36
J. ASSOC. OFF. ANAL. CHEM., 55, 753, 1972

- 415 72 029 ISAEV IS DOMRACHE VN GORFINKE MI
ON DECOMPOSITION OF PHENOL-1-C(13) UNDER ELECTRONIC SHOCK
DOKL. AKAD. NAUK SSSR. 201. NO. 5. XXX. 1971 IN RUSSIAN
- 415 72 030 JOHNSON ER LADOV EN HOLTZSCHEITER EW (1)
1. METHOD OF INCREASING THE CONCENTRATION OF O(18) IN AN OXYGEN CONTAINING COMPOUND. 2. METHOD OF
PRODUCING COMPOUNDS ENRICHED IN O(18)
UNITED STATES PATENTS 3,622,480 AND 3,622,481. NOVEMBER 23. 1971. TO UNITED STATES ATOMIC ENERGY
COMMISSION. FILED NOVEMBER 4. 1969
- 415 72 031 JORDAN P MAY K
RADIOACTIVITY OF CERTAIN STABLE ISOTOPE ENRICHED SUBSTANCES
EXPERIENTIA. 27. 1146. 1971
- 415 72 032 JOVANOVIĆ M
ISOTOPES IN ANIMAL PRODUCTION
AGROCHIMICA. 15. NO. 2-3. 150-71. 1971. 52 REFERENCES
- 415 72 033 KAPLAN IR
BIOLOGICAL CYCLING OF ELEMENTS AND STABLE ISOTOPES IN MARINE ENVIRONMENTS
UCLA-34-P-134-6. PROGRESS REPORT. APRIL 1971 - MAY 1972. CALIFORNIA UNIV., LOS ANGELES. 1972. 208P.
NTIS
- 415 72 034 KIBBY CL
TRACER STUDIES OF ACID CATALYZED REACTIONS. 11. STERESELECTIVITY IN ALCOHOL DEHYDRATION OVER
HYDROXYAPATITE AND ALUMINA CATALYSTS
JACS. 94. 214. 1972
- 415 72 035 KLEIN PD ROTH LJ
PROCEEDINGS OF SEMINAR ON THE USE OF STABLE ISOTOPES IN CLINICAL PHARMACOLOGY. UNIV. OF CHICAGO.
NOVEMBER 10 - 11. 1971
CONF-711115. CHICAGO UNIV., ILL., AUG. 1972. 296P. NTIS
- 415 72 036 KURSANOV A
ISOTOPES IN PLANT PHYSIOLOGY AND BIOCHEMISTRY
AGROCHIMICA. 15. NO. 2-3. 101-24. 1971. 122 REFERENCES
- 415 72 037 LACROIX M
ISOTOPE EFFECTS IN BIOLOGY. 2. BIOLOGICAL OBSERVATIONS AND APPLICATIONS
BULL. SOC. ROY. SCI. LIEGE. 40. NO. 3-4. 179-98. 1971 IN FRENCH
- 415 72 038 LASSEN NA SEJRSEN P
MONOEXPONENTIAL EXTRAPOLATION OF TRACER CLEARANCE CURVES IN KINETIC ANALYSIS
CIRCULATION RES., 29. 76. 1971
- 415 72 039 LEETE E CHEDEKEL MR
TRITIUM OCCURRENCE IN DEUTERATED COMPOUNDS
NATURE. 236. 166. 1972
- 415 72 040 LOWMAN FG TING RY
STATE OF COBALT IN SEA WATER AND ITS UPTAKE BY MARINE ORGANISMS AND SEDIMENTS
CONF-720708-8. PUERTO RICO NUCLEAR CENTER, SAN JUAN, 1970. 24P. SM-158/23. NTIS. FROM SYMPOSIUM ON
THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT.
SEATTLE. WASH., JULY 10. 1972
- 415 72 041 MAKABE M YOKOYAMA S ITOH M TAKEYA G

STUDY ON THE DEUTERIATION OF AUTHENTIC HYDROCARBONS WITH D3PO4-BF3 COMPLEX
HOKKAIDO DAIGAKU KOGAKUBU KENKYU HOKOKU. NO. 62. 77-90. 1971 IN JAPANESE
- 415 72 042 MANOWITZ B SMITH ME STEINBERG M NEWMAN L TUCKER WD
ISOTOPE RATIO TRACER METHOD: APPLICATIONS IN ATMOSPHERIC SULFUR POLLUTION STUDIES
PP 993-9 OF PROCEEDINGS OF THE 2ND INTERNATIONAL CLEAN AIR CONGRESS. ENGLUND. H.M. (ED.). ACADEMIC
PRESS. NEW YORK. 1971. FROM CONFERENCE. WASHINGTON, D.C., DEC. 6. 1970. CONF-701229
- 415 72 043 MANSFELD A RUZICKA J HANSLIK E
CONTRIBUTION TO THE STUDY OF NATURAL RADIONUCLIDES IN WASTE AND SURFACE WATERS
RADIOISOTOPY. 11. 715. 1970 IN CZECH
- 415 72 044 MARSDEN NV ONEIL P
RELATIONSHIP BETWEEN FLUXES OF HYDROGEN AND OXYGEN ISOTOPES OF LABELED WATER AND WATER FLUX ACROSS A
HYDROPHOBIC MEMBRANE
ACTA PHYSIOL. SCAND., 84. NO 4. 32. 1972
- 415 72 045 MARTIN JM
USE OF NATURAL RADIOELEMENTS FOR SEDIMENT MEASUREMENT
HOUILLE BLANCHE. 25. 757. 1970 IN FRENCH. CONF-691135-2. FROM CONFERENCE ON THE APPLICATIONS OF
RADIOELEMENTS IN SEDIMENTOLOGY. PARIS. FRANCE. NOV. 18. 1969
- 415 72 046 MATUS L
COMPARATIVE MASS SPECTROMETRIC EVALUATION OF THE INCORPORATION OF STABLE NITROGEN INTO LEAF PROTEINS
OF BEZOSTAJA-1 WHEAT VARIETY FROM LABELED AMMONIUM NITRATE AND UREA
AGROCHIMICA. 14. 437. 1970
- 415 72 047 MOOK WG
APPLICATION OF NATURAL ISOTOPES IN GROUND WATER HYDROLOGY
GEOL. MIJNBOW. 51. 131. 1972
- 415 72 048 NEWMAN L SMITH M FORREST J TUCKER W MANOWITZ B
TRACER METHOD USING STABLE ISOTOPES OF SULFUR
PP 16-25 OF NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH. VOGT. J.R. (ED.). UNIV. OF MISSOURI.
COLUMBIA. 1971. FROM MEETING. COLUMBIA. MO., AUG. 23. 1971
- 415 72 049 NO AUTHOR
SYMPOSIUM SUR LES PROGRES DES TECHNIQUES NUCLEAIRES EN PHARMACODYNAMIE. SACLAY. FRANCE. MARS 11 -
13. 1970
BOOK. MASSON ET CIE. EDITIONS. PARIS. 1971. 297P. CONF-700343
- 415 72 050 NO AUTHOR
MOVEMENT OF CERTAIN ISOTOPES IN ANIMALS AND MAN
EUR-4741. ANNUAL REPORT. 1970. COMMISSARIAT A L'ENERGIE ATOMIQUE. FONTENAY-AUX-ROSES. FRANCE. CENTRE
D'ETUDES NUCLEAIRES. 1971. 36P IN FRENCH. NTIS

- 415 72 051 PENG S
STUDIES ON CHOLESTEROL METABOLISM BY APPLICATION OF HEAVY WATER AND MASS SPECTROMETRY AND BIOLOGICAL EFFECTS OF HEAVY WATER IN RATS
THESIS. NORTHWESTERN UNIV., EVANSTON, ILL., 1971. 212P. UNIV. MICROFILMS ORDER NO. 71-30,913
- 415 72 052 PETROVIC Z PASIC H
RADIOMETRY OF NATURAL RADIOACTIVE GASES OF RADON AND THORON AND THE INFLUENCE OF WEATHER PATTERNS ON THEIR CONCENTRATIONS IN THE ATMOSPHERE OVER SARAJEVO
ZB. METEOROL. HIDROL. RAD., 3, 59, 1969
- 415 72 053 PILLAY KKS HAGLE RE GLOMSKI CA
STUDIES OF ERYTHROCYTE KINETICS USING STABLE CHROMIUM AND NEUTRON ACTIVATION ANALYSIS
J. RADIOANAL. CHEM., 5, 265, 1970
- 415 72 054 REITER ER
ATMOSPHERIC TRANSPORT PROCESSES. 3. HYDRODYNAMIC TRACERS
TID-25731. AEC CRITICAL REVIEW SERIES. COLORADO STATE UNIV., FORT COLLINS, DEPT. OF ATMOSPHERIC SCIENCE, MAY 1972. 212P
- 415 72 055 ROBERTSON DE
INFLUENCE OF THE PHYSICOCHEMICAL FORMS OF RADIONUCLIDES AND STABLE TRACE ELEMENTS IN SEAWATER IN RELATION TO UPTAKE BY THE MARINE BIOSPHERE
BNWL-SA-4048. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., SEPT. 1971. 60P. NTIS
- 415 72 056 ROHRMANN CA
AVAILABILITY AND APPLICATIONS OF RADIOACTIVE AND STABLE BY-PRODUCTS FROM THE CHEMICAL PROCESSING OF SPENT NUCLEAR POWER FUELS
BNWL-SA-4108. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., 1971. 24P. CONF-711121-1. FROM 10TH JAPANESE CONFERENCE ON RADIOISOTOPES, TOKYO, JAPAN, NOV. 16, 1971
- 415 72 057 ROMNEY EM LUNT OR WALLACE A WIELAND PAI
FIXATION AND UTILIZATION OF NITROGEN IN DESERT VEGETATION
UCLA-12-854. CALIFORNIA UNIV., LOS ANGELES, LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY, 1970. 17P. NTIS
- 415 72 058 ROSENBLU C TRENNER NR WOLF DE
NONMETABOLITE RESIDUE. A LIMITATION TO TRACER METHOD
J. LABEL. COMPOUNDS, 7, 225, 1971
- 415 72 059 JAYAR GP
THE HETEROGENEOUS DECOMPOSITION OF HYDRAZINE. 2. THE USE OF N(15) AS A TRACER TO STUDY THE DECOMPOSITION OF HYDRAZINE ON THE SHELL 405 CATALYST
N71-33873. ROCKET PROPULSION ESTABLISHMENT, WESTCOTT, ENGLAND. 19P
- 415 72 060 SCHELL WR JINKFLA T (2) EAGLE R (2)
1. STUDIES OF THE NATURAL ALPHA EMITTING RADIOISOTOPES IN MARINE ORGANISMS. 2. NATURAL Pb(210) AND Po(210) IN A MARINE ENVIRONMENT
1. RLO-2225-T-14-3. ANNUAL PROGRESS REPORT, 1971-1972. WASHINGTON UNIV., SEATTLE, LAB. OF RADIATION ECOLOGY, MAY 1972. 23P. 2. RLO-2225-T-14-4. WASHINGTON, UNIV., SEATTLE, 1971. 29P. SM-158/47. CONF-720708-2. FROM SYMPOSIUM ON THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, JULY 10, 1972
- 415 72 061 SCHULZE E LANGE OL KOCH W
ECO-PHYSIOLOGICAL INVESTIGATIONS ON WILD AND CULTIVATED PLANTS IN NEGEV DESERT. 2. INFLUENCE OF CLIMATIC FACTORS ON CARBON DIOXIDE EXCHANGE AND TRANSPIRATION AT END OF DRY PERIOD
OECOLOGIA, 8, NO. 4, XXX, 1972 IN GERMAN
- 415 72 062 SEAMAN W
TRACER TECHNIQUES
PP 5513-81 OF TREATISE ON ANALYTICAL CHEMISTRY. VOL. 9, PT. I. KOLTHOFF, I.M. (ED.). JOHN WILEY AND SONS INC., NEW YORK, 1971. 165 REFERENCES
- 415 72 063 SEYSE RJ GORRON G
THERMAL DECOMPOSITION OF SODIUM, TITANYL, AND URANYL PEROXIDE BY THE DOUBLE-TAGGED ISOTOPE TRACER TECHNIQUE
J. INORG. NUCL. CHEM., 34, 477, 1972
- 415 72 064 SHENYAKIN MM
ISOTOPIC STUDY OF DUAL REACTIVITY AND TAUTOMERISM OF TRIAD A=B - AX SYSTEMS. 2. THE USE OF C(13) FOR THE DETERMINATION OF SUBSTITUTION MECHANISMS IN ALLYLIC AND METHYLENEAZOMETHINE SYSTEMS
TETRAHEDRON, 27, 2811, 1971
- 415 72 065 SHIELDS CE
APPLICATION OF ISOTOPIC METHODS FOR MEASURING POST-TRANSFUSION SURVIVAL OF STORED BLOOD IN DOGS
LAB. ANIMAL CARE, 22, NO. 2, 196, 1972
- 415 72 066 SKORYNA SC WALORON-EDWARD D
INTESTINAL ADSORPTION OF METAL IONS, TRACE ELEMENTS, AND RADIONUCLIDES
BOOK, PERGAMON PUBLISHING COMPANY, ELMSFORD, N.Y., 1971. 441P. 25 PAPERS
- 415 72 067 VOLK RJ JACKSON SA
PHOTORESPIRATORY PHENOMENA IN MAIZE. OXYGEN UPTAKE, ISOTOPE DISCRIMINATION, AND CARBON DIOXIDE EFFLUX
PLANT PHYSIOL., 49, NO. 2, 218, 1972
- 415 72 068 VORBURGE C
RENALE CLEARANCES MIT ISOTOPEN
BULL. SCHWEIZERISCHEN AKAD. MED. WISS., 27, 358, 1972
- 415 72 069 WESTLEY JW PRUESS DL PITCHER RG
INCORPORATION OF (1-C(13))-BUTYRATE INTO ANTIBIOTIC X-537A: C(13) NUCLEAR MAGNETIC RESONANCE STUDY
J. CHEM. SOC., CHEM. COMMUN., P161, 1972
- 415 72 070 YAMPOLSK YP MAXIMOV YV LAVROVSK KP
USE OF DEUTERATED COMPOUNDS FOR INVESTIGATION OF KINETICS AND MECHANISM OF HYDROCARBON THERMAL CONVERSION. MECHANISM OF ACETYLENE DECOMPOSITION IN ETHYLENE PYROLYSIS
KINET. KATAL., 13, 130, 1972 IN RUSSIAN
- 415 72 001 ANDERSON GE GENTRY JB SMITH MH
RELATIONSHIPS BETWEEN LEVELS OF RADIOCESIUM IN DOMINANT PLANTS AND ARTHROPODS IN A CONTAMINATED STRAWBERRY COMMUNITY
SRO-708-2. SAVANNAH RIVER ECOLOGY LAB., AIKEN, S.C., 1972. 17P. NTIS

- 416 72 002 BAKSHY S. GERSHBEI LL
METABOLISM OF S(35) LABELED THIOGLYCOLATE
ARCH. INT. PHARMACODYN., 197, 5, 1972
- 416 72 003 BEASLEY TM JOKELA TA EAGLE RJ
RADIONUCLIDES AND SELECTED TRACE ELEMENTS IN MARINE PROTEIN CONCENTRATES
HEALTH PHYS., 21, 815, 1971
- 416 72 004 BEERMANN B HELLSTRO K ROSEN A
ABSORPTION OF C(14)-METHYLSCOPOLAMINE FROM DIGESTIVE TRACT
EJCP, 4, NO. 1, 46, 1971
- 416 72 005 BELYAEVA OI FREIMAN GA BACHURIN AA
INTRAVITAL MEASUREMENT OF GAMMA RAY EMITTERS IN MARINE HYDROBIONTS
ECOLOGY USSR (ENGL. TRANS.), NO. 4, 358, 1970. TRANSLATED FROM EKOLOGIYA, NO. 4, 103, 1970
- 416 72 006 BERNHARD M
STUDIES ON THE RADIOACTIVE CONTAMINATION OF THE SEA
EUR-4865, ANNUAL REPORT, 1971. COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, LA SPEZIA, ITALY.
LABORATORIO PER LO STUDIO DELLA CONTAMINAZIONE RADIOATTIVA DEL MARE, AUG. 1972, 162P
- 416 72 007 BLOOM SG RAINES GE
MATHEMATICAL MODELS FOR PREDICTING THE TRANSPORT OF RADIONUCLIDES IN A MARINE ENVIRONMENT
BIOSCIENCE, 21, 691, 1971. FROM 21ST ANNUAL AIBS MEETING, BLOOMINGTON, IND., AUG. 26, 1970.
CONF-700843
- 416 72 008 BOOTH RS KAYE SV
PRELIMINARY SYSTEMS ANALYSIS MODEL OF RADIOACTIVITY TRANSFER TO MAN FROM DEPOSITION IN A TERRESTRIAL
ENVIRONMENT
ORNL-TM-3135, OAK RIDGE NATIONAL LAB., TENN., OCT. 1971, 21P
- 416 72 009 BOTTIN J FETIZON M
SYNTHESIS OF METHYLENE-24 CHOLESTEROL 28-C(14)
J. LABEL. COMPOUNDS, 7, 305, 1971
- 416 72 010 BOUVILLE A LEROY B GUEDALIA D DELOS Y FONTAN J
METHOD FOR MEASURING THE RADIOACTIVE DISEQUILIBRIUM BETWEEN RADON AND ITS SHORT LIVED DAUGHTERS IN
THE ATMOSPHERE
J. AEROSOL. SCI., 2, NO. 4, 381, 1971 IN FRENCH
- 416 72 011 BOWEN VT
GENERAL SUMMARY OF PROGRESS, 1970 - 1971
NYO-2174-129, WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS. 34P, NTIS
- 416 72 012 BRASHEAR HR ACREE EH CASE FN TURNER PA DUANE D
PROCESSING AND ANALYSIS OF RADIOISOTOPIC SAND TRACER (RIST) STUDY DATA
AD-732 608, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1970
- 416 72 013 BURSICS L TANACS B MARTON J
ACID CATALYSED TRITIUM EXCHANGE REACTIONS AS A METHOD FOR THE PRODUCTION OF LABELED ORGANIC
COMPOUNDS
RADIOISOTOPY, 12, 575, 1971
- 416 72 014 BUSCARLET LA
BIOLOGICAL HALF-LIFE OF RADIOELEMENTS IN INSECTS

ANN. ZOOL. ECOL. ANIM., 2, 451, 1970 IN FRENCH
- 416 72 015 CAPONE W CONTU M MASCIA C MELIS M
RESEARCH ON THE FIXATION OF P(32) AND CA(45) IN THE SKELETAL SYSTEM OF ANIMALS
MINERVA FISICNUCL., 15, NO. 2, 81, 1971 IN ITALIAN
- 416 72 016 CARLSSON L
METHODS FOR PRACTICAL DETERMINATION OF THE FLOW RATE OF GROUND WATER. 3. FIELD INVESTIGATIONS AT
GAARDSRYD
INIS-MF-271, CHALMERS TEKNISKA HOGSKOLA, GOTEBOG, SWEDEN. 225P IN SWEDISH. INIS
- 416 72 017 CORREIA RJ ARCIPRETE CP MITTA AEA
SYNTHESIS OF N-ACETYL-C(14)-4-AMINOANTIPYRINE
CNEA-293, COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES, ARGENTINA, 1971, 7P IN SPANISH
- 416 72 018 COURTOIS G
SEDIMENT DYNAMICS AND RADIOACTIVE TRACERS: STATUS OF WORK IN FRANCE
ORNL-TR-2492, TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM MOUILLE BLANCHE, 25, 617-28, 1970.
17P, NTIS
- 416 72 019 DE TROPAREVSKY MLP TROPAREVSKY A MITTA AEA
PREPARATION OF ISOCYANATES-C(14)
CNEA-311, COMISION NACIONAL DE ENERGIA ATOMICA, BUENOS AIRES, ARGENTINA, 1972, 8P IN SPANISH. NTIS
- 416 72 020 DEDEK W
RADIOISOTOPES IN PESTICIDE RESEARCH. IV. REVIEWS. GENERAL METHODS OF ANALYSIS. INSECTICIDES. V.
FUNGICIDES, HERBICIDES, OTHER PESTICIDES
ISOTOPENPRAxis, 6, 204-14, 1970 IN GERMAN. IV, 271 REFERENCES. V, 360 REFERENCES
- 416 72 021 DHOPESHWARKAR GA SUBRAMANIAN C MEAD JF
METABOLISM OF I-C(14) PALMITIC ACID IN THE DEVELOPING BRAIN: PERSISTENCE OF RADIOACTIVITY IN THE
CARBOXYL CARBON
UCLA-12-871, CALIFORNIA UNIV., LOS ANGELES, LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY, 1972.
18P, NTIS
- 416 72 022 DIMITROULAS C LEONDIADIS J
1. INVESTIGATION UNDER NATURAL CONDITIONS OF THE FEASIBILITY OF CR(51)-E.O.T.A. AS TRACER OF KARST
GROUND WATER. 2. USE OF RADIOISOTOPES IN TRACING KARST GROUND WATER IN GREECE. II. INVESTIGATION
ON THE POSSIBLE INTERCONNECTION BETWEEN SKOTINI SINKHOLE AND SPRINGS OF ARGOS AREA
DEMO-71/12 AND 14, APRIL 1971 AND JUNE 1971, 16P AND 20P, DEMOCRITUS NUCLEAR RESEARCH CENTER,
ATHENS, GREECE. NTIS
- 416 72 023 DUPUIS M
DISTRIBUTION AND EVOLUTION OF RADIOELEMENTS AFTER A NUCLEAR EXPLOSION
UCL-TRANS-10617-5, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., FROM BULL. INFORM.
SCI. TECH. (PARIS), NO. 149, 41-52, 1970, 22P, NTIS

- 416 72 024 DUURSMA EK RANCITELLI LA ROBERTSON DE
SPECIFIC ACTIVITY OF RADIONUCLIDES SORBED BY MARINE SEDIMENTS
BNWL-SA-4330. INTERNATIONAL LAB. OF MARINE RADIOACTIVITY. MONACO. AND BATTELLE PACIFIC NORTHWEST
LABS., RICHLAND, WASH., MAY 1972. 20P. CONF-720708-5. NTIS. FROM SYMPOSIUM ON THE INTERACTION OF
RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, JULY 10, 1972
- 416 72 025 ECKART LE LEONARD JH
METHOD FOR ASSESSING THE RELATIVE ENVIRONMENTAL IMPORTANCE OF INDIVIDUAL RADIONUCLIDES
TRANS. AMER. NUCL. SOC., 15. NO. 1, 81, 1972. FROM 18TH ANNUAL AMERICAN NUCLEAR SOCIETY CONFERENCE,
LAS VEGAS, NEV., JUNE 18, 1972. CONF-720607
- 416 72 026 ELWOOD JW
TRITIUM BEHAVIOR IN FISH FROM A CHRONICALLY CONTAMINATED LAKE
CONF-710501-45. OAK RIDGE NATIONAL LAB., TENN., 1971. 13P. FROM 3RD NATIONAL SYMPOSIUM ON
RADIOECOLOGY, OAK RIDGE, MAY 10, 1971
- 416 72 027 EMMRICH R. MAREK H KOCH H
EXPERIMENTAL AUTOGRAPHIC INVESTIGATIONS OF VARIOUS TISSUES BY MEANS OF TRITIUM LABELED
HYDROXYPROLINE AND PROLINE
LF-TR-64. TRANSLATED FOR LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, ALBUQUERQUE, NEW
MEXICO, FROM Z. GESAM. INN. MED. IHRE GRENZGEB., 25. NO. 19, 889, 1970. 20P. NTIS
- 416 72 028 ETTENHUBER E
ACUMULATION OF RADIONUCLIDES BY FISHES. REVIEW
ISOTOPENPRAKIS. 7. NO. 3. 75, 1971 IN GERMAN. 76 REFERENCES
- 416 72 029 FISCHER E
USE OF RADIONUCLIDES IN FOOD SCIENCE AND TECHNOLOGY
LEBENS- u. WISSEN. TECHNOL., 2. NO. 1. 1-8, 1969 IN GERMAN. 121 REFERENCES
- 416 72 030 FLEISHMAN DG KANEVSKII YP
COSMOGENIC Na(22) IN SURFACE WATERS OF DRY LAND
DOKL. AKA. NAUK SSSR, 198. 1397, 1971 IN RUSSIAN
- 416 72 031 FOLSON TR YOUNG DR HODGE VF GRISMORE R
VARIATIONS OF MN(54), CO(60), ZN(65), AG(110M), AND AG(108M) OBSERVED IN TUNAS
CONF-710501-33. SCRIPPS INST. OF OCEANOGRAPHY, LA JOLLA, CALIF., 1970. 26P. NTIS. FROM 3RD NATIONAL
SYMPOSIUM ON RADIOECOLOGY, OAK RIDGE, TENN., MAY 10, 1971
- 416 72 032 FORSTER WD
RADIONUCLIDE DISTRIBUTION IN COLUMBIA RIVER AND ADJACENT PACIFIC SHELF SEDIMENTS
RLD-1750-49. OREGON STATE UNIV., CORVALLIS. DEPT. OF OCEANOGRAPHY, 1970. 59P. NTIS
- 416 72 033 FORSYTH DJ
BIOACCUMULATION OF CL(36) RING LABELED DDT BY BLARINA BREVICAUDA AND SOREX CINEREUS IN AN OLD-FIELD
ECOSYSTEM
CDD-1358-11. THESIS. OHIO STATE UNIV., COLUMBUS, 1972. 42P. NTIS
- 416 72 034 GASPAR E
RADIOACTIVE TRACERS FOR HYDROLOGICAL WORKS
IFA-MR-36. INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1971. 24P. NTIS
- 416 72 035 GORHAM E HOFSTETTER RH
PENETRATION OF BOD PEATS AND LAKE SEDIMENTS BY TRITIUM FROM ATMOSPHERIC FALLOUT
ECOLOGY, 52. 898, 1971
- 416 72 036 HAESAENEN E
OCCURRENCE OF CS(137) IN THE BIOSPHERE EVALUATED WITH ENVIRONMENTAL AND METABOLIC STUDIES
TID-26175. HELSINKI UNIV., FINLAND. DEPT. OF RADIOCHEMISTRY, FEB. 1972. 40P. NTIS
- 416 72 037 HELD EE
ANCHITKA RADIOBIOLOGICAL PROGRAM
NVO-269-11. PROGRESS REPORT, JULY 1970 - APRIL 1971. WASHINGTON UNIV., SEATTLE. COLL. OF FISHERIES,
JULY 1971. 3AP. NTIS
- 416 72 038 HEMBREE W ZIMMERING PE WOLF AP
TRITIUM LABELING OF POLYPEPTIDE HORMONES: ADRENOCORTICOTROPIN (ACTH)
CDD-3105-2. COLUMBIA UNIV., NEW YORK. COLL. OF PHYSICIANS AND SURGEONS. AND BROOKHAVEN NATIONAL LAB
., UPTON, N.Y. 6P. CONF-710654-1. FROM ENDOCRINE SOCIETY MEETING, SAN FRANCISCO, CALIF., JUNE 1971
- 416 72 039 HONDA Y KOGA T MORISHIMA H SATO Y KITAWAKI S
UPTAKE AND LOSS OF RADIOACTIVE RUTHENIUM BY FRESHWATER ORGANISMS
RADIOISOTOPES (TOKYO), 20. NO. 8. 376, 1971 IN JAPANESE
- 416 72 040 KAURANEN P MIETTINEN JK
SPECIFIC ACTIVITY OF PB(210) IN THE ENVIRONMENT
CDD-3011-1. PAPER 48. MAY 1972. 11P. IN RADIOACTIVE FOODCHAINS IN THE SUBARCTIC ENVIRONMENT
- 416 72 041 KNUTSON G
STUDIES OF GROUND WATER FLOW IN VARIOUS AQUIFERS USING TRACERS
INIS-MF-272. LUND UNIV., SWEDEN. 20P. INIS
- 416 72 042 KOGA A KIKKAWA K
TRITIUM CONTENT OF BEPPU HOT SPRING WATER
OITA-KEN ONSEN CHOSA KENKYU-KAI HOKOKU, NO. 21. 1-4. 1970 IN JAPANESE
- 416 72 043 KOLB W
INFLUENCE OF CHINESE NUCLEAR WEAPONS TESTS ON THE RADIONUCLIDE CONCENTRATION IN THE AIR NEAR THE
EARTH
NP-19124. PHYSIKALISCH-TECHNISCHE BUNDESANSTALT, BRUNSWICK, WEST GERMANY, JULY 1971. 30P. RA-1/71.
NTIS
- 416 72 044 KOLINA J
ISOTOPIC EXCHANGE OF 2-THIOURACIL AND 2-THIO-6-AZAUACIL DERIVATIVES WITH ELEMENTARY SULFUR S(35)
RADIOISOTOPY, 12. 989, 1971. FROM 6TH RADIOCHEMICAL CONFERENCE, MARIANSKE LAZNE, CZECHOSLOVAKIA, MAY
1971
- 416 72 045 KRUGER P
HYDROLOGIC TRANSPORT OF RADIONUCLIDES FROM NUCLEAR CRATERS AND QUARRIES
NCG-TR-30. ARMY ENGINEER NUCLEAR CRATERING GROUP, LIVERMORE, CALIF., SEPT. 1970. 131P. NTIS

- 416 72 046 KU TL GLASBY GP
RADIOMETRIC EVIDENCE FOR THE RAPID GROWTH RATE OF SHALLOW WATER. CONTINENTAL MARGIN MANGANESE
MODULES
GEOCHIM. COSMOCHEM. ACTA. 36. 699. 1972
- 416 72 047 KURANZ JL
TWENTY-FIVE YEARS OF ISOTOPES IN LIFE SCIENCES
ISOTOP. RADIAT. TECHNOL. 9. NO. 1. 113. 1971
- 416 72 048 KUZINA AM
SOVREMENNYE PROBLEMY RADIOBIOLOGII. TOM II. RADIOEKOLOGIYA. (CONTEMPORARY PROBLEMS OF RADIOBIOLOGY.
VOL. II. RADIOECOLOGY)
BOOK. ATOMIZDAT. MOSCOW. 1971. 422P. 1,179 REFERENCES
- 416 72 049 LALLEMAND A GRISON G
CONTRIBUTION TO THE SELECTION OF RADIOACTIVE TRACERS FOR HYDROLOGY
LIB/TRANS-298. TRANSLATED FOR AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT. LUCAS
HEIGHTS FROM SYMPOSIUM ON THE USE OF ISOTOPES IN HYDROLOGY. VIENNA. MARCH 9-13. 1970. 12P.
CONF-700328-3. SM-129/52. NTIS
- 416 72 050 LE GALL P ANCELLIN J
CONCENTRATION FACTORS FOR CS(137), CE(144), AND RU(106) IN SEVERAL SPECIES OF EDIBLE MARINE MOLLUSKS
AND CRUSTACEANS
CEA-N-1488. COMMISSARIAT A L'ENERGIE ATOMIQUE. LA HAGUE, FRANCE. NOV. 1971. 7P IN FRENCH. NTIS
- 416 72 051 LEAFFER NA ANBAR M
SYNTHESIS OF P(32) LABELED POLYALKYL POLYPHOSPHONATES (PHOSPHONATED POLYETHYLENE)
J. LABEL. COMPOUNDS. 7. 345. 1971
- 416 72 052 LEONTIADIS J DIMITROULAS C
USE OF RADIOISOTOPES IN TRACING KARST GROUNDWATER IN GREECE. 1. FURTHER INVESTIGATION ON THE
POSSIBLE INTERCONNECTION BETWEEN PARTHENI SINKHOLE AND VARIOUS SPRINGS OF THE NEAR AREA
DEMO-71/10. DEMOCRITUS NUCLEAR RESEARCH CENTER, ATHENS, GREECE, APRIL 1971. 13P. NTIS
- 416 72 053 LIANG T NORDIN P MOSER H
DISTRIBUTION OF TRITIUM IN GLUCOSE AND STARCH LABELED BY TRITIUM ATOM BOMBARDMENT
COO-584-50. KANSAS STATE UNIV., MANHATTAN. 1972. 17P. NTIS
- 416 72 054 LIBBY WF
TRITIUM HYDROLOGY
PP 49 OF TRANSACTIONS OF THE ISOTOPIC SNOW GAGE INFORMATION MEETING. IDAHO NUCLEAR ENERGY
COMMISSION. BOISE. 1970. FROM MEETING. SUN VALLEY, IDAHO. OCT. 28. 1970. CONF-701053
- 416 72 055 LICHTENSTEIN EP
INCREASE IN TOXICITY OF C(14)-INSECTICIDES WITH POLYCHLORINATED BIPHENYL COMPOUNDS (PCB'S)
PP 137-141 OF RADIOTRACER STUDIES OF CHEMICAL RESIDUES IN FOOD AND AGRICULTURE. INTERNATIONAL ATOMIC
ENERGY AGENCY. VIENNA. 1972. FROM MEETING. VIENNA, AUSTRIA. OCT. 25. 1971. STI/PUB-332.
CONF-711069
- 416 72 056 LINTERMANS J BENAKIS A (1,2) WILLIAMS J (1)
1. SYNTHÈSE DU CITRATE DE (DIETHYL-AMINO-ETHOXY-CARBONYL)-3-PYRIDINE (NICAMETATE) MARQUE PAR LE
C(14). 2. SYNTHÈSE DU N-(DICHLORO-3,4-PHENYL)-N-BENZOYL-N,N'-DIMETHYLUREE (PHENOBENZURON) MARQUE
PAR LE C(14) SUR LE CARBONYLE DU GROUPE BENZOYLE. 3. SYNTHÈSE DU METHANESULFONATE DE (1
PYRIMIDYL-2)-1-(METHYLENE)-(DIOXY-3,4-BENZYL)-4-PIPERAZINIUM (PIRIBEDIL) MARQUE AU C(14)
J. LABEL. COMPOUNDS. 7. 533 AND 561. 1971 AND HELV. CHIM. ACTA. 54. 1713. 1971
- 416 72 057 MAKHON'KO KP
RADIOACTIVITY OF THE ATMOSPHERE. REPORTS ON A SYMPOSIUM, OBNINSK, JULY 30 - AUGUST 2, 1968
BOOK. MOSKOVSKOE OTDELENIE GIDROMETEOROLOGII. MOSCOW. 1970. 132P. AEC-TR-7268. TRANSLATION OF
CONF-680733. 160P
- 416 72 058 MARKELOV VN NELEPO BA
INVESTIGATION OF THE TRANSPORT OF ATOMIC INDUSTRIES EFFLUENTS DISCHARGED BY GREAT BRITAIN INTO THE
IRISH SEA
SOURCE NOT GIVEN. IN RUSSIAN
- 416 72 059 MARTIN JR KORANDA JJ
RECENT MEASUREMENTS OF CS(137) RESIDENCE TIME IN ALASKAN VEGETATION
UCRL-72925. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., MAY 1971. 25P. CONF-710501-34.
FROM 3RD NATIONAL SYMPOSIUM ON RADIOECOLOGY. OAK RIDGE, TENN., MAY 10, 1971
- 416 72 060 MARTON J KOVACS A
ROLE OF HETEROGEN CATALYTIC EXCHANGE REACTION BETWEEN TRITIUM GAS AND THE SOLVENT IN THE CATALYTIC
TRITATION OF UNSATURATED COMPOUNDS
RADIOISOTOPY. 12. 595. 1971. FROM 6TH RADIOCHEMICAL CONFERENCE. MARIANSKE LAZNE, CZECHOSLOVAKIA, MAY
1971
- 416 72 061 MELVAS B
POLYCHLORINATED BIPHENYLS (PCB'S): AN ENVIRONMENTAL HEALTH PROBLEM. EXPERIMENTS WITH THE SYNTHESIS
OF TETRACHLOROBIPHENYL (LABELED C(14)) FOR TOXICOLOGICAL AND METHOD STUDIES
NRC-TT-1616. TRANSLATED FROM NORD. HYG. TIDSKR., 52. NO. 1. 40-44. 1971. NTIS
- 416 72 062 MICHALIK JS
RADIOTRACER METHOD FOR THE CHEMICAL ELEMENTS BALANCING IN TECHNOLOGICAL PROCESSES
INR-1383. INSTITUTE OF NUCLEAR RESEARCH, WARSAW, POLAND. 1972. 118P IN POLISH. NTIS
- 416 72 063 NO AUTHOR
USSR REPORTS ON FALLOUT AND ON NATURAL RADON
AEC-TR-7232. TRANSLATION OF RUSSIAN ARTICLES. 161P. NTIS. 10 ARTICLES
- 416 72 064 NO AUTHOR
PHYSICAL AND RADIOLOGICAL CHEMISTRY OF OCEAN SOLUTIONS
PP 12-22 OF BNWL-1551(Pt.2). BATTELLE-NORTHWEST, RICHLAND, WASH., PACIFIC NORTHWEST LAB. IN ANNUAL
REPORT FOR 1970
- 416 72 065 NO AUTHOR
1. PHYSICAL AND RADIOLOGICAL CHEMISTRY OF OCEAN SOLUTIONS. 2. RADIONUCLIDE DECLINE IN COLUMBIA RIVER
WATER
PP 18-25 AND PP 74-80 OF BNWL-1651(Pt.2). BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., MAY
1972. IN ANNUAL REPORT FOR 1971. VOL. II. PT. 2

- 416 72 066 NO AUTHOR
RADIOISOTOPES IN THE ENVIRONMENT. 155TH MEETING OF THE AMERICAN CHEMICAL SOCIETY, SAN FRANCISCO, CALIF., APRIL 1 - 3, 1968
BOOK, ADVANCES IN CHEMISTRY SERIES NO. 93. AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.C., 1970. 538P.
CONF-680476. 28 PAPERS
- 416 72 067 NO AUTHOR
ANNUAL REPORT, 1970
HMI-B-112. HAHN-MEITNER-INSTITUT FUER KERNFORSCHUNG, BERLIN, WEST GERMANY, JULY 1971. 210P IN GERMAN
- 416 72 068 NO AUTHOR
1. RADIOACTIVE TRACER STUDIES OF SOIL AND LITTER ARTHROPOD. 2. DISTRIBUTION AND CYCLING OF RADIOACTIVE ISOTOPES RELEASED INTO THE SAVANNAH RIVER SWAMP FOREST: ENVIRONMENTAL IMPLICATIONS
1. SRD-641-4. PROGRESS REPORT. NOV. 1971 - NOV. 1972. GEORGIA UNIV., ATHENS, DEPT. OF ENTOMOLOGY, AUG. 1972. 32P. 2. SRD-708-1. PROGRESS REPORT, NOV. 1971 - AUG. 1972. SAVANNAH RIVER ECOLOGY LAB., AIKEN, SOUTH CAROLINA, 1972. 44P. NTIS
- 416 72 069 NO AUTHOR
LABELED COMPOUNDS
PP 821-98 OF RADIOISOTOPE PRODUCTION AND QUALITY CONTROL. INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1971. STI/DOC-10/128. 135 REFERENCES
- 416 72 070 NO AUTHOR
ISOTOPES AND RADIATION IN SOIL-PLANT RELATIONSHIPS INCLUDING FORESTRY. PROCEEDINGS OF THE SYMPOSIUM HELD IN VIENNA, DEC. 13 - 17, 1971
BOOK, PROCEEDINGS SERIES. INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA, JUNE 1972. 684P IN SEVERAL LANGUAGES. CONF-711213. IAEA
- 416 72 071 NO AUTHOR
RADIOISOTOPES IN RESEARCH
TID-26131. OAK RIDGE ASSOCIATED UNIVERSITIES, INC., TENN., SPECIAL TRAINING DIV., 1971. 188P. NTIS
- 416 72 072 NO AUTHOR
TENTATIVE METHOD OF ANALYSIS FOR TRITIUM CONTENT OF THE ATMOSPHERE
HEALTH LAB. SCI., 8. NO. 2. 107. 1971
- 416 72 073 NO AUTHOR
RADIOISOTOPIC SAND-TRACER STUDY
ISOTOP. RADIAT. TECHNOL., 8. NO. 4. 392. 1971
- 416 72 074 NORK WE
HYDROLOGIC CONTAMINATION PREDICTION METHODOLOGY
NVO-1229-141. TELEDYNE ISOTOPES, PALO ALTO, CALIFORNIA, MAY 1970. 10P. NTIS
- 416 72 075 NOSHKIN VE BOWEN VT
CONCENTRATIONS AND DISTRIBUTIONS OF LONG LIVED FALLOUT RADIOISOTOPES IN OPEN OCEAN SEDIMENTS
COO-3563-3. WOODS HOLE OCEANOGRAPHIC INST., MASS., 1972. 22P. CONF-720708-4. FROM SYMPOSIUM ON THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, WASH., JULY 10, 1972
- 416 72 076 OESTLUND HG BERRY EX (1)
1. MODIFICATION OF ATMOSPHERIC TRITIUM AND WATER VAPOR BY LAKE TAHOE. 2. ATMOSPHERIC HT AND HTO. 1970 - 71. 3. STUDY OF TRITIATED HYDROGEN AND ITS COMPOUNDS IN THE ENVIRONMENT
1. TELLUS, 22. NO. 4. 463. 1970. 2. ORD-3944-3. TECHNICAL REPORT, MAY 1970 - AUG. 1971. MIAMI UNIV., FLA., ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCES, OCT. 1971. 26P. 3. UM-RSMAS-72031. PROGRESS REPORT, AUG. 1971 - APR. 1972. MIAMI UNIV., FLA. 14P. NTIS
- 416 72 077 OHMOMO Y MIETTINEN V BLANKENSTEIN E TILLANDER M RISSANEN K
MIETTINEN JK
STUDIES ON THE DISTRIBUTION OF HG(203) LABELED METHYL MERCURY AND PHENYL MERCURY IN PIKE
CONF-690527. PAPER 4. NATIONAL INST. OF RADIOLOGICAL SCIENCES, TOKYO, JAPAN, AND HELSINKI UNIV., FINLAND, DEPT. OF RADIOCHEMISTRY. 17P. FROM 5TH R.I.S. SYMPOSIUM, HELSINKI, MAY 19, 1969. IN RADIOACTIVITY IN SCANDINAVIA
- 416 72 078 OSTERBERG CL
METHODS FOR THE MEASUREMENT OF HANFORD INDUCED RADIOACTIVITY IN THE OCEAN
RLO-1750-70. OREGON STATE UNIV., CORVALLIS, DEPT. OF OCEANOGRAPHY. 36P. NTIS
- 416 72 079 PARCHEVSKII VP SOKOLOVA IA
CONTENT OF SR(90) IN SOME ORGANISMS IN THE BLACK SEA (1965 - 1968)
DDKL. AKAD. NAUK SSSR. 199. 705. 1971 IN RUSSIAN
- 416 72 080 PATIN SA TKACHENKO VN
ACCUMULATION OF ARTIFICIAL RADIOISOTOPES IN SHALLOW WATER DEPOSITS OF THE SOUTH ATLANTIC
AT. ENERGI. (USSR). 31. NO. 1. 72. 1971 IN RUSSIAN
- 416 72 081 PEARCY WG CLAEYS RR
ZN(65) AND ODT RESIDUES IN ALBACORE TUNA OFF OREGON IN 1969
RLO-2227-T-12-1. OREGON STATE UNIV., CORVALLIS, MARCH 1971. 26P. NTIS
- 416 72 082 PENTREATH RJ JEFFERIES DF
UPTAKE OF RADIOISOTOPES BY I-GROUP PLAICE (PLEURONCTES PLATESSA) OFF THE CUMBERLAND COAST, IRISH SEA
J. MAR. BIOL. ASSOC. U.K., 51. 963. 1971
- 416 72 083 PLATO PA
DISTRIBUTION OF CS(137) AND NATURALLY OCCURRING RADIOISOTOPES IN SEDIMENTS OF LAKE MICHIGAN
RADIAT. DATA REP., 13. NO. 4. 181. 1972
- 416 72 084 POLIKARPOV GG
RADIOISOTOPES OF HYDROBIONTS
PRIRODA, NO. 10. 47-55. 1971 IN RUSSIAN
- 416 72 085 POTTER GO MCINTYRE DR VATTUONE GM
1. FATE AND IMPLICATIONS OF PB(203) INGESTION IN A DAIRY COW AND A CALF. 2. FATE AND IMPLICATIONS OF INGESTED TL(204) IN A DAIRY COW AND A CALF. 3. METABOLISM OF HG(203) ADMINISTERED AS HGCL2 IN THE DAIRY COW AND CALF
HEALTH PHYS., 20. 650 AND 657. 1971 AND 22. 103. 1972

- 416 72 086 PRICE KR
CRITICAL REVIEW OF BIOLOGICAL ACCUMULATION, DISCRIMINATION, AND UPTAKE OF RADIONUCLIDES IMPORTANT TO WASTE MANAGEMENT PRACTICES, 1943 - 1971
BNWL-B-148. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., DEC. 1971. 67P. NTIS. 119 REFERENCES
- 416 72 087 PURUSHOTHAMAN K
RADIONUCLIDE TRANSPORT IN AN AQUATIC MODEL SYSTEM
PP 174-85 OF TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH. IV. HEMPHILL, D.D. (ED.). UNIV. OF MISSOURI, COLUMBIA, MO., 1971. FROM 4TH ANNUAL CONFERENCE, COLUMBIA, JUNE 23, 1970
- 416 72 088 RANZON D
PRACTICAL USE OF THE DISTRIBUTION COEFFICIENT FOR MEASUREMENT OF RADIOACTIVE CONTAMINATION OF MINERALS IN ROCKS, SOIL, AND UNDERGROUND WATERS
RFP-TRANS-103. TRANSLATED FOR DOW CHEMICAL CO., GOLDEN, COLO., FROM REPORT CEA-R-4274. 33P. NTIS
- 416 72 089 RITCHIE JC MCHENRY JR GILL AC HAWKS PH
FALLOUT CS(137) IN RESERVOIR SEDIMENT
HEALTH PHYS., 22, NO. 1, 96, 1972
- 416 72 090 ROSENTHAL GM STEWART ML
TRITIUM INCORPORATION IN ALGAE AND TRANSFER IN SIMPLE AQUATIC FOOD CHAINS
CONF-710501-24. CHICAGO UNIV., ILL., DEPT. OF BIOLOGY, AND ARGONNE NATIONAL LAB., ILL., 1971. 16P.
FROM 3RD NATIONAL SYMPOSIUM ON RADIOECOLOGY, OAK RIDGE, TENN., MAY 10, 1971
- 416 72 091 RYDBERG B
IMPORTANCE OF THE INTRACELLULAR DISTRIBUTION OF RADIONUCLIDES IN THE HUMAN BODY. PRELIMINARY DISCUSSION OF SR(90) AND FE(SS)
FOA-4-4489. FORSVARETS FORSKNINGSSANSTALT, STOCKHOLM, SWEDEN, MARCH 1972. 21P IN SWEDISH. NTIS
- 416 72 092 SCHELL WR
STUDIES OF CONCENTRATIONS OF UNREPORTED LONG LIVED RADIONUCLIDES IN BIODA AND OCEAN SEDIMENTS AT BIKINI AND ENIWETOK ATOLLS
RLO-2225-T-18-2. ANNUAL PROGRESS REPORT, 1971-1972. WASHINGTON UNIV., SEATTLE, LAB. OF RADIATION ECOLOGY, MAY 1972. 12P
- 416 72 093 SCHELSKE CL
FALLOUT MN(54) ACCUMULATED BY BAY SCALLOPS ARGOPECTEN IRRADIANS (LAMARCK) NEAR BEAUFORT, NORTH CAROLINA
COO-2003-16. MICHIGAN UNIV., ANN ARBOR, GREAT LAKES RESEARCH DIV., 1972. 23P. CONF-720708-12.
SN-158-20. FROM SYMPOSIUM ON THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, WASH., JULY 10, 1972
- 416 72 094 SCHREIBER B CERRAI E TRIULZI C TASSI PELATI L MEZZADRI MG
RESEARCH ON THE VERTICAL DISTRIBUTION OF RADIOACTIVITY IN SEDIMENT FROM THE LIGURIAN SEA
MINERVA FISCONUCL., 13, 1-19, 1969 IN ITALIAN. CONF-680535-3. FROM 14TH NATIONAL CONFERENCE OF THE ITALIAN ASSOCIATION FOR HEALTH PHYSICS AND PROTECTION FROM RADIATION, FORMIA, ITALY, MAY 29, 1968
- 416 72 095 SEYMOUR AH NELSON VA
DECLINE OF ZN(65) IN MARINE MUSSELS FOLLOWING THE SHUTDOWN OF MANFORD REACTORS
RLO-2225-T-1-9. WASHINGTON UNIV., SEATTLE, LAB. OF RADIATION ECOLOGY, 1972. 15P. CONF-720708-3.
SN-158/16. FROM SYMPOSIUM ON THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, WASH., JULY 10, 1972
- 416 72 096 SHOR R LAFFERTY RH BAKER PS
1. ELEMENTARY TEACHING EXPERIMENTS USING RADIOISOTOPES: A BIBLIOGRAPHY AND INDEX. 2. NUCLEAR EDUCATION EXPERIMENTS IN BIOLOGY, CHEMISTRY, AND PHYSICS: A CROSS-REFERENCES INDEX
ORNL-IIC-23 AND 35. JAN. 1972 AND MAY 1972, 19P AND 137P. OAK RIDGE NATIONAL LAB., TENN. NTIS
- 416 72 097 SILKER WB YOUNG JA (2) PETERSEN MR (2)
1. HORIZONTAL AND VERTICAL DISTRIBUTIONS OF RADIONUCLIDES IN THE NORTH PACIFIC OCEAN. 2. OCEANIC DISTRIBUTIONS AND RELATIONSHIPS OF BE(7) AND FISSION PRODUCTS
1. J. GEOPHYS. RES., 77, 1061, 1972. 2. BNWL-SA-4205(REV.). BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., 1972. 18P. CONF-720708-6. NTIS. FROM SYMPOSIUM ON THE INTERACTION OF RADIOACTIVE CONTAMINANTS WITH THE CONSTITUENTS OF THE MARINE ENVIRONMENT, SEATTLE, WASH., JULY 10, 1972
- 416 72 098 SOEDERLUND R
ON THE EXCHANGE OF TRITIUM IN THE GULF OF BOTHNIA
STU-69-1058/U-783. STOCKHOLM UNIV., SWEDEN, INST. OF METEOROLOGY, AND INTERNATIONAL METEOROLOGICAL INST., STOCKHOLM, SEPT. 1971. 28P. NTIS
- 416 72 099 SOIFER VN ROMANOV VV GASILINA NK RCLSYI EI
SCREENING EFFECT OF CONTINENTS WHICH DETERMINES THE ISOTOPIC COMPOSITION OF ATMOSPHERIC MOISTURE (BASED ON TRITIUM SPACE-TIME DISTRIBUTION IN THE ATMOSPHERIC PRECIPITATION OF THE NORTHERN HEMISPHERE)
DOKL. AKAD. NAUK SSSR, 201, 78, 1971 IN RUSSIAN. JPRS-55027, 1972
- 416 72 100 STEWART GL WYERMAN TA SHERMAN M SCHNEIDER R
TRITIUM IN PINE TREES FROM SELECTED LOCATIONS IN THE UNITED STATES, INCLUDING AREAS NEAR NUCLEAR FACILITIES
U.S., GEOL. SURV., PROF. PAP., NO. 800-B, 265, 1972
- 416 72 101 SUESS A SIEGMUND H EBEN C GRAMPP B
REACTIONS OF HERBICIDES WITH SOIL AND PLANTS
PP 111-21 OF RADIOTRACER STUDIES OF CHEMICAL RESIDUES IN FOOD AND AGRICULTURE. INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, 1972. FROM MEETING, VIENNA, AUSTRIA, OCT. 25, 1971. STI/PUB-332.
CONF-711069
- 416 72 102 TAMURA T BONNER WP FRANCIS CW BRINKLEY FS EASTWOOD ER
FATE OF TRACE ELEMENTS AND RADIONUCLIDES IN TERRESTRIAL ENVIRONMENT
PP 1-10 OF ORNL-4720. OAK RIDGE NATIONAL LAB., TENN., OCT. 1971. IN HEALTH PHYSICS DIVISION ANNUAL PROGRESS REPORT
- 416 72 103 THEODORSSON P
TRITIUM IN GROUND WATER AND GLACIERS IN ICELAND
JOEKULL (REYKJAVIK), 18, 350-8, 1968 IN ICELANDIC
- 416 72 104 TRIQUET C
FIRST OBSERVATIONS ON CS(137) CONTAMINATION IN THE ANNELID POLYCHETA ARENICOLA MARINA (L)
COMPT. REND. SOC. BIOL., 164, 1636, 1970 IN FRENCH

- 416 72 105 VOIPIO A SALO A
BALANCES OF SR(90) AND CS(137) IN THE BALTIC SEA
NORD. HYDROL., 2. NO. 1. 57. 1971
- 416 72 106 WATSON DG CUSHING CE COUTANT CC TEMPLETON WL
CYCLING OF RADIONUCLIDES IN COLUMBIA RIVER BIOTA
PP 144-57 OF TRACE SUBSTANCES IN ENVIRONMENTAL HEALTH. IV. HEMPHILL, D.O. (ED.). UNIV. OF MISSOURI,
COLUMBIA, MO., 1971. FROM 4TH ANNUAL CONFERENCE, COLUMBIA. JUNE 23, 1970
- 416 72 107 WEED HC
REACTIONS OF METHANE AND OF CARBON MONOXIDE WITH TRITIATED WATER: A LITERATURE REVIEW
UCRL-51238. CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB., JUNE 1972. 16P. NTIS
- 416 72 108 WEEKS RW GARLAND JK
RECOIL TRITIUM REACTIONS WITH CYCLOHEXENE INCLUDING THE PRESSURE DEPENDENCE OF THE UNIMOLECULAR
DECOMPOSITION
JACS. 93. 2380. 1971
- 416 72 109 WELCH MJ LIFTON JF
FATE OF N(13) FORMED BY THE $^{12}\text{C}(12)(\text{D},\text{N})\text{N}(13)$ REACTION IN INORGANIC CARBIDES
JACS. 93. 3385. 1971
- 416 72 110 WILLIAMS RL VOIGT AF
REACTIONS OF RECOIL CARBON ATOMS WITH OXYGEN CONTAINING MOLECULES. 3. REACTION MECHANISMS IN
METHANOL
J. PHYS. CHEM., 75. 2263. 1971
- 416 72 111 WILLIS DL
RADIONUCLIDE CYCLING IN NATURAL POPULATIONS OF AMPHIBIANS
RLO-2227-T-8-2 AND -3. ANNUAL PROGRESS REPORTS. JUNE 1970 - JUNE 1971 AND JUNE 1971 - JUNE 1972. 7P
AND 17P. OREGON STATE UNIV., CORVALLIS. DEPT. OF GENERAL SCIENCE. NTIS
- 416 72 112 WITKAMP M
TRANSFER OF CS(137) FROM DETRITUS TO PRIMARY PRODUCER
CONF-711213-1. OAK RIDGE NATIONAL LAB., TENN., 12P. FROM SYMPOSIUM ON THE USE OF ISOTOPES AND
RADIATION IN RESEARCH ON SOIL-PLANT RELATIONSHIPS INCLUDING APPLICATIONS IN FORESTRY, VIENNA,
AUSTRIA. DEC. 13. 1971
- 416 72 113 WONG KM NOSHKIN VE (1) SURPRENANT L (1) BCWEN VT (1) HODGE VF (2)
FALLOUT TR (2)
1. PU(239) IN SOME MARINE ORGANISMS AND SEDIMENTS. 2. CONCENTRATIONS OF PLUTONIUM, COBALT, AND
SILVER RADIONUCLIDES IN SELECTED PACIFIC SEAWEEDS
1. NYO-2174-115. HASL FALLOUT PROGRAM QUARTERLY SCIENCE REPORT. WOODS HOLE OCEANOGRAPHIC INST.,
MASS., MAY 1970. 7P. 2. CONF-710817-1. SCRIPPS INST. OF OCEANOGRAPHY, LA JOLLA, CALIF., 1971. 11P.
FROM PLUTONIUM SYMPOSIUM. LOS ALAMOS, NEW MEXICO, AUG. 5. 1971
- 420 72 001 APPFEL J KUBACH C
FORMATION OF ENERGETIC PROTONS BY ELECTRON IMPACT ON METHANE
CHEM. PHYS. LETT. 11. 486. 1971
- 420 72 002 ARAI S KIRA A IMAMURA M
THERMODYNAMIC CONSTANTS AND RATE CONSTANTS OF FORMATION OF PYRENE DIMER CATION
J. CHEM. PHYS., 56. 1777. 1972
- 420 72 003 ARIFOV UA POZHAROV SL CHERNOV IG MUKHAMEDIEV ZA
MASS SPECTROMETRIC STUDY OF THE KINETICS OF $\text{DS}(+)$ FORMATION
- HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5. NO. 1. 79. 1971. TRANSLATED FROM KHIM. VYS. ENERG., 5. NO.
1. 90. 1971
- 420 72 004 ASMUS TW HOUSER TJ
THE KINETICS OF THE HYDROGEN-OXYGEN DIFLUORIDE REACTION IN MONEL
INORG. CHEM., 11. 234. 1972. 10 REFERENCES
- 420 72 005 AST T
LONG LIVED STATES OF RARE GAS IONS. AN ION KINETIC ENERGY STUDY
JACS. 94. 6611. 1972
- 420 72 006 BENNION BC AUBORN JJ EYRING EM
COMPROPORTIONATION KINETICS OF STABLE VIOLENCE RADICAL IONS
J. PHYS. CHEM., 76. 701. 1972
- 420 72 007 BESSON J AZZOPARDI M CAILLET M SARRAZIN P SOUSTELLE M
ELEMENTARY MECHANISMS IN HETEROGENEOUS KINETICS. 4. COMPLEX AND PURE RATE SYSTEMS KINETIC LAWS AND
INFLUENCE OF PRESSURE IN PURE RATE SYSTEMS
ORNL-TR-2394. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM J. CHIM. PHYS., 63. 1049. 1966.
12P. NTIS
- 420 72 008 BEYNDON JH COOKS RG (1) FONTAINE AE (2) LESTER GR (2)
1. IKES AND MIKES: ION KINETIC ENERGY SPECTROMETRY. NEW TECHNIQUES ALLOW CONSIDERABLE INFORMATION ON
ION KINETICS AND ENERGETICS TO BE EXTRACTED FROM REACTIONS INVOLVING GASEOUS IONS. 2.
DECOMPOSITION OF METASTABLE IONS INVOLVING RELEASE OF INTERNAL ENERGY: SHAPES OF ION KINETIC
ENERGY PEAKS. 3. CHARGE LOCALIZATION: ION KINETIC ENERGY SPECTRA OF PYRAZINE, PYRIMIDINE, AND
PYRIDAZINE
RES./DEVELOP., 22. NO. 11. 26. 1971. J. MASS SPECTRY. ION PHYS., 8. 341-63. 1972. 7 REFERENCES, AND
ORG. MASS SPECTRY. 6. NO. 3. 273. 1972
- 420 72 009 BEYNDON JH COOKS RG (1) CAPRIOLI RM (1) BERTRAND M (2) JONES EG (2)
1. MASS AND ION KINETIC ENERGY SPECTRA OF H_2 , HD, AND D_2 . 2. KINETIC ENERGY LOSS IN COLLISION
INDUCED FRAGMENTATIONS: ASYMMETRIC METASTABLE PEAKS IN MASS SPECTRA
PROC. ROY. SOC. (LONDON). SER. A. 327. NO. 1568. 1-11. 1972. AND J. CHEM. SOC., CHEM. COMMUN., P341.
1972
- 420 72 010 BLACKBURN GM PLACKETT JD
STRAIN EFFECTS IN ACYL TRANSFER REACTIONS. 1. THE KINETICS OF HYDROLYSIS OF SOME N-ARYL-LACTAMS
J. CHEM. SOC., PERKIN TRANS., II. P1366. 1972
- 420 72 011 BUNNE DK YOUNG LB
KINETIC STUDIES OF THE REACTIONS OF OXIDE, HYDROXIDE, ALKOXIDE, PHENYL, AND BENZYLIC ANIONS WITH
METHYL CHLORIDE IN THE GAS PHASE AT 22.5 DEGREES C
JACS. 92. 7354. 1970

- 420 72 012 CARR RW
KINETICS OF METHYLENE AND HYDROXYL RADICAL REACTIONS
COD-2026-8. TECHNICAL PROGRESS REPORT. JANUARY-DECEMBER 1971. MINNESOTA UNIV., MINNEAPOLIS, DEPT. OF
CHEMICAL ENGINEERING AND MATERIALS SCIENCE. 11P. NTIS
- 420 72 013 CUNNINGHAM AJ
KINETIC STUDY OF THE PROTON HYDRATE $H^+(H_2O)(SUB N)$ EQUILIBRIA IN THE GAS PHASE
JACS. 94. 7627. 1972
- 420 72 014 DAVIS DD HUIE RE HERRON JT
ABSOLUTE RATE CONSTANTS FOR REACTION OF ATOMIC OXYGEN WITH ETHYLENE OVER TEMPERATURE RANGE 232 - 500
DEGREES K
J. CHEM. PHYS.. 56. 4868. 1972
- 420 72 015 DENISIK SA MALAMA Y LEBEDEV S POLAK LS
RESHENIE ZADACH FIZICHESKOI I KHIMICHESKOI KINETIKI METODOM MONTE-KARLO (USE OF COMPUTER MATHEMATICS
IN CHEMICAL AND PHYSICAL KINETICS)
AD-729 551. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD, VA.
22151. 1971
- 420 72 016 DDERING WVE TOSCANO VG BEASLEY GH
KINETICS OF COPE REARRANGEMENT OF 1,1-DIDEUTERIOHEXA-1,5-DIENE
TETRAHEDRON. 27. 5299. 1971
- 420 72 017 ELAND JHD
PREDISSOCIATION OF TRIATOMIC IONS STUDIED BY PHOTOELECTRON-PHOTON COINCIDENCE SPECTROSCOPY AND
PHOTOION KINETIC ENERGY ANALYSIS. 1. $CO_2^+(+)$
J. MASS SPECTRY. ION PHYS.. 9. 397. 1972. 8 REFERENCES
- 420 72 018 ENTENMANN EA KWEI GH (2)
1. MOLECULAR BEAM KINETICS: REACTIONS OF K AND CS WITH ALKYL DIHALIDES. 2. MOLECULAR BEAM KINETICS:
REACTIONS OF K AND CS ATOMS WITH UNSATURATED HALOGENATED HYDROCARBONS
J. CHEM. PHYS.. 55. 4872 AND 4879. 1971
- 420 72 019 FEHLNER TP
REACTIONS OF BORANE (BH_3). 2. ABSOLUTE RATE OF REACTION OF BORANE WITH ETHYLENE IN GAS PHASE. 4. THE
ABSOLUTE RATE OF REACTION WITH ACETONE
JACS. 93. 6366. 1971 AND INORG. CHEM.. 11. 252. 1972. 15 REFERENCES
- 420 72 020 FEHSENFELD FC FERGUSON EE
1. RATE CONSTANTS FOR THE REACTIONS OF $CO_2^+(+)$ + H AND $H^+(+)$ + CO_2 . 2. THERMAL ENERGY REACTION RATE
CONSTANTS FOR $H^+(+)$ AND $CO^+(+)$ WITH O AND NO
J. GEOPHYS. RES.. 76. 8453. 1971 AND J. CHEM. PHYS.. 56. 3066. 1972
- 420 72 021 FOOTE CS DENNY RW
CHEMISTRY OF SINGLET OXYGEN. 12. ELECTRONIC EFFECTS ON RATE AND PRODUCTS OF THE REACTION WITH
OLEFINS
JACS. 93. 5162. 1971
- 420 72 022 FUCHS R
DIE KINETISCHE ENERGIE IONISierter MOLEKULFRAGMENTE. 7. $H_3^+(+)$ -ALS FRAGMENT ION BEI DER
ELEKTROENSTOSSIONISIERUNG VON KOHLENWASSERSTOFFEN
J. MASS SPECTRY. ION PHYS.. 8. 193. 1972. 21 REFERENCES
- 420 72 023 GILBURD MM MOIN FB
MASS SPECTROMETRIC STUDY OF THE KINETICS OF FAST HIGH TEMPERATURE REACTIONS. 3. THERMAL

DECOMPOSITION OF METHYLACETATE
KINET. KATAL.. 13. 836. 1972 IN RUSSIAN
- 420 72 024 GREENE EF
EXPERIMENTAL CHEMICAL KINETICS: A STUDY OF CHEMICAL REACTIONS BY MEANS OF MOLECULAR BEAM AND SHOCK
WAVE TECHNIQUES
TID-25865 AND COD-3129-31. PROGRESS REPORTS. 1970-1971 AND OCT. 1971 - OCT. 1972. 4P AND 11P. BROWN
UNIV., PROVIDENCE. R.I.. DEPT. OF CHEMISTRY
- 420 72 025 GREENE FT
AN EXPERIMENTAL STUDY OF THE STRUCTURE, THERMODYNAMICS, AND KINETIC BEHAVIOR OF WATER
PB-200 906. MIDWEST RESEARCH INST., KANSAS CITY, MO. 68P
- 420 72 026 GUIDINI J JULIENNE A ROUSSEL M VALCKX FPG
KINETIC ENERGIES OF COLLISION INDUCED DISSOCIATIONS OF 40 TO 140 KEV $CH(SUB N)^+(+)$ IONS
CEA-CONF-1798. COMMISSARIAT A L'ENERGIE ATOMIQUE. FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES
NUCLEAIRES. 1971. 2P. CONF-710702-3. FROM 7TH INTERNATIONAL CONFERENCE ON THE PHYSICS OF
ELECTRONIC AND ATOMIC COLLISIONS. AMSTERDAM, NETHERLANDS. JULY 26. 1971
- 420 72 027 HAMMOND RH HENIS JMS GREENE EF ROSS J
KINETIC ENERGIES OF IONIZATION PRODUCTS FROM COLLISIONS OF AR-AR AND HE-HE BELOW 150 EV C.M. ENERGY
J. CHEM. PHYS.. 55. 3506. 1971
- 420 72 028 HELLNER L SIECK LW
KINETIC MASS SPECTROMETRIC INVESTIGATION OF THE REACTIONS OF $T-C_4H_9^+(+)$ IONS WITH SOME SIMPLE POLAR
MOLECULES AT THERMAL ENERGIES
J. RES. NAT. BUR. STAND.. 75A. 487. 1971
- 420 72 029 HIBBERT F LONG FA
PROTON TRANSFER FROM CYANOCARBON ACIDS. 4. KINETIC IONIZATION BEHAVIOR OF P-NITROBENZYL CYANIDE AND
BROMOMALONONITRILE
JACS. 94. 2647. 1972
- 420 72 030 HORGAN GP DUNN MR FREEMAN CG
MASS SPECTROMETRIC OBSERVATIONS ON THE REACTION OF HYDROGEN ATOMS WITH IODINE CYANIDE
J. PHYS. CHEM.. 76. 1392. 1972
- 420 72 031 HOUSER TJ ASMUS TW
KINETICS AND MECHANISM OF PYROLYSIS OF OXYGEN DIFLUORIDE
JACS. 94. 3326. 1972
- 420 72 032 HUIE RE HERRON JT DAVIS DD (1)
1. ABSOLUTE RATE CONSTANTS FOR REACTION OF ATOMIC OXYGEN WITH 1-BUTENE OVER TEMPERATURE RANGE OF 259
- 493 DEGREES K. 2. RATES OF REACTION OF ATOMIC OXYGEN. III. SPIROPENTANE, CYCLOPENTANE,
CYCLOHEXANE, AND CYCLOHEPTANE
J. PHYS. CHEM.. 75. NO. 25. XXX. 1971 AND J. RES. NAT. BUR. STAND.. 76A. NO. 2. 77. 1972

- 420 72 033 HUNTRESS WT ELLEMAN DO BOWERS MT
DEPENDENCE OF THE RATES ON ION KINETIC ENERGY FOR THE REACTIONS $O_2(+) + O_2$ AND $HO(+) + HO$
J. CHEM. PHYS., 55, 5413, 1971
- 420 72 034 IDEN CR LIARDON R KOSKI WS
KINEMATICS OF THE $C(+)(O_2,D)CD(+)$ REACTION
AD-745 604, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U. S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 420 72 035 JONES RH
KINETICS OF THE REACTION OF PYROLYTIC GRAPHITE WITH MOLECULAR OXYGEN STUDIED BY MODULATED MOLECULAR
BEAM MASS SPECTROMETRY
LBL-104, THESIS, CALIFORNIA UNIV., BERKELEY, NOV. 1971, 208P, NTIS, LAWRENCE BERKELEY LAB.
- 420 72 036 JULIENNE A
ENERGY SPECTRA OF THE DISSOCIATION PRODUCTS OF $CH(SUB N)(+)$ ($N=1$ THROUGH 5) WITH A MOLECULAR
NITROGEN TARGET
EUR-CEA-FC-644, THESIS, PARIS UNIV., ORSAY, FRANCE, MAY 1972, 65P IN FRENCH, NTIS, COMMISSARIAT A L'
ENERGIE ATOMIQUE, FONTENAY-AUX-ROSES, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 420 72 037 LAU KH LIN SH
APPLICATION OF METHOD OF STEEPEST DESCENT TO CALCULATION OF TRANSLATIONAL ENERGY OF FRAGMENTS OF ION
DECOMPOSITION
J. PHYS. CHEM., 75, 2458, 1971
- 420 72 038 LEIPUNSK IO MOROZOV II TALROZE VL
MASS SPECTROMETRIC MEASUREMENT OF RATE CONSTANTS OF REACTIONS OF HYDROGEN AND FLUORINE ATOMS WITH
METHYL IODIDE AND TRIFLUORODIMETHANE
DOKL. AKADE. NAUK SSSR, 198, 1367, 1971
- 420 72 039 LEVINE RD WOLF FA MAUS JA
ENERGY DISTRIBUTION OF FINAL PRODUCTS IN MOLECULAR COLLISIONS
CHEM. PHYS. LETT., 10, 2, 1971
- 420 72 040 LIN SM
MOLECULAR BEAM KINETICS
LBL-891, THESIS, CALIFORNIA UNIV., BERKELEY, SEPT. 1972, 159P, LAWRENCE BERKELEY LAB, NTIS
- 420 72 041 MAHER KE LEVENTHAL JJ MCCLURE GJ (2)
1. ENERGY TRANSFER IN ELECTRON EXCHANGE REACTIONS AT LOW KINETIC ENERGIES. 2. ELECTRON TRANSFER AND
ION-ATOM INTERCHANGE IN $C(+)-CO$ COLLISIONS
PHYS. REV. LETT., 27, 1253, 1971 AND J. CHEM. PHYS., 55, 5549, 1971
- 420 72 042 MAIER WB MURAD E
STUDY OF COLLISIONS BETWEEN LOW ENERGY $N(+)$ AND N_2 : REACTION CROSS SECTIONS, ISOTOPIC COMPOSITIONS,
AND KINETIC ENERGIES OF THE PRODUCTS
J. CHEM. PHYS., 55, 2307, 1971
- 420 72 043 MCALLISTER T
1. COMPARISON OF EXPRESSIONS FOR THE DETERMINATION OF RATE CONSTANTS OF ION-MOLECULE REACTIONS BY
ION CYCLOTRON RESONANCE MASS SPECTROMETRY. 2. ION-MOLECULE REACTION KINETICS BY ION CYCLOTRON
RESONANCE MASS SPECTROMETRY
J. MASS SPECTRY, ION PHYS., 8, 162, 1972, 6 REFERENCES, AND J. MASS SPECTRY, ION PHYS., 9, 127,
1972, 12 REFERENCES
- 420 72 044 MISRA SN CADDY GH
- KINETICS OF HYDROLYSIS OF OXYGEN DIFLUORIDE
INORG. CHEM., 11, 1132, 1972
- 420 72 045 MORAN TF FULLERTON DC
STATISTICAL PHASE-SPACE MODEL OF THE COLLISION INDUCED DISSOCIATION OF EXCITED $O_2(+) AND NO(+) IONS$
J. CHEM. PHYS., 54, 5231, 1971
- 420 72 046 MOSELEY JT ABERTH W PETERSON JR
TWO-BODY MUTUAL NEUTRALIZATION RATES OF $O_2(+) + O(-)$, $NO(+) + O(-)$, AND $NA(+) + O(-)$ OBTAINED WITH
MERGED BEAMS
J. GEOPHYS. RES., 77, 295, 1972
- 420 72 047 MUCKERMAN JT
CLASSICAL DYNAMICS OF REACTION OF FLUORINE ATOMS WITH HYDROGEN MOLECULES. 2. DEPENDENCE ON POTENTIAL
ENERGY SURFACE
J. CHEM. PHYS., 56, 2997, 1972
- 420 72 048 MULLER J BARONNET F ANDRE J (1) NICLAUSE M (2)
1. CINETIQUE CHIMIQUE, SUR LA FORMATION DE CHLORURE DE TERTIOBUTYLE LORS DE L'ETUDE DE LA PYROLYSE
DU NEOPENTANE ACCELEREE PAR HCL. 2. CINETIQUE CHIMIQUE, INFLUENCE ACCELERATRICE DE HCL SUR LA
PYROLYSE DU NEOPENTANE A 480 DEGREES C
COMPT. REND., SER. C, 274, 566 AND 1772, 1972
- 420 72 049 NASTICH YN ABRAMOV LY
ENERGIES OF POSITIVE IONS ARRIVING ON A BARE CATHODE OF ULTRADENSE GLOW DISCHARGE
Zh. TEKH. FIZ., 42, 1022, 1972 IN RUSSIAN
- 420 72 050 NIKI T MAINS GJ
CHEMICAL KINETICS OF THE PYROLYSIS OF HYDROGEN DEUTERIDE
J. PHYS. CHEM., 76, 3538, 1972
- 420 72 051 PANCHENKOV GH GUSEINOV AM KUSNETSO DI
THERMODYNAMIC FUNCTIONS FOR 2,4,6-TRIMETHYLPENTENE ISOMERIZATION
VESTN. MOSK. UNIV., SER. II, KHIM., NO. 4, 475, 1972 IN RUSSIAN
- 420 72 052 PAQUETTE LA
'STRETCHED BENZENE', A KINETIC ANALYSIS OF POSSIBLE PSEUDOAROMATICITY RESULTING FROM $(2+2+1+1)$
PARTITIONING OF A NEUTRAL SIX-ORBITAL SIX-ELECTRON SYSTEM
JACS, 93, 7179, 1971
- 420 72 053 PAYZANT JO KESARLE P
KINETICS OF REACTIONS LEADING TO $O_2-(H_2O)(SUB N)$ IN MOIST OXYGEN
J. CHEM. PHYS., 56, 3482, 1972

- 420 72 054 PERLMUTTER-HAYMAN B
PROCEEDINGS OF THE 22ND FARKAS MEMORIAL SYMPOSIUM ON KINETICS OF REACTIONS IN AQUEOUS SOLUTIONS.
JERUSALEM, DECEMBER 29 - 30, 1970
ISRAEL J. CHEM., 9, NO. 3, 287-427, 1971. CONF-701226. 12 PAPERS
- 420 72 055 PLATZNER I LEVIN G KLEIN FS
METHOD FOR ESTIMATING EXCESS KINETIC ENERGY OF IONIZATION PRODUCTS IN A PULSED ION SOURCE
J. CHEM. PHYS., 55, 2276, 1971
- 420 72 056 POLANYI JC KINSEY JL HENCHMAN MJ DOUBIN J
CHEMICAL KINETICS: MOLECULAR BEAM REACTIONS: ION-MOLECULE REACTIONS
CHAPTERS FROM VOLUME 9: PHYSICAL CHEMISTRY SERIES ONE. BUTTERWORTH AND CO. PUBLISHERS LTD., LONDON.
1972.
- 420 72 057 RODRIGUEZ-REINOS F THROWER PA WALKER PL
KINETIC STUDIES OF THE OXIDATION OF HIGHLY ORIENTED PYROLYTIC GRAPHITE
NYO-1710-104. PENNSYLVANIA STATE UNIV., UNIVERSITY PARK, DEPT. OF MATERIALS SCIENCE, 1971. 21P. NTIS
- 420 72 058 ROUSSEL M JULIENNE A
ETUDE DE L'ENERGIE CINETIQUE DES PRODUITS DE LA DISSOCIATION COLLISIONNELLE D'IONS CH(SUB N)(+) D'
ENERGIE 40 KEV. 1. DISSOCIATION DES IONS CH5(+), CH4(+), CH3(+), ET CH2(+). 2. DISSOCIATION DE
CH(+)
J. MASS SPECTRY, ION PHYS., 9, 449 AND 463, 1972. 16 AND 11 REFERENCES
- 420 72 059 SAEGUSA T MATSUMOTO S SHIOTA T (1) MOTOI M (2)
1. KINETIC STUDY OF RING-OPENING-POLYMERIZATION OF OXEPANE. 2. KINETIC STUDY OF POLYMERIZATION OF
EXO-2-METHYL-7-OXABICYCLO(2.2.1)HEPTANE
MACROMOLECULES, 5, 34 AND 236, 1972
- 420 72 060 SAFE S JAMIESON WD (2) HUTZINGER O (2)
1. ION KINETIC ENERGY AND MASS SPECTRA OF ISOMERIC MONO AND DICHLORONAPHTHALENES. 2. ION KINETIC
ENERGY AND MASS SPECTRA OF ISOMERIC METHYL INDOLES
J. CHEM. SOC., CHEM. COMMUN., P260, 1972 AND ORG. MASS SPECTRY, 6, 33, 1972. AD-739 625, 1971
- 420 72 061 SEGUIN JG DUGAN CH GOODINGS JM
PLASMA SAMPLING DIAGNOSTICS USING ION KINETIC ENERGY DISTRIBUTIONS
J. MASS SPECTRY, ION PHYS., 9, 203, 1972. 18 REFERENCES
- 420 72 062 SIECK LW HELLNER L (1) GORDEN R (1) SEARLES SK (2) AUSLOOS P (2)
1. KINETIC MASS SPECTROMETRIC DETERMINATION OF ABSOLUTE RATE COEFFICIENT FOR REACTION NH3(+)(NU = 0)
+ NH3 = NH4(+) + NH2 AT THERMAL KINETIC ENERGIES. 2. KINETIC MASS SPECTROMETRIC INVESTIGATION OF
ION-MOLECULE REACTIONS OCCURRING IN C4 AND C5 ALKANES FOLLOWING PHOTOIONIZATION AT 106.7 AND 104.8
NM
CHEM. PHYS. LETT., 10, 502, 1971 AND J. RES. NAT. BUR. STAND., 75A, NO. 3, 147, 1971
- 420 72 063 TESSIER A FORST W
KINETICS OF HYDROGEN PEROXIDE PYROLYSIS BY MOLECULAR BEAM MASS SPECTROMETRY
J. MASS SPECTRY, ION PHYS., 7, 281, 1971. 23 REFERENCES
- 420 72 064 VINOGRADOV PS KARACHEVTSEV GV
KINETIC ENERGIES OF PROTONS FORMED DURING THE COLLISION OF ELECTRONS WITH VIBRATIONALLY EXCITED
HYDROGEN MOLECULES
HIGH ENERGY CHEM. USSR. (ENGL. TRANS.), 4, 415, 1970. TRANSLATED FROM KHIM. VYS. ENERG., 4, 463, 1970
- 420 72 065 VOMPE GA
MASS SPECTROMETRIC MEASUREMENT OF CONSTANTS OF HIGH TEMPERATURE GAS REACTION RATES

ZH. FIZ. KHIM., 46, 1334, 1972 IN RUSSIAN
- 420 72 066 VON BUNAU G
RECHNEREINSATZ FUER MO-THEORIE UND CHEMISCHE KINETIK (APPLICATION OF COMPUTERS TO MO THEORY AND
CHEMICAL KINETICS)
ANGEW. CHEM., 84, 418, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 393, 1972
- 420 72 067 WESTENBERG AA DE HAAS N
RELATIVE RATE CONSTANTS FOR O + HCO = OH + CO AND O + HCO = H + CO2
J. PHYS. CHEM., 76, 2215, 1972
- 420 72 068 WONG EL BELLES FE
RATE MEASUREMENTS FOR THE REACTION OF HYDROGEN CHLORIDE AND DEUTERIUM CHLORIDE WITH ATOMIC OXYGEN
NTI-34092. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 420 72 069 WORLEY SD COLTHARP RN POTTER AE
RATES OF INTERACTION OF VIBRATIONALLY EXCITED HYDROXYL (UPSILON = 9) WITH DIATOMIC AND SMALL
POLYATOMIC MOLECULES
J. PHYS. CHEM., 76, 1511, 1972
- 430 72 001 AFANSEV YV ROZANOV VE
ENERGY SPECTRUM OF MULTICHARGED IONS IN A LASER PLASMA
ZH. EKSP. TEOR. FIZ., 62, 247, 1972 IN RUSSIAN
- 430 72 002 AGOSTINI P LU VAN M MAINFRAY G
MULTIPHOTON IONIZATION AND DISSOCIATION OF THE HYDROGEN MOLECULE AT 1.06 MU
PHYS. LETT., 36A, 21, 1971
- 430 72 003 ALLEN F
A DESCRIPTION OF LASER PRODUCED PLASMAS. 1. ELECTRON AND ION TEMPERATURES. 2. MICROSCOPIC PROCESSES
1. AD-681904. ERL-R-1462, DECEMBER 1968. 2. AD-689439. ERL-MR-1975, N69-37058, APRIL 1969
- 430 72 004 ALLEN FJ
1. PLANE ELECTROSTATIC ANALYZER FOR LASER PRODUCED PLASMA STUDIES. 2. PRODUCTION OF HIGH ENERGY IONS
IN LASER PRODUCED PLASMAS
REV. SCI. INSTRUM., 42, 1423, 1971 AND J. APPL. PHYS., 43, 2169, 1972
- 430 72 005 BAKOS J KISS A SZABO L TENDLER M
PERTURBATION OF ATOMIC LEVELS NEAR TO THE IONIZATION THRESHOLD IN HIGH INTENSITY LASER FIELD
KFKI-72-42. MAGYAR TUDOMANYS AKADEMIA KOZPONTI FIZIKAI KUTATO INTEZETE, BUDAPEST, JULY 1972. 8P.
CONF-720558-1. FROM 7TH INTERNATIONAL CONFERENCE ON QUANTUM ELECTRONICS, MONTREAL, CANADA, MAY 8,
1972

- 430 72 006 BAKOV I KANTOR I KIM A
PROBE METHOD FOR RECORDING IONS PRODUCED BY LASER RADIATION IN AFTERGLOW DISCHARGE PLASMA
AEC-TR-7324. AKADEMIYA NAUK SSSR, MOSCOW, INSTITUT FIZIKI. TRANSLATION OF REPORT NP-18765. 8P. NTIS
- 430 72 007 BAN VS KNOX BE (2)
1. MASS SPECTROMETRIC STUDIES OF LASER INDUCED VAPORIZATION OF SOLIDS. 2. VAPORIZATION OF ANTIMONY
AND TELLURIUM IN THE VICINITY OF THE CRITICAL POINT
1. THESIS. PENNSYLVANIA STATE UNIV., UNIVERSITY PARK, MARCH 1969. UNIV. MICROFILMS ORDER NO. 70-655.
2. J. CHEM. PHYS., 51, 524, 1969
- 430 72 008 BATANOV VA BUNKIN VV PROKHOROV AM FEDOROV VB
GAS-DYNAMIC STRUCTURE OF A PLASMOID FORMED THROUGH EVAPORATION OF METALS BY STRONG OPTICAL
IRRADIATION
UCRL-TRANS-10645. TRANSLATED FOR UNIV. OF CALIFORNIA, LAWRENCE LIVERMORE LAB., LIVERMORE, FROM
PREPRINT NO. 50, 18P.
- 430 72 009 BERNAL GE READY JF
ENERGY SPECTRA OF LASER PRODUCED IONS
PAPER PRESENTED AT THE 7TH INTERNATIONAL QUANTUM ELECTRONICS CONFERENCE, MONTREAL, MAY 8-11, 1972
- 430 72 010 BOBIN JL TONON G
INTERACTION OF A LASER BEAM WITH A TARGET
BULL. INFORM. SCI. TECH. (PARIS), NO. 160, 23-38, 1971 IN FRENCH
- 430 72 011 BRUBAKER W DERRY C
MASS SPECTROMETER ION SOURCE HAVING A LASER TO CAUSE AUTOIONIZATION OF GAS
UNITED STATES PATENT 3,478,204. NOVEMBER 11, 1969
- 430 72 012 BYKOVSKII YA GRYUKHANDOV MF (1) DEGTAREV VG (1) VASIL'EV NN (2) DEGTARENKO NN (2)
1. ANGULAR DISTRIBUTION OF THE IONS OF A LASER PLASMA. 2. FORMATION OF THE ENERGY SPECTRUM OF THE
IONS OF A LASER PLASMA
JETP LTRS. USSR (ENGL. TRANS.), 14, NO. 4, 157, 1971 AND 15, NO. 6, 217, 1972. TRANSLATED FROM ZH.
EKSP. TEOR. FIZ., PISMA RED., 14, NO. 4, 238, 1971 AND 15, NO. 6, 308, 1972
- 430 72 013 BYKOVSKII YA DEGTARENKO NN ELESIN VF (1) DEGTAREV VG (2)
1. ENERGY SPECTRA OF IONS FORMED BY LASER IRRADIATION OF A SOLID TARGET. 2. ION ENERGIES IN A LASER
PRODUCED PLASMA. 3. POSSIBLE DETERMINATION OF STOICHIOMETRIC COMPOSITION ON MASS SPECTROMETER WITH
LASER ION SOURCE
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 15, 2020, 1971. 2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.),
17, 817, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 42, 658, 1972. 3. ZH. TEKH. FIZ., 42, 1749, 1972 IN
RUSSIAN
- 430 72 014 CARILLON A JAMELOT G SUREAU A
AUTOIONIZING SERIES IN AL(3+) ION SPECTRUM OF LASER PRODUCED PLASMA
PHYS. LTRS, 38A, NO. 2, 91, 1972
- 430 72 015 CARUSO A DE ANGELIS A GATTI G GRATTON R MARTELLUCCI S
ENERGETIC IONS PRODUCED BY SUBNANOSECOND LASER PULSES
PHYS. LTRS, 33A, 336, 1970
- 430 72 016 CERRAI E TRUCCO R
ON THE 'MATRIX EFFECT' IN LASER SAMPLED SPECTROCHEMICAL ANALYSIS
ENERG. NUCL. (MILAN), 15, 581, 1968
- 430 72 017 DE MONTGOLFIER P DUMONT P (2) MILLE Y (2)
1. LASER INDUCED GAS BREAKDOWN SPECTROSCOPIC AND CHEMICAL STUDIES (EXPLOSIONS, GAS CHROMATOGRAPHY,
MASS SPECTROSCOPY) 2. LASER INDUCED GAS BREAKDOWN: SPECTROSCOPIC AND CHEMICAL STUDIES
1. N71-34084. WISCONSIN UNIV., MADISON, THEORETICAL CHEMISTRY INST. 55P. 2. J. PHYS. CHEM., 76, 31,
1972
- 430 72 018 DENTRODER W JANTZ W
INVESTIGATION OF LASER PRODUCED PLASMAS FROM METAL SURFACES
PLASMA PHYS., 12, 691, 1970
- 430 72 019 DUMAS JL
SOURCE D'IONS POUR SPECTROMETRE DE MASSE A LASER
METHOD. PHYS. ANAL., P47, 1967
- 430 72 020 ELOY JF
ANALYSES CHIMIQUES SEMIQUANTITATIVES PAR SPECTROGRAPHIE DE MASSE A'IONISATION PAR BOMBARDEMENT
PHOTONIQUE (LASER A'RUBIS)
J. MASS SPECTRY, ION PHYS., 6, 101, 1971, 19 REFERENCES, TRANSLATED AS AEC-TR-7239 FOR DU PONT DE
NEMOURS (E.I.) AND CO., AIKEN, S.C. 10P. N72-18128. NTIS
- 430 72 021 EVANS RG THONEMAN PC
LASER PRODUCED DISSOCIATION AND IONISATION OF RESIDUAL HYDROCARBONS IN A HIGH VACUUM SYSTEM
PHYS. LTRS, 38A, 398, 1972
- 430 72 022 FANTER DL LEVY RL WOLF CJ
LASER PYROLYSIS OF POLYMERS
ANAL. CHEM., 44, 43, 1972
- 430 72 023 FELSKE A HAGENAH WD LAQUA K
UBER EINIGE ERFAHRUNGEN BEI DER MAKROSPEKTRALANALYSE MIT LASERLICHTQUELLEN. 1. DURCHSCHNITTANALYSE
METALLISCHER PROBEN
SPECTROCHIM. ACTA, 27B, 1, 1972
- 430 72 024 FENNER NC DALY NR
INSTRUMENT FOR MASS ANALYSIS USING A LASER
J. MATER. SCI., 3, 259, 1966
- 430 72 025 GARDNER JW
LASERS, PLASMAS, AND FUSION
J. INST. NUCL. ENG., 13, NO. 3, 67, 1972
- 430 72 026 GILES W BRANDKAMP W NIEGOWSKI J
Q-SWITCH LASER DECOMPOSITION STUDIES ON TEFLON (TFE) AND RTV-560 SILICONE RUBBER
POLYM. PREPR., AMER. CHEM. SOC., DIV. POLYM. CHEM., 9, 474, 1968

- 430 72 027 GOERLICH P MOENKE-BLANKENBUR L
LASERS IN SPECTROMETRY
EXP. TECH. PHYS., 17, 105, 1969
- 430 72 028 GRAY HR
ION AND LASER MICROPROBES APPLIED TO MEASUREMENT OF CORROSION PRODUCED HYDROGEN ON A MICROSCOPIC SCALE
CORROSION, 28, NO. 2, 47, 1972. N72-13470. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 430 72 029 GURAN BT O'BRIEN RJ ANDERSON DH
DESIGN, CONSTRUCTION, AND USE OF A LASER FRAGMENTATION SOURCE IN GAS CHROMATOGRAPHY
ANAL. CHEM., 42, 115, 1970
- 430 72 030 HAGENAH WD KLOCKE K LAQUA K
LIMITS OF DETECTION IN LOCALIZED SPECTROCHEMICAL ANALYSIS WITH LASERS
ORNL-TR-2613-A, TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM PP 634-5 OF 14TH INTERNATIONAL COLLOQUIUM OF SPECTROSCOPY, DEBRECEN, HUNGARY, AUGUST 7-12, 1967. SP, NTIS
- 430 72 031 HARTECK P
INTRODUCTORY COMMENTS TO LASER INTERACTION AND RELATED PLASMA PHENOMENA
PP 1-10 OF LASER INTERACTION AND RELATED PLASMA PHENOMENA, SCHWARZ H.J. (ED.), PLENUM PUBLISHING CORP., NEW YORK, 1971, FROM MEETING, EAST WINDSOR HILL, CONN., JUNE 9, 1969, CONF-690622
- 430 72 032 HONIG RE
MASS SPECTROSCOPY AS AN ANALYTICAL TOOL
ANN. N.Y. ACAD. SCI., 137, 262-83, 1966
- 430 72 033 IVANOVSKI GF VARNAKOV SV
ANALYTICAL CHARACTERISTICS OF THE METHOD OF LASER BEAM PROBING
ZAVOD. LAB., 35, 959, 1969 IN RUSSIAN
- 430 72 034 KANG HB YAMANAKA T YOSHIDA K WAKI M YAMANAKA C
ION TEMPERATURE OF LASER PRODUCED PLASMA
JAP. J. APPL. PHYS., 11, 765, 1972
- 430 72 035 KARN FS FRIEDEL RA SHARKEY AG
1. COAL PYROLYSIS USING LASER IRRADIATION. 2. GASES FROM LASER PYROLYSIS OF ORGANIC MATERIALS. 3. STUDIES OF SOLID AND GASEOUS PRODUCTS FROM LASER PYROLYSIS OF COAL
FUEL, 48, 297, 1969. CHEM. IND. (LONDON), P239, 1970, AND FUEL, 51, 113, 1972
- 430 72 036 KIDDER RE
SOME ASPECTS OF CONTROLLED FUSION BY USE OF LASERS
UCRL-73500, CALIFORNIA UNIV., LIVERMORE, LAWRENCE LIVERMORE LAB., OCT. 1971, 20P, CONF-710826-1, FROM SYMPOSIUM ON FUNDAMENTAL AND APPLIED LASER PHYSICS, ISFAHAN, IRAN, AUG. 29, 1971
- 430 72 037 KIRILLOV VM ULYAKOV PI
RATIO OF LIQUID AND GASEOUS PHASES DURING THE ACTION OF FOCUSED LASER RADIATION ON METALS
N71-36858, NASA-TT-F-13,906, TRANSLATED FOR NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C., SEPT. 1971, FROM FIZ. KHIM. OBRAB. MATER., NO. 1, 8-12, 1971
- 430 72 038 KOOPMAN OM
1. LASER GENERATION OF RAREFIED PLASMA FLOWS. 2. PRECURSOR IONIZATION FRONTS AHEAD OF EXPANDING LASER PLASMAS
1. PP 177-96 OF MODERN OPTICAL METHODS IN GAS DYNAMIC RESEARCH, DOSANJH D.S. (ED.), PLENUM PUBLISHING CORP., NEW YORK, 1971, FROM SYMPOSIUM, SYRACUSE, N.Y., MAY 25, 1970, 2. PHYS. FLUIDS, 15, 56, 1972
- 430 72 039 KORTOV VS MINTS RI PETUKHOV TM
EFFECT OF LASER ACTION ON THE EXOELECTRON EMISSION FROM THE SURFACE OF METALS
AD-727 840, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 430 72 040 KROKHIN ON
HIGH TEMPERATURE AND PLASMA PHENOMENA INDUCED BY LASER RADIATION
REND. SCU. INT. FIS. ENRICO FERMI, 48, 278-305, 1971
- 430 72 041 KROLL N WATSON KM
THEORETICAL STUDY OF IONIZATION OF AIR BY INTENSE LASER PULSES
PHYS. REV., 5A, 1883, 1972. AD-746 414, 1971
- 430 72 042 KRYUKOV PG SENATSKII YV
HIGH POWER LASERS FOR HIGH TEMPERATURE HEATING OF PLASMA
UCRL-TRANS-10578, TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM MOSHCNME LAZERY VYSOKOTEMPORATURNOGO NAGREVA PLAZMY, MOSCOW, 1971, 25P, NTIS
- 430 72 043 LANGER P TONON G FLOUX F DUCAUZE A
LASER INDUCED EMISSION OF ELECTRONS, IONS, AND X-RAYS FROM SOLID TARGETS
IEEE J. QUANTUM ELECTRON., QE-2, 493, 1966
- 430 72 044 LINCOLN KA
1. INSTRUMENTATION FOR TIME-RESOLVED MASS SPECTROMETRY: APPLICATION TO LASER VAPORIZATION OF SOLID MATERIALS. 2. MASS SPECTROMETRIC STUDIES APPLIED TO LASER INDUCED VAPORIZATION OF POLYMERIC MATERIALS
1. AD-669 453, 1968, 2. PURE APPL. CHEM., SUPPL., P323, 1969, PROC. 3RD INT. SYMPOSIUM, ASILOMAR, CALIF., 1967, HIGH TEMPERATURE TECHNOLOGY
- 430 72 045 LOVBERG RH
ANALYSIS OF PLASMA BY LIGHT SCATTERING (REVIEW)
PP 155-76 OF MODERN OPTICAL METHODS IN GAS DYNAMIC RESEARCH, DOSANJH D.S. (ED.), PLENUM PUBLISHING CORP., NEW YORK, 1971, FROM SYMPOSIUM, SYRACUSE, N.Y., MAY 25, 1970
- 430 72 046 MARTELLUCCI S
APPLICATIONS OF LASER PRODUCED PLASMA TO CONTROLLED THERMONUCLEAR FUSION
ENERG. NUCL. (MILAN), 18, 541, 1971
- 430 72 047 MATTIOLI M VERON O
ELECTRON-ION RECOMBINATION IN LASER PRODUCED PLASMA
PLASMA PHYS., 11, 684, 1969

- 430 72 048 MEGRUE GH
DISTRIBUTION AND ORIGIN OF HELIUM, NEON, AND ARGON ISOTOPES IN APOLLO 12 SAMPLES BY IN SITU ANALYSIS
WITH A LASER-PROBE MASS SPECTROMETER
J. GEOPHYS. RES., 76, 4956, 1971
- 430 72 049. MENNICKE H
NEW IONIZATION MODEL FOR LASER PRODUCED PLASMAS BY MEANS OF HIGH ORDER RAMAN-ANTISTOKES LIGHT
PHYS. LETT., 37A, 381, 1971
- 430 72 050 MILLET J
ELECTROMAGNETIC RADIATION COHERENCE ROLE IN GAS PHOTOIONIZATION AND RADIATION SCATTERING IN FOCUSING
A LASER BEAM
FRNC-TH-103, THESIS, AIX-MARSEILLES UNIV., FRANCE, 1970, 103P IN FRENCH, NTIS
- 430 72 051 MOLCHANDY AG
VACUUM ULTRAVIOLET AND X-RAY LASERS
SC-T-722513, TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO, FROM USP. FIZ. NAUK, 106, 165,
1972, 20P
- 430 72 052 MOORE WS
MULTIPURPOSE LASER DEMONSTRATION EXPERIMENT
AMER. J. PHYS., 39, NO. 12, XXX, 1971
- 430 72 053 MOSSOTTI VG GOLIGHTLY DW PHILLIPS WC
LASER ASSISTED SPARK SOURCE MASS SPECTROGRAPHIC TRACE ANALYSIS OF SEMICONDUCTING AND NONCONDUCTING
MATERIALS
FROM 15TH COLLOQUIUM SPECTROSCOPICUM INTERNATIONALE, MADRID, SPAIN, MAY 1969
- 430 72 054 MULAY IL ROY R KNOX BE
TRACE METAL ANALYSIS OF CANCEROUS AND NONCANCEROUS HUMAN TISSUES
J. NAT. CANCER INST., 47, NO. 1, 1, 1971
- 430 72 055 MULCHENK BF RAIZER YP
LASER BREAKDOWN OF MIXTURES OF NEON WITH ARGON AND ROLE OF PHOTOIONIZATION OF EXCITED ATOMS
SOV. PHYS. JETP (ENGL. TRANS.), 33, 349, 1971
- 430 72 056 MULSER P
ELECTROSTATIC FIELDS AND ION SEPARATION IN EXPANDING LASER PRODUCED PLASMAS
PLASMA PHYS., 13, 1007, 1971
- 430 72 057 HUBBIA RD VADOTLA FJ
ANALYSIS OF ORGANIC SALTS BY LASER IONIZATION MASS SPECTROMETRY. SULFONATES, SULFATES, AND
THIOSULFATES
ORG. MASS SPECTRY, 6, 1373, 1972
- 430 72 058 NAMBA S KIM D
LASER INDUCED EMISSION OF IONS FROM CLEAN SURFACES
FROM 8TH INT. CONF. ON PHENOMENA IN IONIZED GASES, CONTRIB. PAPER, VIENNA, 1967.
- 430 72 059 NO AUTHOR
LASERS: APPLICATIONS AND HEALTH HAZARDS
AI-REPORT-8, ARBETSMEDICINSKA INSTITUTET, STOCKHOLM, SWEDEN, 1969, 55P IN SWEDISH
- 430 72 060 OLSTAD RA
MASS SPECTROMETRIC INVESTIGATION OF LASER INDUCED VAPORIZATION OF BINARY SOLID COMPOUNDS
LBL-1177, THESIS, CALIFORNIA UNIV., BERKELEY, DEC. 1972, 198P, NTIS, LAWRENCE BERKELEY LAB.
- 430 72 061 PALMER AJ
STIMULATED SCATTERING AND SELF FOCUSING IN LASER PRODUCED PLASMAS
PHYS. FLUIDS, 14, 2714, 1971
- 430 72 062 PEREZ A
1. LASER PRODUCTION OF MULTIPLY CHARGED HEAVY IONS. 2. ANALYSIS OF THE MULTICHARGED HEAVY IONS
PRODUCED BY LASER IMPACT ON A METALLIC TARGET. APPLICATION TO THE CONSTRUCTION OF A SOURCE
1. BULL. INFORM. SCI. TECH. (PARIS), NO. 160, 39-49, 1971 IN FRENCH. 2. CEA-CONF-2049, COMMISSARIAT
A L'ENERGIE ATOMIQUE, LIMEIL-BREVANNES, FRANCE, CENTRE D'ETUDES, 1972, 11P IN FRENCH.
CONF-720120-4, FROM CONFERENCE ON THE SOURCES OF MULTICHARGED IONS, PARIS, FRANCE, JAN. 28, 1972
- 430 72 063 PETRAKEY A DIMITROV G GEORGIEVA L
LASER MICROSPECTRAL ANALYSIS IN A MAGNETIC FIELD
SPECTROSC. LETT., 2, 97, 1969
- 430 72 064 PETROV AA SKVORTSOV GV
USE OF A LASER FOR SPECTRAL-ISOTOPIC DETERMINATION OF VOLUMETRIC AND SURFACE CONTENT OF OXYGEN IN
METALS
N72-21501, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972
- 430 72 065 PULL II SPENCER W KAISER W
TIME-RESOLVED TEMPERATURE MEASUREMENTS OF A LASER PRODUCED CARBON PLASMA
PHYS. LETT., 37A, 35, 1971
- 430 72 066 RASBERRY S SCRIBNER B MARGOSHES M
LASER PROBE EXCITATION IN SPECTROCHEMICAL ANALYSIS. 1. CHARACTERISTICS OF THE SOURCE. 2.
INVESTIGATION OF QUANTITATIVE ASPECTS
APPL. OPT., 6, 81 AND 87, 1967
- 430 72 067 READY JF
EFFECTS OF HIGH POWER LASER RADIATION
BOOK, ACADEMIC PRESS INC., NEW YORK, 1971, 443P
- 430 72 068 RIGBY LJ KUMAR M
LASER VOLATILIZATION OF SURFACE LAYERS
CHAPTER 14 OF DYNAMIC MASS SPECTROMETRY, VOLUME 3, PRICE, D. (ED.), HEYDEN AND SONS LTD., LONDON,
1972
- 430 72 069 RYKALIN NN UGLOV AA
BULK VAPOR PRODUCTION BY A LASER BEAM ACTING ON A METAL
HIGH TEMP. USSR (ENGL. TRANS.), 9, 522, 1971, N72-18499, 1972, NTIS

- 430 72 070 SCHIRMANN D RABEAU M TONON GF GRELOT P
INTERFEROMETRIC STUDY OF THE EXPANSION OF A PLASMA CREATED BY A LASER
CEA-R-4299. COMMISSARIAT A L'ENERGIE ATOMIQUE, LIMEIL-BREVANNES, FRANCE, CENTRE D'ETUDES, AND
COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE, CENTRE D'ETUDES NUCLEAIRES, APRIL 1972. 65P
IN FRENCH. NTIS
- 430 72 071 SCHOTZAU HJ MAHLER HJ KNEUBUHL FK
MASS SPECTROSCOPY OF MCN LASER PLASMAS WITH H₂ AND D₂
PHYS. LETT. 38A, 286, 1972
- 430 72 072 SCHWARZ HJ HORA H (1)
1. LASER INTERACTION AND RELATED PLASMA PHENOMENA. PROCEEDINGS OF 1ST WORKSHOP, HELD AT EAST WINDSOR
HILL, CONNECTICUT, JUNE 9 - 13, 1969. 2. LINEAR AND NONLINEAR LASER INDUCED EMISSION OF IONS FROM
SOLID TARGETS WITH AND WITHOUT MAGNETIC FIELD
1. BOOK, PLENUM PUBLISHING CORP., NEW YORK, 1971. 520P. CONF-690622. 2. PP 207-22 OF NUMBER 1
- 430 72 073 SKLIZKOV GV
KINETIC AND IONIZATION PHENOMENA IN LASER PRODUCED PLASMAS
PP 235-37 OF LASER INTERACTION AND RELATED PLASMA PHENOMENA. SCHWARZ, H.J. (ED.). PLENUM PUBLISHING
CORP., NEW YORK, 1971. FROM MEETING, EAST WINDSOR HILL, CONN., JUNE 9, 1969. CONF-690622
- 430 72 074 TANIMOTO M KITSUNEZAKI A SEKIGUCHI T
LASER-PLASMA GENERATION FROM A DEUTERIUM ICE PELLETT FREELY FALLING WITHIN A SUPERCONDUCTING MAGNETIC
BOTTLE
J. PHYS. E, 5, 27, 1972
- 430 72 075 TONON GF
1. LASER SOURCES FOR MULTIPLY CHARGED HEAVY IONS. 2. GENERAL CHARACTERISTICS OF HEAVY ION PLASMA
CREATED BY LASER
1. IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 2, 172, 1972. FROM INTERNATIONAL
CONFERENCE ON MULTIPLY CHARGED HEAVY ION SOURCES AND ACCELERATING SYSTEMS, GATLINBURG, TENN., OCT.
25, 1971. CONF-711021. 70 REFERENCES. 2. CEA-CONF-2022. COMMISSARIAT A L'ENERGIE ATOMIQUE,
VILLENEUVE-SAINT-GEORGES, FRANCE, 28P IN FRENCH. CONF-720120-1. FROM CONFERENCE ON THE SOURCES OF
MULTICHARGED IONS, PARIS, FRANCE, JAN. 28, 1972
- 430 72 076 VASTOLA FJ PIRONE AJ GIVEN PH DUTCHER RR
THE ANALYSIS OF COAL WITH THE LASER MASS SPECTROMETER
PP 29-36 OF SPECTROMETRY OF FUELS, CHAPTER 3. PLENUM PRESS, 1970
- 430 72 077 VOROB'EV ED PASYUK AS
SOURCES OF MULTICHARGED IONS. SUMMARY OF THE 14TH ALL-UNION CONFERENCE ON EMISSION ELECTRONICS.
TASHKENT, MAY 1970
JINR-P7-5177. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR REACTIONS, 1970. 32P IN
RUSSIAN. NTIS
- 430 72 078 WEBB MSW WEBB RJ
SEMI-QUANTITATIVE ANALYSIS BY MEANS OF THE LASER MICROPROBE.
ANAL. CHIM. ACTA. 55, NO. 1, 67, 1971
- 430 72 079 WILLIAMS J CARTER S PAVKOV K BOATMAN JB
INVESTIGATIONS OF LASER SKIN HAZARDS
AD-735 794. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 430 72 080 WINTERS HF KAY E
GAS ANALYSIS IN FILMS BY LASER INDUCED FLASH EVAPORATION FOLLOWED BY MASS SPECTROMETRY

J. APPL. PHYS., 43, NO. 3, XXX, 1972
- 430 72 081 WITKOWSKI S
PRODUCTION OF FUSION PLASMAS WITH LASERS
ELEKTROTECH. Z., 92A, NO. 5, 273, 1971 IN GERMAN
- 430 72 082 YAMANE T
LASER MICROEMISSION SPECTROSCOPIC ANALYSIS OF METALS AND NONMETALS
N71-38045. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 430 72 083 ZAKHAROV VP PROTAS IM
MASS SPECTROMETRIC ANALYSIS OF EVAPORATION OF SEMICONDUCTING A(III)B(V) COMPOUNDS BY A LASER
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 17, 528, 1972
- 430 72 084 ZHIRYAKOV BM FANNISO AK YURYSHEV NN (1) RYKALIN NN (2) UGLOV AA (2)
1. OB OSOBNOSTYAKH VZAIKODEISTVIYA S METALLAMI KVAZISTACIONARNOGO IZLUCHENIYA LAZERA (SPECIFICS OF
INTERACTION OF QUASISTABLE LASER RADIATION WITH METALS) 2. METAL DESTRUCTION CAUSED BY FOCUSED
LASER RADIATION
1. AD-732 503. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD,
VA. 22151. 1971. 2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 815, 1971. TRANSLATED FROM ZH.
TEKH. FIZ., 41, 1037, 1971
- 430 72 085 ZHUKOVSKII V PANTELEEV V YANKOVSKII A
SPECTRAL ANALYTICAL FEATURES OF A PLASMA OBTAINED USING A LASER UNDER REGULAR AND QUASISTEADY
GENERATION CONDITIONS
ZH. PRIKL. SPEKTROSK., 11, 13, 1969
- 435 72 001 AFANASEVA LA BARYSHNI IG LEVINA LE
UTILIZATION OF LIQUID EXPERIMENTAL SUBSTANCES IN STUDIES OF MASS SPECTROMETRIC LEAK DETECTION
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 15, 1178, 1972. TRANSLATED FROM PRIB. TEKH. EKSP., NO. 4,
177, 1972
- 435 72 002 FULTZ CR
LEAK DETECTION
Y-DA-4774, UNION CARBIDE CORP., OAK RIDGE, TENN., Y-12 PLANT, JULY 1972. 21P. NTIS
- 435 72 003 KALININ NI MURAVEVA LD PIMENOV VV
INCREASING SENSITIVITY WITH WHICH HELIUM LEAKS ARE DETECTED BY A MASS SPECTROMETRIC LEAK DETECTOR IN
TESTS FOR VACUUM TIGHTNESS USING PROBE METHOD
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 15, 1790, 1972
- 435 72 004 MURGATROYD JL
LEAK RATE DETERMINATION USING K(85)
NUCL. INSTRUM. METHODS, 99, 365, 1972

- 435 72 005 NO AUTHOR
MASS SPECTROMETER HELIUM LEAK DETECTION FOR INSTRUMENTS AND SMALL COMPONENTS
ROT-F-3-11-T(2-72). DIVISION OF REACTOR DEVELOPMENT AND TECHNOLOGY, AEC, WASHINGTON, D.C., FEB.
1972. 12P. RS0
- 435 72 006 VERHEYDEN L KLEIN K CROUE C
MEASUREMENT OF HELIUM LEAKS 10(TO-5) TIMES BETTER THAN THE SENSITIVITY OF A MASS SPECTROMETER LEAK
DETECTOR
VACUUM. 21. NO. 11. 545. 1971
- 435 72 007 VISSERS DR HOLMES JT NELSON PA BARTHOLME LG
HYDROGEN MONITOR FOR DETECTION OF LEAKS IN LMFBR STEAM GENERATORS
NUCL. TECHNOL., 12. NO. 2. 218. 1971. 12 REFERENCES
- 435 72 008 WINGE RK
LEAK DETECTION IN VACUUM SYSTEMS BY A FLUORESCENCE TECHNIQUE
J. VAC. SCI. TECHNOL., 7. 610. 1970
- 440 72 001 AKHMETOV KM BASIN LA BOBYKIN BV
DOUBLE MAGNETIC PRISM FOR A PRECISION BETA SPECTROMETER
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 1248. 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41. 1584.
1971
- 440 72 002 AKIBA T
METHOD OF CORRECTING FRINGING FIELDS OF MAGNETIC DEFLECTION SYSTEMS
JAP. J. APPL. PHYS., 11. NO. 2. 224. 1972
- 440 72 003 BECKER JJ
PERMANENT MAGNETS
SCI. AMER., 223. NO. 6. 92-100. 1970
- 440 72 004 BELYAKOV VA VASILEV VI LITUNOV RN
MAGNETIC SCREEN FOR A 240 CM ISOCHRONOUS CYCLOTRON
ZH. TEKH. FIZ., 42. 197. 1972 IN RUSSIAN
- 440 72 005 BOGDANOV EA SAULIT VR
MAGNETIC FIELD OF STEPPED PLANE-PARALLEL POLE PIECES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16. 860. 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41. 1088. 1971
- 440 72 006 BOSI G
FRINGING FIELD OF ELECTROSTATIC ANALYZERS
REV. SCI. INSTRUM., 43. 475. 1972
- 440 72 007 COOPER RK BEAL JW NEIL VK
METHOD FOR THE DESIGN OF AIR-CORE MAGNETS IN TOROIDAL GEOMETRY
PARTICLE ACCEL., 2. NO. 4. 325. 1971
- 440 72 008 DAVIDOVSKII VG
AIR-CORE AND IRON-CORE MAGNETS AND LENSES WITH WINDINGS OF FINITE THICKNESS FOR ACCELERATORS
BNL-TR-447. TRANSLATED FOR BROOKHAVEN NATIONAL LAB., UPTON, N.Y., FROM REPORT IYAF-40-70. 150P. NTIS
- 440 72 009 DAWSON PH
1. FRINGING FIELDS IN QUADRUPOLE MASS FILTER. 2. FRINGING FIELDS IN QUADRUPOLE-TYPE MASS ANALYZERS
J. MASS SPECTRY, ION PHYS., 6. 33. 1971. 8 REFERENCES. AND J. VAC. SCI. TECHNOL., 9. 487. 1972
- 440 72 010 DE SEREVILLE B OHAYON M PENICAUD JP TURCK B

STUDY AND DEVELOPMENT OF TWO HIGH PERFORMANCE SPECTROMETER MAGNETS
CEA-N-1539. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, JUNE
1972. 71P IN FRENCH
- 440 72 011 ECKSTEIN W VERBEEK H
STIGMATIC FOCUSING HOMOGENEOUS MAGNETIC SECTOR FIELDS
IPP-9/1. MAX-PLANCK-INSTITUT FUR PLASMAPHYSIK, GARCHING, WEST GERMANY, JAN. 1972. 29P IN GERMAN.
NTIS
- 440 72 012 FRENCH H ROE BP GELFAND N STRAND RC WEILHAMMER P
LARGE APERTURE SPECTROMETER MAGNET FOR THE ISA AND THE POSSIBLE USE OF VISUAL DETECTORS
BNL-17142. BROOKHAVEN NATIONAL LAB., UPTON, N.Y., 1972. 5P
- 440 72 013 HALIK EE
MULTIPARTICLE SPECTROMETER MAGNET (MPS)
BNL-17209. BROOKHAVEN NATIONAL LAB., UPTON, N.Y., SP. CONF-720908-2. NTIS. FROM 4TH INTERNATIONAL
CONFERENCE ON MAGNET TECHNOLOGY, UPTON, N.Y., SEPT. 19. 1972
- 440 72 014 KOBAYASHI M TANAKA J BABA H YAMASHITA S
PRECISE CENTER-SETTLING DEVICE FOR QUADRUPOLE MAGNETS
JAP. J. APPL. PHYS., 10. 1195. 1971
- 440 72 015 NO AUTHOR
SEVENTH INTERNATIONAL CONFERENCE ON MAGNETISM, GRENOBLE, FRANCE, SEPTEMBER 14 - 19. 1970
J. PHYS. (PARIS), COLLOQ., 32. NO. 2-3. C1.1-1210. 1971 IN FRENCH AND ENGLISH. CONF-700940. 429
PAPERS
- 440 72 016 NO AUTHOR
MAGNETIC LENS FOR FOCUSING A BEAM OF CHARGED PARTICLES
BRITISH PATENT 1,229,469. APRIL 21. 1971. TO ATOMIC ENERGY OF CANADA LTD. PRIORITY DATE, NOVEMBER
10. 1967. CANADA
- 440 72 017 NO AUTHOR
INCREASING THE ACCURACY OF SPECTRAL ANALYSIS IN MAGNETIC STABILISERS
BOOK. NLL RUSSIAN BOOK NO. R. 71985. 1971. 120P IN RUSSIAN
- 440 72 018 PARZEN G JELLETT K
HIGH FIELD BENDING MAGNET FOR HIGH ENERGY STORAGE RINGS
BNL-16299. BROOKHAVEN NATIONAL LAB., UPTON, N.Y., NOV. 1971. 10P. NTIS
- 440 72 019 POEHLCHEN R
CALCULATION OF MAGNETIC FIELD LINES. INTRODUCTION TO USE OF THE PROGRAM: CALCULATION EXAMPLE
IPP-4/86. INSTITUT FUR PLASMAPHYSIK, G.M.B.H., GARCHING, WEST GERMANY, MAY 1971. 31P IN GERMAN.
NTIS

- 440 72 020 RINGHIOPOL I
STUDY OF THE FIELD OF AN ELECTROMAGNET USED AS A MAGNETIC PRISM
REV. ROUM. PHYS., 16, NO. 3, 349, 1971 IN FRENCH
- 440 72 021 TANAKA M TUDA T
PROPERTIES OF TRIANGULARLY SHAPED MAGNETIC SURFACES
JAERI-MEMO-4532, JAPAN ATOMIC ENERGY RESEARCH INST., TOKYO, AUG. 1971, 19P, NTIS
- 440 72 022 THIESSEN HA KLEIN MM
SPECTROMETER DESIGN AT LASL
LA-DC-72-1119, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 26P, CNF-720908-12, NTIS, FROM 4TH
INTERNATIONAL CONFERENCE ON MAGNET TECHNOLOGY, UPTON, N.Y., SEPT. 19, 1972
- 440 72 023 VASIL'EV MP GORELKIN AS LUZHANSKII SM MOZIN IV SMIRNOV VP
MAGNETOMETER FOR MEASURING CONSTANT AND PULSED MAGNETIC FIELDS
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), P1758, 1970, TRANSLATED FROM PRIB. TEKH. EKSP., NO. 6, 182,
1970
- 440 72 024 VOGEL HF
ELECTRO-MECHANICAL TOLERANCE REQUIREMENTS FOR QUADRUPOLES FROM THE BEAM OPTICAL ABERRATIONS
LA-5076, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, NOV. 1972, 35P, NTIS
- 440 72 025 VOLKOV TF MOROZOV AI
MAGNETIC SYSTEM OF A MULTIPLE LENS ACCELERATOR
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 981, 1971, TRANSLATED FROM ZH. TEKH. FIZ., 41, 1247, 1971
- 445 72 001 ANDERSSON BA
MASS SPECTRA OF ACETYL DERIVATIVES OF HOMOGENEOUS CEREBROSIDES (MONOGLYCOSYL CERAMIDES)
CHEM. PHYS. LIPIDS, 9, NO. 2, 89-112, 1972
- 445 72 002 BAARSCH W H
MASS SPECTRA OF 3-SUBSTITUTED FURANS
ORG. MASS SPECTRY, 6, 367, 1972
- 445 72 003 BAILEY K
MASS SPECTRA OF DIMETHOXYAMPHETAMINE HYDROCHLORIDES
ANAL. CHIM. ACTA, 60, 287, 1972
- 445 72 004 BARKER G ELLIS GP (3)
BENZOPYRONES. 3, SYNTHESIS AND MASS SPECTRA OF SOME OXOPYRANOBENZOXAZOLECARBOXYLIC ESTERS. 4.
PYRANO(1,4)BENZOXAZINONES AND SOME DIHYDRO-BENZOXAZINES: SYNTHESIS, MASS, AND NUCLEAR MAGNETIC
RESONANCE SPECTRA
J. CHEM. SOC. C, P1482 AND P2079, 1971
- 445 72 005 BARNES CS GOLORACK RJ HALBERT EJ
MASS SPECTRA OF KETONES AND DIKETONES CONTAINING PYRIDYL GROUPS
TETRAHEDRON LETS, P705, 1972
- 445 72 006 BARNI E
MASS SPECTRA OF THIAZOLOQUINOLINES
J. HETEROCYCLIC CHEM., 9, 501, 1972
- 445 72 007 BOHM R BILD N HESSE M
NOTIZ UBER DIE MASSENSPEKTREN CYCLISCHER KETALE
HELV. CHIM. ACTA, 55, 630, 1972
- 445 72 008 BOJESSEN IN HOG JH NIELSEN JT
PREPARATION, MASS AND NMR SPECTRA OF SOME ISOTOPIC THIAZOLES
ACTA CHEM. SCAND., 25, 2739, 1971
- 445 72 009 BOSIN TR MAICKEL RP
MASS SPECTRA OF CARCINOGENIC 4-NITROQUINOLINE N-OXIDES
RES. COMMUN. CHEM. PATHOL. PHARMACOL., 3, 493, 1972
- 445 72 010 BOSSHARD H VEITH HJ HESSE M
CHARACTERISTICS OF MASS SPECTRA OF SPERMIDINE DERIVATIVES
ORG. MASS SPECTRY, 6, 325, 1972
- 445 72 011 BOWIE JH WHITE PY
ELECTRON IMPACT STUDIES. 67. MASS SPECTRA OF ALKYL-1,3-DITHIANES
ORG. MASS SPECTRY, 6, 317, 1972
- 445 72 012 BRINDLEY PB NICHOLSON SH
MASS SPECTRA OF CHLOROPRENE DIMERS
CHEM. IND. (LONDON), 5, NO. 3, 118, 1972
- 445 72 013 BRITTAIN EF GEORGE WD COLLINS GC
MASS SPECTRA OF GLYCOLALDEHYDE AND GLYCERALDEHYDE
J. CHEM. SOC. B, P2414, 1971
- 445 72 014 BROOKS CJW
MASS SPECTRA OF SOME CORTICOSTEROID BORONATES
ORG. MASS SPECTRY, 5, 1429, 1971
- 445 72 015 BROWN EV SHAMBHU MB
MASS SPECTRA OF SOME PHENYL PYRIDYL KETONES
ORG. MASS SPECTRY, 6, 479, 1972
- 445 72 016 BUSS CM BRANDT VO SRIVASTA RC
PREPARATION AND MASS SPECTRA OF 2,5-DIARYL-1,4-DITHIINS
J. HETEROCYCLIC CHEM., 9, 887, 1972
- 445 72 017 CAMPBELL MM DUNN AD
MASS SPECTRA OF SOME SULPHONYL AZIDES
ORG. MASS SPECTRY, 6, 599, 1972
- 445 72 018 CHAPMAN DI CHAPMAN JR CLARK J
SYNTHESIS AND MASS SPECTRA OF DANSYL DERIVATIVES OF SOME PHYSIOLOGICALLY IMPORTANT
BETA-PHENYLALKYLAMINE DERIVATIVES
INDIAN J. BIOCHEM., 3, NO. 13, 66, 1972

- 445 72 019 CHIZHOV OS FOSTER AB JARMAN M
MASS SPECTRA OF 6-DEOXY-6-HALOGENO- α -D-GLUCOPYRANOSE TETRAACETATES
CARBOHYD. RES., 22, 37, 1972
- 445 72 020 CLARK J YATES FS (25) MUNAWAR Z (27) TIMMS AW (27)
HETEROCYCLIC STUDIES. 25. MASS SPECTRA OF SOME 4-TRIFLUOROMETHYLPTERIDINE DERIVATIVES. 27. MASS
SPECTRA OF 6-(META AND PARA-SUBSTITUTED-PHENYL)-URACIL AND THIOURACIL DERIVATIVES. 3. MASS SPECTRA
OF SOME 5-TRIFLUOROMETHYLPYRIMIDO(5,4-E)AS-TRAZINES
ORG. MASS SPECTRY, 5, 1419, 1971, J. CHEM. SOC., PERKIN TRANS., II, P233, 1972, AND ORG. MASS
SPECTRY, 6, 467, 1972
- 445 72 021 CLARKE DR WRIGHT ES
SYNTHESIS AND MASS SPECTRA OF SOME 3-ACYLAMINO-2-PIPERIDONES
J. CHEM. SOC. C, P3743, 1971
- 445 72 022 CONNOLLY JS LINSCHIT H
INFRARED AND MASS SPECTRA OF PURINE AND SUBSTITUTED DIHYDROPURINES
J. HETEROCYCLIC CHEM., 9, 379, 1972
- 445 72 023 COTTER JL
MASS SPECTRA OF SOME AZOLES
ORG. MASS SPECTRY, 6, 1071, 1972
- 445 72 024 DE JONGH DC VAN FOSSEN RY
MASS SPECTRA AND PYROLYSES OF O-PHENYLENE SULFITE AND RELATED COMPOUNDS
J. ORG. CHEM., 37, 1129, 1972
- 445 72 025 DEUTSCH J SKLARZ B
MASS SPECTRA OF AMINE PICRATES
ISRAEL J. CHEM., 10, 51, 1972
- 445 72 026 DEWHURST JE
MASS SPECTRA OF SOME TROPANE AND TROPIDINE DERIVATIVES
J. HETEROCYCLIC CHEM., 9, 507, 1972
- 445 72 027 EL-KHADEM M KEMLER LA EL-SHAFA ZM
SYNTHESIS AND MASS SPECTRA OF N-ARYLPYRROLES AND THEIR CHLORINATION PRODUCTS
J. HETEROCYCLIC CHEM., 9, 1413, 1972
- 445 72 028 ENUE M SPIELLER U
MASS SPECTRA OF 11-HYDROXYPREGNANE-3,20-DIONES AND 3-HYDROXYPREGNANE-11,20-DIONES
MONATSH. CHEM., 102, 929, 1971
- 445 72 029 FAL'KO VS
MASS SPECTRA OF SOME PHENYL AND CHLORO SUBSTITUTED THIONAPHTHENES AND THEIR SULPHONES
KHIM. GETEROT. SOEDIN., NO. 3, 326, 1971 IN RUSSIAN
- 445 72 030 GORFINKEL MI POKROVSKII LM
MASS SPECTRA OF N-ALKYLNAPHTHALENES
IZV. SIB. OTD. AKAD. NAUK SSSR, SER. KHIM. NAUK, NO. 3, 130, 1972 IN RUSSIAN
- 445 72 031 GRANTH I
MASS SPECTRA OF PHENOXAPHOSPHINE DERIVATIVES
ISRAEL J. CHEM., 8, 621, 1970
- 445 72 032 GUSTEN H KLASINC L MARSEL J

COMPARATIVE STUDY OF MASS SPECTRA OF STILBENE AND FLUORENE
ORG. MASS SPECTRY, 6, 175, 1972
- 445 72 033 GUYOT J DUCHER S
SPECTRES DE MASSE DE BENZYLIDENE-2 BUTANOLIDES ET DE L'ACIDE HYDROXY-4-BENZYLIDENE-2-BUTANOIQUE
COMPT. REND., SER. C, 273, 422, 1971
- 445 72 034 HAMMERUM S MOLLER J
CHEMISTRY OF HEXAHYDRO-1,2,4,5-TETRAZINES. 2. MASS SPECTRA OF 1,4-DIALKYLHEXAHYDRO-1,2,4,5-
TETRAZINES AND 1,4-DIALKYL-2,5-DIACYLHEXAHYDRO-1,2,4,5-TETRAZINES
ORG. MASS SPECTRY, 5, 1209, 1971
- 445 72 035 HAMMOND K
THE MASS SPECTRA OF SOME QUINONES
THESIS, DOCTORAL, UNIV. OF SALFORD, ENGLAND, 1971, D 2290/72 (NLL F) PP.257, 1971, NLL ANN. BULL.,
2, 4, 23, 1972
- 445 72 036 HECHT SM McDONALD JJ
MASS SPECTRA OF SOME 6-SUBSTITUTED UREIDOPURINES AND N(6)-ACYLADENINES
ANAL. BIOCHEM., 47, 157, 1972, 23 REFERENCES
- 445 72 037 HICKMOTT PM YOXALL CT
ENAMINE CHEMISTRY. 15. MASS SPECTRA OF DIENAMINES
J. CHEM. SOC., PERKIN TRANS., II, P890, 1972
- 445 72 038 HIGASHIN T UCHIDA M HAYASHI E
MASS SPECTRA OF PYRIDO(2,3-D)PYRIMIDINES
CHEM. PHARM. BULL. (TOKYO), 20, 772, 1972
- 445 72 039 HODGES R KENT SB RICHARDS BC
MASS SPECTRA OF SOME PERMETHYLATED ACETYLPEPTIDES
BIOCHIM. BIOPHYS. ACTA, 257, 54, 1972
- 445 72 040 HOLM A JENSEN GM (1) SCHROLL G (2)
1. MASS SPECTRA OF S-(ALKOXYTHIOCARBONYL)THIOHYDROXYLAMINES. 2. MASS SPECTRA OF SOME SIMPLE O,S AND
S,S-DIALKYL DITHIOCARBONATES
ACTA CHEM. SCAND., 26, 205 AND 415, 1972
- 445 72 041 HORVATH G GYIMESI J
MASS SPECTRA OF ANTIMIUCIS, OROXYNIGERICIN AND NIGERICIN
BIOCHEM. BIOPHYS. RES. COMMUN., 44, NO. 3, XXX, 1971
- 445 72 042 INOUE T NAKAHARA Y NIWAGUCHI T
STUDIES ON LYSERGIC ACID DIETHYLAMIDE AND RELATED COMPOUNDS. 2. MASS SPECTRA OF LYSERGIC ACID
DERIVATIVES
CHEM. PHARM. BULL. (TOKYO), 20, 409, 1972

- 445 72 043 IVANDOVSKAYA LU
MASS SPECTRA OF MONOSUBSTITUTED N-HEXYLBENZENES
IZV. SIB. OTD. AKAD. NAUK SSSR. SER. KHIM. NAUK. NO. 3. 122. 1972 IN RUSSIAN
- 445 72 044 JAMIESON WD PEACH KE
MASS SPECTRA OF SOME PENTAFLUOROPHENYLTHIO DERIVATIVES
J. FLUORINE CHEM., 2. NO. 1. 119. 1972
- 445 72 045 KADENTSEV VI GROVER SK CHIZHOV OS
MASS SPECTRA OF GAMMA, DELTA UNSATURATED ESTERS
IZV. AKAD. NAUK SSSR. SER. KHIM., P682. 1972 IN RUSSIAN
- 445 72 046 KARLSSON K PASCHER I SAMUELSSON B.
MASS SPECTRA OF TRIMETHYLSILYL DERIVATIVES OF HOMOGENEOUS CEREBROSIDE (MONOGLYCOSYL CERAMIDES)
CHEM. PHYS. LIPIDS. 9. 230. 1972
- 445 72 047 KHMEL'NITSKII RA KUNINA YA GUSINSKA SL
MASS SPECTRA OF SOME ALKYL AND PHENYL SUBSTITUTED THIASOLES
KHIM. GETEROT. SOEDIN., P1372. 1971 IN RUSSIAN
- 445 72 048 KOSTYANOVSKY RG PLEKHANO VG (1) IGNATOVA NP (1) KHAFIZOV (2) BROVKO VV (2)
MARKOV VI (3) GELLA IN (3)
1. MASS SPECTRA OF 1,2,3-PHOSPHADIAZOLES. 2. MASS SPECTRA OF CEWAR AND KEKULE BENZENES. 3. MASS
SPECTRA OF AZETIDINES
IZV. AKAD. NAUK SSSR. SER. KHIM., P2611. 1971 AND P484. 1972. AND ORG. MASS SPECTRY. 6. 661. 1972
- 445 72 049 LEON NH
MASS SPECTRA OF SOME DITHIOCARBOXYLIC ACID ESTERS
ORG. MASS SPECTRY. 6. 407. 1972
- 445 72 050 MACLEOD JK
MASS SPECTRA OF SOME 7-METHOXYCOUMARINE DERIVATIVES WITH DIFFERING 6-SUBSTITUTED C5 ISOPRENOID
SIDECHAINS
ORG. MASS SPECTRY. 6. 1011. 1972
- 445 72 051 MARUCA R OERTEL M ROSEMAN L
MASS SPECTRA OF PHENYL SUBSTITUTED 1,1-DIMETHYLSILACYCLOPENTANES AND -SILACYCLOPENTADIENES AND OF 1
1,4,4-TETRAMETHYL-2,3,5,6-TETRAPHENYL-1,4-DISILACYCLOHEXADIENE
J. ORGANOMET. CHEM., 32. 253. 1972
- 445 72 052 MIDDLEBIE BS KNIGHTS BA
MASS SPECTRA OF SOME O-METHYLOXIMES OF ALIPHATIC ALDEHYDES AND KETONES
ORG. MASS SPECTRY. 6. 179. 1972
- 445 72 053 MOORE RE BRENNAN MR TODD JS
MASS SPECTRA OF CARBON-13 LABELED 2-HYDROXYNAPHTHOQUINONES
ORG. MASS SPECTRY. 6. 603. 1972
- 445 72 054 MURAWSSI U EGGE H ZILLIKEN F
MASS SPECTRA OF SYNTHETIC METHYLENE AND NONMETHYLENE INTERRUPTED CIS-CIS-METHYLOCTADECADIENATES AS
THEIR TETRA-O-TRIMETHYLSILYLETHER
Z. NATURFORSCH., 26B. 1241. 1971
- 445 72 055 MURTI VV SAMPATH KU SESHADRI TR
MASS SPECTRA STUDY OF 4-PHENYLCOUMARINS
INDIAN J. CHEM., 10. 19. 1972
- 445 72 056 NAKAYAMA M EGUCHI S MATSUO A HAYASHI S HISHIDA S
KATO Y
1. MASS SPECTRA OF SOME METHOXYCOUMARINS. 2. MASS SPECTRA OF PTEROCARPAN DERIVATIVES
MASS SPECTRY. JAPAN. 20. 89 AND 239. 1972 IN JAPANESE
- 445 72 057 NARAYANA CR LALA AK
MASS SPECTRA OF STEROIDAL ALKYL ETHERS. 1.
ORG. MASS SPECTRY. 6. 119. 1972
- 445 72 058 NAVEAU HP
INFRARED, NMR, AND MASS SPECTRA OF THE METHACRYLATES OR METHACRYLATE-ANHYDRIDE OF FIVE PHENOLIC
COMPOUNDS
SPECTROCHIM. ACTA. 28A. 651. 1972
- 445 72 059 NISHIYAMA T
MASS SPECTRA OF 2-ARYL-5-METHYL-1,2,3-OXATHIAZOLIDINE-2-OXIDES
BULL. CHEM. SOC. JAPAN. 45. 928. 1972 IN ENGLISH
- 445 72 060 POPONOVA RV LUKASHENKO IM POLYAKOVA AA RANG SA EIZEN OI
MASS SPECTRA OF NAPHTHALENE AND ITS METHYL DERIVATIVES
Zh. ORG. KHIM., 7. 2032. 1971 IN RUSSIAN
- 445 72 061 POTTS KT ARMBRUSTER R
MASS SPECTRA OF SOME 1,2,4-THIA DIAZOLES
J. HETEROCYCLIC CHEM., 9. 651. 1972
- 445 72 062 POWELL P
BORAZINES. 5. MASS SPECTRA OF SOME 1,3,5-TRIALKYLBORAZINES
J. CHEM. SOC. A. P2951. 1971
- 445 72 063 QUIN LD TOUBE TP
MASS SPECTRA OF 1-METHYL-4-PHOSPHORINANONE AND 1-METHYL-4-PIPERIDONE
J. CHEM. SOC. B. P832. 1971
- 445 72 064 RANG SA
MASS SPECTRA OF NOMENES
Zh. ORG. KHIM., 8. 1993. 1972 IN RUSSIAN
- 445 72 065 SAFE S HUTZINGER O
MASS SPECTRA OF POLYCHLORINATED BIPHENYLS
J. CHEM. SOC. C. P686. 1972. AD-742 588. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT.
OF COMMERCE, SPRINGFIELD, VA. 22151. 1971

- 445 72 066 TAKAHASHI G KATO A
MASS SPECTRA OF 3-METHYLCOLANTHRENE AND SOME RELATED COMPOUNDS
MASS SPECTRY, JAPAN, 20, 229, 1972 IN ENGLISH
- 445 72 067 UK S HIMEL CM DIRKS TF
MASS SPECTRAL PATTERN OF MIREX (DODECACHLOROCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA(CD)PENTALENE) AND
KEPONE (DECACHLOROCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA(CD)PENTALENE-2-ONE) AND ITS APPLICATION IN
RESIDUE ANALYSIS
BULL. ENVIRON. CONTAM. TOXICOL., 7, NO. 4, 207, 1972
- 445 72 068 VATLINA LP VLASOV VM POLYAKOV SA
STRUCTURE AND STABILITY OF NONSOLVATED CATIONS. 1. MASS SPECTRA OF AMINES
ZH. PRIKL. KHIM., 8, 459, 1972 IN RUSSIAN
- 445 72 069 WHITE E KRUEGER VP MCCLOSKEY JA
MASS SPECTRA OF TRIMETHYLSILYL DERIVATIVES OF PYRIMIDINE AND PURINE BASES
J. ORG. CHEM., 37, 430, 1972
- 445 72 070 WRIGHT JLC JAMIESON WD SAFE S
MASS SPECTRA OF SOME TROPOLONES AND TROPOLONE METHYL ETHERS
CAN. J. CHEM., 50, 821, 1972
- 445 72 071 WYLLIE SG
MASS SPECTRA OF SOME STEROIDAL DIOLS
ORG. MASS SPECTRY, 6, 559, 1972
- 445 72 072 YU CK MACLEAN JB
MASS SPECTRA OF SPIROBENZYLISOQUINOLINE ALKALOIDS
CAN. J. CHEM., 49, 3025, 1971
- 450 72 001 ALEXANDER RG
MASS SPECTRAL STUDIES OF UNSATURATED CARBOXYLIC ACIDS. 1. SOME CYCLIC AND ACYCLIC BETA,GAMA
UNSATURATED ACIDS
ORG. MASS SPECTRY, 6, 1153, 1972
- 450 72 002 ALEXANDRU G
FINAL STRUCTURE IN MASS SPECTROMETRIC FRAGMENTATION PROCESSES
J. MASS SPECTRY, ION PHYS., 10, 39, 1972, 11 REFERENCES
- 450 72 003 ANASTASIADIS AG TAMMUNU M
QUESTION OF RING CURRENT IN HETERONINS
J. CHEM. SOC., CHEM. COMMUN., P286, 1972
- 450 72 004 ASBRINK L FRIDH C JONSSON BO LINDHOLM E
RYDBERG SERIES IN SMALL MOLECULES. 16. PHOTOELECTRON, UV, MASS, AND ELECTRON IMPACT SPECTRA OF
PYRIMIDINE. 17. PHOTOELECTRON, UV, MASS, AND ELECTRON IMPACT SPECTRA OF PYRIDAZINE
J. MASS SPECTRY, ION PHYS., 8, 216 AND 229, 1972, 23 REFERENCES IN EACH
- 450 72 005 AST T BEYNON JH COOKS RG
DOUBLY CHARGED IONS FROM LABELED TOLUENES. ISOTOPE EFFECTS, PREFERENCE FACTORS, AND HYDROGEN
RANDOMIZATION
JACS, 94, 1834, 1972
- 450 72 006 AUDIER HE BOTTIN J (10) FELLISUN M (10)
ORIENTATION DE LA FRAGMENTATION EN SPECTROMETRIE DE MASSE PAR INTRODUCTION DE GROUPEMENTS
FONCTIONNELS. 9. PYRAZOLES DERIVES DE CETONES MONOCYCLIQUES. 10. PYRAZOLES DERIVES DE CETO-3
- STEROIDES
BULL. SOC. CHIM. FRANCE, P2911 AND P4027, 1971
- 450 72 007 BENEZRA SA BURSEY MM
1. ORTHO EFFECTS ON ORDERING FACTORS IN MASS SPECTRAL REARRANGEMENTS. LOSS OF KETEN FROM HALOGENATED
PHENYL ACETATES AND ACETANILIDES. 2. ORTHO EFFECTS IN MASS SPECTRA. ALTERATION OF THE
MOLECULAR-ION ENERGY DISTRIBUTION IN DISUBSTITUTED ACETANILIDES. 3. RING HYDROXYL H SCRAMBLING
BEFORE LOSS OF WATER FROM SALICYLIC ACID MOLECULAR IONS
J. CHEM. SOC. B, P1515, 1971, Z. NATURFORSCH., 27A, 670, 1972, AND ORG. MASS SPECTRY, 6, 463, 1972
- 450 72 008 BENEZRA SA
1. SIMPLIFIED QUASIEQUILIBRIUM THEORY APPLIED TO SUBSTITUENT EFFECTS IN THE MASS SPECTRA OF
ACETANILIDES AND PHENYL ACETATES. 2. ELECTROPHILIC SUBSTITUTION IN THE GAS PHASE: AN ION CYCLOTRON
RESONANCE STUDY
THESIS, UNIV. OF NORTH CAROLINA, CHAPEL HILL. UNIV. MICROFILMS CRDR NO. 72-18,378. DISS. ABS., 328,
12, 1, 6877, 1972
- 450 72 009 BENOIT F HOLMES JL
1. METASTABLE PEAK ANALYSIS: A METHOD FOR ELUCIDATING FRAGMENTATION MECHANISMS AND ION STRUCTURES IN
MASS SPECTROMETRY. II. WATER LOSS FROM MOLECULAR ION OF 1,2-CYCLOHEXANEDIOL. 2. MASS SPECTRA OF
CARBOXYLIC ACIDS. IV. CARBOXYL-CARBOSYL INTERACTION IN SOME CYCLOALKANE 1,2-DICARBOXYLIC ACIDS AND
ITS RELATIONSHIP WITH MOLECULAR GEOMETRY. 3. MASS SPECTRA OF CARBOXYLIC ACIDS. V.
CARBOXYL-CARBOSYL INTERACTION IN FRAGMENTATION OF SOME CYCLALKENE 1,2-DICARBOXYLIC ACIDS
CAN. J. CHEM., 49, 1161, 1971, AND ORG. MASS SPECTRY, 6, 541 AND 549, 1972
- 450 72 010 BENILEY IW JOHNSTONE RAH (10)
ASPECTS OF MASS SPECTRA OF ORGANIC COMPOUNDS. 9. EVIDENCE AGAINST CHARGE LOCALIZATION IN THE
FRAGMENTATION OF METHIONINE AND SELENOMETHIONINE. 10. RATIONALIZATION OF A VARIETY OF ELECTRON
IMPACT INDUCED REARRANGEMENTS OF IONS
J. CHEM. SOC. E, P1800 AND P1804, 1971
- 450 72 011 BFRDE HV GOGTE VN KULKARNI PS
SUBSTITUENT EFFECTS IN UNIMOLECULAR ION DECOMPOSITIONS IN GASEOUS PHASE
INDIAN J. CHEM., 9, 1332, 1971
- 450 72 012 BEYNON JH CAPRIOLI RM (1) AST T (1)
1. CHARGE LOCALIZATION: ION KINETIC ENERGY SPECTRA OF PYRAZINE, PYRIMIDINE, AND PYRIDAZINE. 2.
REARRANGEMENT OF THE BENZENE MOLECULAR ION ON ELECTRON IMPACT IONIZATION
ORG. MASS SPECTRY, 6, 273, 1972 AND JACS, 94, 6828, 1972
- 450 72 013 BIGGS OF COUTTS RT HENDERSON DB
SYNTHESIS AND MASS SPECTRAL BEHAVIOUR OF FOUR QUATERNARY AMINO ESTERS RELATED TO ACETYLCHOLINE
CAN. J. PHARM. SCI., 7, NO. 3, 90, 1972

- 450 72 014 BL S
FORMATION AND MASS SPECTRAL FRAGMENTATION OF RITTER PRODUCTS FROM SOME MONOENIC FATTY ACIDS.
LOCATION OF DOUBLE BOND POSITION IN UNSATURATED ACIDS
J. ORG. CHEM., 37, 3114, 1972
- 450 72 015 BLUMENTHAL T BOWIE JH
ELECTRON IMPACT STUDIES. 74. SURVEY OF REARRANGEMENT PROCESSES IN 'DOUBLY-CHARGED ION' MASS SPECTRA
OF AROMATIC COMPOUNDS
ORG. MASS SPECTRY, 6, 1083, 1972
- 450 72 016 BOWIE JH WHITE PY (1) GREAM GE (3) MULAR M (3)
1. LOSS OF ME. FROM THE STILBENE MOLECULAR ION. A REASSESSMENT. 2. ELECTRON IMPACT STUDIES. LXXIII.
LOSS OF C14H12 FROM 1,2,3,4,5-PENTAPHENYLPENTANE-1,5-DIONE MOLECULAR ION. 3. CARBON AND HYDROGEN
SCRAMBLING IN IONS C18H9+NIH(SUB 9+2N)(+); REARRANGEMENTS OF CYCLOOCTATETRAENE DERIVATIVES
ORG. MASS SPECTRY, 6, 135, 1972 AND AUSTRALIAN J. CHEM., 25, 903 AND 1107, 1972
- 450 72 017 BRADY BA O'SULLIVAN WJ DUFFIELD AM
ELECTRON IMPACT PROMOTED FRAGMENTATION OF AURONE EPOXIDES
ORG. MASS SPECTRY, 6, 199, 1972
- 450 72 018 BRENT DA
COMPARATIVE STUDIES OF ELECTRON IMPACT AND PYROLYTIC FRAGMENTATION: O-PHENYLENE CARBONATE, 2-PYRONE,
AND RELATED COMPOUNDS
THESIS. WAYNE STATE UNIV., DETROIT, MICH. UNIV. MICROFILMS ORDER NO. 71-388. DISS. ABS., 31B, 7,
3910, 1971
- 450 72 019 BUDZIKIEWICZ H RULLKOTT J (2) SCHIEBEL HM (2) GROTHJAHN L (3)
MASS SPECTROSCOPIC FRAGMENTATION REACTIONS. 2. A SIMULATED 'ORTHO EFFECT' IN FRAGMENTATION OF
DIPHENYL METHANE DERIVATIVES. 3. DAS SCHEINBAR ANOMALE VERHALTEN VON 3-HYDROXYTETRAHYDROPYRAN
SYSTEMEN
ORG. MASS SPECTRY, 6, 251, 1972 AND TETRAHEDRON, 28, 1881, 1972
- 450 72 020 BURSEY MM NUNNALLY RL (1) PARKER CE (2)
1. A P-FLUORO LABELING STUDY OF PARTIAL CARBON SCRAMBLING BEFORE FRAGMENTATION IN SOME FIVE MEMBERED
HETEROCYCLES CONTAINING NITROGEN. 2. MASS SPECTRAL FRAGMENTATION OF HALOGENATED PHENETOLS.
ABSENCE OF AN ORTHO EFFECT
J. ORG. CHEM., 37, 3032, 1972 AND TETRAHEDRON LETS, P2211, 1972
- 450 72 021 BUU-HOI NP JACQUIGN P MANGANE M
SYNTHESIS, PROPERTIES, AND ELECTRON IMPACT FRAGMENTATION OF FLUORINATED 1-ARYLBIGUANIDES
J. CHEM. SOC. C, P278, 1972
- 450 72 022 CABLE J DJERASSI C (1) KAGAL SA (2) MACLEOD JK (2)
1. MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. CCIII. THE COURSE OF A TRIPLE
HYDROGEN MIGRATION IN ESTERS OF TRIMELLITIC ANHYDRIDE. 2. ORTHO EFFECTS IN MASS SPECTROMETRIC
FRAGMENTATION PROCESSES
JACS, 93, 3905, 1971 AND ORG. MASS SPECTRY, 6, 301, 1972
- 450 72 023 CAMPBELL MM RUNQUIST D
FRAGMENTATION MECHANISMS IN MASS SPECTROMETRY
J. CHEM. EDUC., 49, 104, 1972
- 450 72 024 CANT E VANDEWALLE M VERZELE M (11)
STUDIES IN ORGANIC MASS SPECTROMETRY. 9. FRAGMENTATION OF ALKYL SUBSTITUTED 1,3-CYCLOPENTANEDIONES.
10. FRAGMENTATION OF SUBSTITUTED 1,3-CYCLOPENTANEDIONES AND 1,2,4-CYCLOPENTANETRIONES, RELATED TO
HOP BITTER ACIDS. 11. FRAGMENTATION OF HOP BITTER ACIDS DERIVATIVES HAVING A FIVE MEMBERED RING
- STRUCTURE
ORG. MASS SPECTRY, 5, 1197, 1971, AND 6, 681 AND 977, 1972
- 450 72 025 CAPRIOLI RM REYNOLDS JH AST T
CHARGE LOCALIZATION. 1. ION KINETIC ENERGY SPECTRA OF ORTHO, META, AND PARA-PHENYLENEDIAMINE
ORG. MASS SPECTRY, 5, 417, 1971
- 450 72 026 CASSAN J
ETUDE DE LA FRAGMENTATION DE SEMICARBAZONES TERPENIQUES
ORG. MASS SPECTRY, 6, 1023, 1972
- 450 72 027 CEDER O ANDERSSON JE
STUDY OF MASS SPECTROMETRICAL FRAGMENTATION PATTERNS OF 1,3,6-TRIAZACYCL(3.3.3)AZINES
ACTA CHEM. SCAND., 26, 611, 1972
- 450 72 028 CHARNOCK GA JACKSON AH
MASS SPECTRA OF TETRAHYDROISOQUINOLINES: A NOVEL CONCERTED FRAGMENTATION
J. CHEM. SOC., PERKIN TRANS., II, P856, 1972
- 450 72 029 CHIVERS T
FRAGMENTATION AND REARRANGEMENT PROCESSES IN MASS SPECTRA OF PERHALOGENO-AROMATIC COMPOUNDS. 5.
PENTAFLUOROPHENYL DERIVATIVES OF TIN AND RELATED COMPOUNDS
J. CHEM. SOC. A, P2556, 1971
- 450 72 030 CHRISTIANSEN GD LIGHTNER DA
MASS SPECTRAL FRAGMENTATION OF SPIRO KETONES AND OLEFINS
J. ORG. CHEM., 36, 948, 1971
- 450 72 031 CONE C DEWAR MJ GOLDEN R MASELES F RONA P
ABUNDANT REARRANGEMENT IONS IN MASS SPECTRA OF BENZENEBORONIC ACID DERIVATIVES
J. CHEM. SOC. D, P1522, 1971. AD-740 420. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT.
OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 450 72 032 CONDE CA COLLIN JE
1. ELECTRON IMPACT INDUCED FRAGMENTATION OF 1,3,6-DIOXATHIOCANES. 2. IONIZATION AND DISSOCIATION OF
CYCLIC ETHERS AND THIOETHERS BY ELECTRON IMPACT. A COMPARISON BETWEEN 1,3-DIOXOLANE, 1,3-
DITHIOLANE, AND 1,3-OXATHIOLANE
ORG. MASS SPECTRY, 6, 341 AND 415, 1972
- 450 72 033 CONSTANTIN E
SOME FORMS OF THE ISOTOPE EFFECTS OBSERVED IN MASS SPECTRA
STUD. CERCET. FIZ., 24, 753, 1972 IN ROMANIAN

- 450 72 034 COOKS RG SETSER DW JENNINGS K JONES S
ENERGY PARTITION IN FRAGMENTATION OF ORGANIC IONS: BENZALDOXINE METHYL ETHERS
J. MASS SPECTRY, ION PHYS., 7, 493, 1971, 17 REFERENCES
- 450 72 035 CORVAL M MASCLLET P
ISOTOPIC EFFECTS IN ELECTRON IMPACT FRAGMENTATION OF DEUTERATED METHANOLS
ORG. MASS SPECTRY, 6, 511, 1972 IN FRENCH
- 450 72 036 COSANDEY M
POSSIBILITY OF RELATING MASS SPECTRA TO RADIOLYTIC FRAGMENTATION BY MATRIX CALCULATIONS
CHIMA (AARAU), 25, NO. 6, 191, 1971 IN FRENCH
- 450 72 037 COTTER JL
ELECTRON IMPACT AND THERMAL FRAGMENTATION PATTERNS OF SOME CYCLIC FLUOROETHERS
ORG. MASS SPECTRY, 6, 345, 1972
- 450 72 038 COULTER AW FENSELAU CC
VARIATION OF FRAGMENTATION WITH RING SIZE IN CYCLIC ALPHA-AMINO ACIDS
ORG. MASS SPECTRY, 6, 105, 1972
- 450 72 039 DALE AJ WERINGA WD WILLIAMS DH
COMPARISON OF UNIMOLECULAR DECOMPOSITION PATHWAYS OF SOME C7 AND C8 IONS IN GAS PHASE
ORG. MASS SPECTRY, 6, 501, 1972
- 450 72 040 DANIELS PJJ
MASS SPECTRAL STUDIES ON AMINOCYCLOITOL ANTIBIOTICS
J. CHEM. SOC. C, P1629, 1971
- 450 72 041 DAS KG THAYAMANAVAN B
MASS SPECTRAL STUDIES OF SOME FRUCTOSE CONTAINING OLIGOSACCHARIDE PERMETHYL ETHERS
ORG. MASS SPECTRY, 6, 1063, 1972
- 450 72 042 DAWBORNE JS
ELECTRON IMPACT INDUCED FRAGMENTATION OF SOME METHYLATED HISTAMINES
ORG. MASS SPECTRY, 6, 211, 1972
- 450 72 043 DAWSON RM GILLIS RG
1. (3,4-DI)THIOPHENE SYNTHESIS AND SCRAMBLING ON ELECTRON IMPACT. 2. MASS SPECTRA OF ALKYL BENZENES.
II. FORMATION OF (M - METHYL)(+) FROM TRI AND TETRAMETHYLBENZENES
1. AUSTRALIAN J. CHEM., 25, 1221, 1972. AD-746 780, 1971. 2. AD-766 320. NATIONAL TECHNICAL
INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972. 9P
- 450 72 044 DEKKERS AMJO NIBBERIN NM SPECKAMP WN
STEREOCHEMICAL ASPECTS IN THE MASS SPECTRA OF N-TS-3-AZA-7-CARBETHOXYBICYCLO(3,3,1)NONANES. EVIDENCE
FOR ANCHIMERIC ASSISTANCE IN EXPULSION OF A TOSYL RADICAL
TETRAHEDRON, 28, 1829, 1972
- 450 72 045 DEMAYO A GREEN DA
CALCULATED RELATIVE INTENSITIES OF THE FIRST EIGHT ISOTOPIC LINES IN MASS SPECTRA OF COMPOUNDS
CONTAINING CARBON, HYDROGEN, AND CHLORINE ATOMS
J. CHEM. EDUC., 49, 397, 1972
- 450 72 046 DIAS JR SHEIKH YM DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 200. EFFECT OF DOUBLE BONDS UPON
MCLAFFERTY REARRANGEMENT OF CARBONYL COMPOUNDS. 216. ANOMALOUS CLEAVAGE IONS IN BIFUNCTIONAL
COMPOUNDS RESULTING FROM PARTICIPATIVE INTERACTION

JACS, 94, 473, 1972 AND ORG. MASS SPECTRY, 6, 385, 1972
- 450 72 047 DICKINSON RJ WILLIAMS DH
REARRANGEMENT REACTIONS IN AROMATIC SYSTEMS UPON ELECTRON IMPACT: THE CASES OF PYRIDINE AND
FLUOROBENZENE
J. CHEM. SOC., PERKIN TRANS., II, P1363, 1972
- 450 72 048 DIMMEL DR SEIPENBUSCH JM
AN UNUSUAL STEREOSPECIFIC ELIMINATION OF WATER IN THE MASS SPECTRA OF BICYCLO(2,2,1)HEPTAN-2-OLS
JACS, 94, 6211, 1972
- 450 72 049 DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 212. ELECTRON IMPACT INDUCED TRIPLE
HYDROGEN REARRANGEMENTS AND OTHER FRAGMENTATIONS OF ALKYL VINYL ETHERS AND THIOETHERS. 214.
ELECTRON IMPACT INDUCED FRAGMENTATION OF SIMPLE ACETYLENES
JACS, 94, 3107 AND 3115, 1972
- 450 72 050 DOOLEY J KENDALL RF
MASS SPECTRA AND ANALYTICAL CORRELATIONS FOR 32 ALKYLARYL SULFIDES
PB-206 910. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 450 72 051 DOUGHERTY RC BERTOREL HE DEBERTOR MM
MASS SPECTRA AND THERMOCHEMISTRY OF METHYL PHENANTHRENES. A CONTRIBUTION TO ANALOGY BETWEEN MASS
SPECTRAL AND THERMAL FRAGMENTATION REACTIONS
ORG. MASS SPECTRY, 5, 1321, 1971
- 450 72 052 DUFFIELD AM BUCHARDT D
THERMAL FRAGMENTATION OF QUINOLINE AND ISOQUINOLINE N-OXIDES IN THE ION SOURCE OF A MASS
SPECTROMETER
ACTA CHEM. SCAND., 26, 2423, 1972
- 450 72 053 EADON G POPOV S (I) DJERASSI C
1. MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. CCXI. EFFECT OF STRUCTURAL
VARIATIONS ON ELECTRON IMPACT INDUCED FRAGMENTATIONS OF STEROID HYDROCARBONS. 2. MECHANISM OF THE
DOUBLE MCLAFFERTY REARRANGEMENT
JACS, 94, 1282 AND 8938, 1972
- 450 72 054 FALCH E NATVIG T
MASS SPECTRA OF PYRIMIDINES. 2. STRUCTURE DETERMINATION OF 2,3-DIHYDROTHIAZOLO(3,2-A)PYRIMIDINONES
ACTA CHEM. SCAND., 24, 1423, 1970
- 450 72 055 FEIL VJ SUGIHARA JM
SUBSTITUENT EFFECTS IN THE MASS SPECTRAL FRAGMENTATION OF ARYL ESTERS
ORG. MASS SPECTRY, 6, 265, 1972

- 450 72 056 FENSELAU C CHANDLER HA PYLES M
CARBON MONOXIDE EXPULSION ON ELECTRON IMPACT: HYBRID FRAGMENTATION OF ALPHA-KETO HEMITHIOKETALS
ORG. MASS SPECTRY. 5. 697, 1971
- 450 72 057 FRIDH C ASBRINK L JONSSON BO LINDHOLM E
RYDBERG SERIES IN SMALL MOLECULES. 14. PHOTOELECTRON, UV, MASS, AND ELECTRON IMPACT SPECTRA OF
S-TRIAZINE. 15. PHOTOELECTRON, UV, MASS, AND ELECTRON IMPACT SPECTRA OF PYRAZINE. 18.
PHOTOELECTRON, UV, MASS, AND ELECTRON IMPACT SPECTRA OF S-TETRAZINE
J. MASS SPECTRY, ION PHYS., 8. 85, 1972. 44 REFERENCES. 8. 101, 1972. 36 REFERENCES, AND 9. 485,
1972. 38 REFERENCES
- 450 72 058 GRANTH I LEVY JB
1. SUBSTITUENT EFFECTS IN MASS SPECTRAL FRAGMENTATION OF SOME PHENOXAPHOSPHINIC ACIDS. 2. SYNTHESIS
AND NOVEL MASS SPECTRAL REARRANGEMENTS OF 10-PHENYLPHENOXAPHOSPHINE AND SOME OF ITS DERIVATIVES
J. CHEM. SOC. B, P2391, 1971 AND J. CHEM. SOC., PERKIN TRANS., II, P697, 1972
- 450 72 059 GREEN MM MCGREW JG MOLDOVAN JM
ELECTRON IMPACT INDUCED 1,4 ELIMINATION. BARTON REACTION IN DISGUISE
JACS. 93. 6700, 1971
- 450 72 060 GROSS O KELM J
MASS SPECTROMETRIC FRAGMENTATION OF BETA-ALKOXYPROPIONITRILS
Z. NATURFORSCH., 27B. 327, 1972 IN GERMAN
- 450 72 061 GRUTZMACHER HF PUSCHMANN M (6) FECHNER KH (7)
ZUM MECHANISMUS MASSENSPEKTROMETRISCHER FRAGMENTIERUNGSREAKTIONEN. 6. ETHYLEN ELIMINIERUNG AUS
MOLEKUL-IONEN DES TETRALINS. 7. MASSENSPEKTREN VON STELLUNGS UND STEREOISOMEREN DER BICYCLO(2.2.1)
HEPTANDIOL E UND IHRER METHYLATHER
CHEM. BER., 104. 2079, 1971 AND TETRAEDRON, 27. 5011, 1971
- 450 72 062 HAMMING MC FOSTER NG
INTERPRETATION OF MASS SPECTRA OF ORGANIC COMPOUNDS
BOOK. ACADEMIC PRESS, NEW YORK, 1972. 710P
- 450 72 063 HARRISON AG FINNEY CD SHERK JA
FACTORS DETERMINING RELATIVE IONIC ABUNDANCES IN COMPETING FRAGMENTATION REACTIONS
ORG. MASS SPECTRY. 5. 1313, 1971
- 450 72 064 HARVEY DJ LAURIE WA REED RI
ELECTRON IMPACT AND MOLECULAR DISSOCIATION. 20. SOME STUDIES ON INDOLOSTERANES. 21. SOME STUDIES ON
SUBSTITUTED INDOLOSTERANES
ORG. MASS SPECTRY. 5. 1183 AND 1189, 1971
- 450 72 065 HARVEY DJ HORNING MG VOURES P
1. SOME STEREOCHEMICAL FACTORS IN FORMATION OF REARRANGEMENT IONS IN MASS SPECTRA OF TRIMETHYLSILYL
DERIVATIVES OF STERIDAL PHOSPHATES. 2. MASS SPECTRA OF THE TRIMETHYLSILYL DERIVATIVES OF
GLYCEROPHOSPHORIC ACIDS. INTER AND INTRAMOLECULAR REARRANGEMENTS OF SILICONIUM IONS
TETRAEDRON, 27. 4231, 1971 AND J. CHEM. SOC. C, P1074, 1972
- 450 72 066 HAVLICEK SC BRENNAN MR SCHEUER PJ
INFLUENCE OF STEREOCHEMISTRY ON MASS SPECTRA OF SOME TRIMETHYLSILYLATED PYRANOSSES
ORG. MASS SPECTRY. 5. 1273, 1971
- 450 72 067 HEANEY M PRICE AP
THERMAL CYCLISATION OF TRANS-O-FLUOROCINNAMIC ACIDS TO COUMARINS. APPARENT SIMILARITY BETWEEN MASS
SPECTRAL AND THERMAL FRAGMENTATIONS
J. CHEM. SOC., PERKIN TRANS., I, P2911, 1972
- 450 72 068 HERTZBERG M WHITE G OLFKY RS
O-ISOFLUORAMINOALKANES: MASS SPECTRAL DECOMPOSITION OF ISOMERIC PROPANES
J. PHYS. CHEM., 76. 60, 1972
- 450 72 069 HERZBERG G
SPECTRA AND STRUCTURES OF MOLECULAR IONS
QUART. REV., 25. NO. 2. 201, 1971
- 450 72 070 HIROTA K
THEORIES FOR MASS SPECTRA AND PROBLEMS RELATING TO STRUCTURAL ANALYSIS OF ORGANIC COMPOUNDS. REVIEW
MASS SPECTRY, JAPAN, 20. 101, 1972 IN JAPANESE. 22 REFERENCES
- 450 72 071 HOLMES JL MCGILLIVRAY D
1. A FEATURE OF FRAGMENTATION MECHANISM OF EXO-2-NORBORNYL CHLORIDE. STERESELECTIVE HYDROGEN ATOM
ABSTRACTION REVEALED BY METASTABLE ION STUDIES. 2. MASS SPECTRA OF ISOMERIC HYDROCARBONS. 1.
NORBORNENE AND NORTRICYCLOLENE: THE MECHANISMS AND ENERGISTICS OF THEIR FRAGMENTATIONS
ORG. MASS SPECTRY. 5. 1339 AND 1349, 1971
- 450 72 072 HORDONIA JM WRIGHT J INDICATO N
MASS SPECTRAL FRAGMENTATION OF 2-ARYL-N,N'-DIMETHYL-1,3-IMIDAZOLIDINES AND 2-ARYL-1,3-DIOXOLANES
ORG. MASS SPECTRY. 5. 1287, 1971
- 450 72 073 HORTON D
SPECIFIC ISOTOPIC LABELING OF SUGARS: APPLICATIONS IN MASS SPECTRAL ANALYSIS. MASS SPECTRUM OF 1,6-
ANHYDRO-2-3-O-ISOPROPYLDENE-BETA-D-TALOPYRANOSE
ORG. MASS SPECTRY. 6. 1121, 1972
- 450 72 074 HORVATH G KUSZMANN J
MECHANISM OF ELIMINATION REACTIONS IN ALPHA,DELTA DIOLS AND THEIR HALOGENATED DERIVATIVES UNDER
ELECTRON IMPACT
ORG. MASS SPECTRY. 6. 447, 1972
- 450 72 075 HOWE I WILLIAMS DH
USE OF DEUTERIUM ISOTOPE EFFECTS IN ESTABLISHING MASS SPECTRAL FRAGMENTATION MECHANISMS
J. CHEM. SOC. D, P1195, 1971
- 450 72 076 HUNTER PW WEBB GA
SPECTROSCOPIC AND MASS SPECTRAL INVESTIGATION OF SOME DIHYDRO AND TETRAHYDRO-1,5-BENZODIAZEPHINES
AND THIAZEPINES
TETRAEDRON, 28. 5573, 1972

- 450 72 077 ILLE U KUNDEL H
PYROLYTIC AND MASS SPECTROMETRIC FRAGMENTATION OF ALIPHATIC SIDE-CHAINS IN ALKYLRESORCINOLS
J. CHROMATOGR., 69, 59, 1972
- 450 72 078 JULIEN J
ETUDE DE LA FRAGMENTATION DES BIS-ALKYLTHIO-3,5-CYANO-4-ISOTHIAZOLES
COMPT. REND., SER. C, 274, 1871, 1972
- 450 72 079 KALIR A SALI E
FORMAL 1,1 ELIMINATION OF HYDROGEN CYANIDE FROM O-NITROBENZYL CYANIDE UNDER ELECTRON IMPACT
J. CHEM. SOC., PERKIN TRANS., II, P2262, 1972
- 450 72 080 KAMAL A HAIDER Y QURESHI AA
COMPARATIVE STUDIES OF MASS SPECTRA OF SOME DISUBSTITUTED PYRROLES AND PIPERAZINE DERIVATIVES, 6.
PSIR, 14, NO. 3, XXX, 1971
- 450 72 081 KARLINER J SELTZER R
MASS SPECTRAL FRAGMENTATION PATTERNS OF VARIOUS 6-SUBSTITUTED 2,4-BIS-(N-AMINDANILIND)-S-TRIAZINES
J. HETEROCYCLIC CHEM., 8, 629, 1971
- 450 72 082 KARPATI A MANDELBA A
STUDIES IN MASS SPECTROMETRY, 16. STRIKING DIFFERENCE BETWEEN MASS SPECTRA OF STEREOISOMETRIC CYCLIC
ANHYDRIDES
ORG. MASS SPECTRY, 5, 1345, 1971
- 450 72 083 KATCHER ML
VARIABLE SCALE FOR MASS SPECTRAL RELATIVE ION ABUNDANCE MEASUREMENT
J. CHEM. EDUC., 49, 567, 1972
- 450 72 084 KATO Y HIRAO I
MASS SPECTRAL FRAGMENTATION OF 3-(5-NITRO-2-FURYL)-1,2,4-TRIAZOLES
BULL. CHEM. SOC. JAPAN, 46, 1876, 1972
- 450 72 085 KATOH M JAEGER DA DIERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS, 212. ELECTRON IMPACT INDUCED TRIPLET
HYDROGEN REARRANGEMENTS AND OTHER FRAGMENTATIONS OF ALKYL VINYL ETHERS AND THIOETHERS
JACS, 94, 3107, 1972
- 450 72 086 KHMEINITSKIY BA VYSOTSKIY VI GORODNER II
DISSOCIATIVE IONIZATION OF PHENYL DERIVATIVES OF INDOLE, 21.
Zh. Org. Khim., 7, 1514, 1971 IN RUSSIAN
- 450 72 087 KINGSTON DGI
MASS SPECTROMETRY OF ORGANIC COMPOUNDS, 6. ELECTRON IMPACT SPECTRA OF FLAVONOID COMPOUNDS
TETRAHEDRON, 27, 2691, 1971
- 450 72 088 KOGAMI K KONAKAHA T YAMADA K
ELECTRON IMPACT ELIMINATION OF RCOOH FROM MONOTERPENE ACETATE AND PROPIONATE
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., 74, NO. 11, XXX, 1971
- 450 72 089 KONAROV VN TIKHOMIROV MV
THERMAL ISOTOPE EFFECTS IN MASS SPECTRA OF COMMON AND DEUTERATED HYDROCARBONS
Zh. Fiz. Khim., 46, 1329, 1972 IN RUSSIAN
- 450 72 090 KOSSANYI J CHUCHE J (1) DUFFIELD AM (1) FLURTH B (2) MORIZUR JP (2)
1. MASS SPECTROMETRY, VI. FRAGMENTATION OF UNSATURATED 2,2-DIMETHYL-1,3-DIOXOLANES. 2. MASS
SPECTROMETRY OF ACETATES OF BICYCLO(2,2,1) SERIES, KETENE ELIMINATION AND TYPICAL FRAGMENTATION
ORG. MASS SPECTRY, 5, 1409, 1971 AND 6, 593, 1972
- 450 72 091 KOSTYANOVSKY RG KHAFAZOV K
MASS SPECTROMETRIC REGISTRATION OF 1H-AZIRINES AS DOUBLY CHARGED AROMATIC IONS
IZV. AKADE. NAUK SSSR, SER. KHIM., P483, 1972 IN RUSSIAN
- 450 72 092 KUBELKA V MITERA J VALENTA M
EXPERIMENTS IN FURAN SERIES, 13. INTERACTION OF SUBSTITUENTS ON FURAN NUCLEUS CAUSED BY ELECTRON
IMPACT
COLLECT. CZECH. CHEM. COMMUN., 36, 4082, 1971
- 450 72 093 KUZNETSO NM
ON KINETICS OF POLYATOMIC MOLECULE DISSOCIATION UNDER CONDITIONS OF NONUNIFORM DISTRIBUTION OF
VIBRATORY ENERGY
DOKL. AKADE. NAUK SSSR, 202, 1367, 1972
- 450 72 094 LACEY MJ MACDONALD CG SHANNON JS
LOSS OF CH2O AND H2O BY STEPWISE MECHANISMS IN MASS SPECTROMETRY
ORG. MASS SPECTRY, 5, 1391, 1971
- 450 72 095 LAI K MILLER B
REARRANGEMENT AND CLEAVAGE PROCESSES IN CROWDED CYCLOHEXADIENYL CARBONIUM IONS
J. Org. Chem., 37, 2505, 1972
- 450 72 096 LANTHIER GF MILLER JM
FRAGMENTATION AND REARRANGEMENT PROCESSES IN MASS SPECTRA OF PERHALOGENO-AROMATIC COMPOUNDS, 7.
PENTAFLUOROPHENYL DERIVATIVES OF NITROGEN
ORG. MASS SPECTRY, 6, 89, 1972
- 450 72 097 LEE CC SUTHERLAND RG THOMSON BJ
HYDROGEN TRANSFER IN MASS SPECTRAL FRAGMENTATION OF CYCLOHEXADIENYLCYCLOPENTADIENYL IRON
TETRAHEDRON LETS, P2625, 1972
- 450 72 098 LENGUEL I ULISS DB (1) GREENE FD (1) AARONSON MJ (2)
1. ELECTRON IMPACT INDUCED FRAGMENTATION OF THREE MEMBERED HETEROCYCLES, III.
N-T-ALKYL AZIRIDINE-1-CARBOXYAMIDES, 2. ELEKTRONENSTOSS INDUZIERTE UMLAGERUNGEN VON
DIBENZOAZASTANNINEN
J. CHEM. SOC., PERKIN TRANS., II, P1415, 1972 AND ANGEW. CHEM., 84, 542, 1972
- 450 72 099 LEW JB WHITEHEAD GW GRANOTH I
PREPARATION, IR, UV, NMR, AND MASS SPECTRAL FRAGMENTATIONS OF NEW SUBSTITUTED PHENOXAPHOSPHINIC
ACIDS
ISRAEL J. CHEM., 10, 27, 1972

- 450 72 100 LIEDTKE RJ DJERASSI C GERRARD AF (1) DIEKMAN J (2)
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 215. BEHAVIOR OF PHENYL SUBSTITUTED
ALPHA,BETA UNSATURATED KETONES UPON ELECTRON IMPACT. PROMOTION OF HYDROGEN REARRANGEMENT
PROCESSES. 218. ELECTRON IMPACT INDUCED BEHAVIOUR OF TERPENOID ESTERS OF THE JUVENILE HORMONE
CLASS
J. ORG. CHEM., 37, 776 AND 2111, 1972
- 450 72 101 LONGEVIALLE P TASSEL M ZYLBER N
ALCALOIDES STEROIDQUES. 126. REPARTITION DE LA CHARGE DANS LA FRAGMENTATION EN SPECTROMETRIE DE
MASSE DE 4,4'-DIMETHYL STEROIDES FONCTIONNALISES EN 3
COMPT. REND., SER. C, 272, 2073, 1971
- 450 72 102 MAQUESTIAU A
FRAGMENTATION OF 1,2,4-TRIAZOLE UNDER ELECTRON IMPACT
ORG. MASS SPECTRY, 6, 1139, 1972
- 450 72 103 MASUDA Y
1. ON THE FLUCTUATION OF M/E OF 2 OF HYDROCARBON MASS SPECTRA. 2. ANOMALOUS PEAKS CAUSED BY EXISTING
WATER
MASS SPECTRY, JAPAN, 19, 144 AND 150, 1971 IN JAPANESE
- 450 72 104 MCADOD DJ MCLAFFERTY FW (2,3) PARKS TE (2) BENTE PF (3)
1. STRUCTURE AND REACTIVITIES OF SELECTED IONS GENERATED IN THE MASS SPECTROMETER. 2. ISOMERIZATION
AND DECOMPOSITION REACTIONS OF C₄H₈O₂(+) IONS. 3. ION CYCLOTRON RESONANCE SPECTROSCOPY IN
STRUCTURE DETERMINATION. II. PROPYL IONS
1. THESIS, CORNELL UNIV., ITHACA, N.Y. UNIV. MICROFILMS ORDER NO. 71-17,111. DISS. ABS., 328, 1,
126, 1971, 2 AND 3. JACS, 94, 1601 AND 2027, 1972
- 450 72 105 MCALLISTER T
1. A DIRECT METHOD FOR OBTAINING ELECTRON IMPACT SPECTRA FROM AN ICR MASS SPECTROMETER. 2. ELECTRON
IMPACT EXCITATION SPECTRA IN AN ION CYCLOTRON RESONANCE MASS SPECTROMETER
CHEM. PHYS. LETT., 13, 602, 1972 AND J. CHEM. PHYS., 57, 3353, 1972
- 450 72 106 MCLAFFERTY FW MCADOD DJ SMITH JS KIRNFELD R
ENOLIC C₃H₅O₂(+) ION FORMED FROM ALIPHATIC KETONES
JACS, 93, 3720, 1971. AD-733 144, CORNELL UNIV., ITHACA, N.Y. 1970. NTIS
- 450 72 107 MEAD TJ WILLIAMS DH
CLASSIFICATION OF ISOMERIC C₄H₉O₂(+) ION ACCORDING TO THEIR UNIMOLECULAR GAS PHASE DECOMPOSITIONS
J. CHEM. SOC., PERKIN TRANS., II, P876, 1972
- 450 72 108 METTNER M PREMUZIC E LIPSKY SR
STRUCTURAL EFFECTS IN THE MASS SPECTRA OF SOME CHLORO-NITRO STEROIDS AND STEROIDAL OXIMES
STERIODS, 19, 493, 1972
- 450 72 109 MEYERSON S FIELDS EK
1,4 ELIMINATION OF ARENES IN MASS SPECTRA
ORG. MASS SPECTRY, 5, 1227, 1971
- 450 72 110 MIKHAILO VI GELMAN YA ZATSELYA AM
MASS SPECTRUM INTERPRETATION AIDED BY SELECTOR OF MOLECULAR SPEEDS
ZH. FIZ. KHIM., 45, 1260, 1971 IN RUSSIAN
- 450 72 111 MITERA J KUBELKA V
A STUDY OF FRAGMENTATION OF CAPROLACTAM AND ITS METHYL DERIVATIVES UNDER ELECTRON IMPACT
ORG. MASS SPECTRY, 5, 651, 1971
- 450 72 112 MOLENAAR-LANGEV TA NIBBERING NM DE BOER TJ
MASS SPECTROMETRY OF ARALKYL COMPOUNDS WITH A FUNCTIONAL GROUP. 12. UNORTHODOX ELIMINATION OF
HYDROGEN CYANIDE FROM HYDROGEN RANDOMIZED MOLECULAR IONS OF BENZYL CYANIDE. AND OF N-, M- AND
P-CYANOBENZYL CYANIDE. 13. STRUCTURE OF DECOMPOSING MOLECULAR ION OF M-HYDROXYBENZYLALCOHOL.
ELUCIDATED BY O(18) AND D LABELING (SIX MEMBERED VS SEVEN MEMBERED RING)
ORG. MASS SPECTRY, 5, 725, 1971 AND TETRAHEDRON, 28, 1943, 1972
- 450 72 113 NAKATA M TATEMATSU A YOSHIZUMI H (2)
1. A MECHANISM OF MASS SPECTRAL KETENE ELIMINATION FROM PHENYL ACETATES. 2. MASS SPECTROMETRY OF
TAUTOMERIC COMPOUNDS. IV. STRUCTURE OF MOLECULAR IONS OF 4-HYDROXY COUMARINS
ORG. MASS SPECTRY, 5, 1343, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P1924, 1972
- 450 72 114 NEETER R NIBBERING NM
MASS SPECTROMETRY OF PYRIDINE COMPOUNDS. 2. HYDROGEN EXCHANGE IN MOLECULAR IONS OF ISONICOTINIC AND
NICOTINIC ACIDS AS A FUNCTION OF INTERNAL ENERGY. 3. REARRANGEMENTS IN THE MOLECULAR ION OF THE
METHYL ESTER OF ISONICOTINIC ACID
ORG. MASS SPECTRY, 5, 735, 1971 AND TETRAHEDRON, 28, 2575, 1972
- 450 72 115 NELSON DR SUKKESTA DR ZAYLSKIE RG
MASS SPECTRA OF METHYL BRANCHED HYDROCARBONS FROM EGGS OF THE TOBACCO HORNWORM
J. LIPID RES., 13, 413, 1972
- 450 72 116 NO AUTHOR
OSTI AWARDS GRANTS. MASS SPECTRAL DATA
INFORMATION, 3, 4-5, 225, 1971
- 450 72 117 NO AUTHOR
A METHOD FOR DERIVING THE MASS SPECTRA, NOTES AND NEWS
J. SCI. IND. RES., 30, NO. 2, 89, 1971
- 450 72 118 NO AUTHOR
2ND SUPPLEMENT TO COMPILATION OF MASS SPECTRAL DATA
ORG. MASS SPECTRY, 6, 601, 1972
- 450 72 119 NOMURA Y FURUSAKI F TAKEUCHI Y
ORGANIC MASS SPECTROMETRY. 1. RETRO-1,3 DIPOLAR CYCLOADDITION REACTION INDUCED BY ELECTRON IMPACT
J. ORG. CHEM., 37, 502, 1972
- 450 72 120 PEROV AA KUPRIYAN SE GORFINKE MI
STRUCTURAL DIFFERENCES OF IONS DETERMINED BY A STUDY OF THEIR DISSOCIATION PROCESSES DURING
MOLECULAR COLLISIONS
ZH. FIZ. KHIM., 45, 1789, 1971 IN RUSSIAN

- 450 72 121 PETERSSON G
1. MASS SPECTROMETRY OF HYDROXYDICARBOXYLIC ACIDS AS TRIMETHYLSILYL DERIVATIVES: REARRANGEMENT
FRAGMENTATIONS. 2. MCCLAFFERTY TYPE REARRANGEMENT OF A TRIMETHYLSILYL GROUP IN SILYLATED HYDROXY
CARBONYL COMPOUNDS
ORG. MASS SPECTRY, 6, 565 AND 577, 1972
- 450 72 122 POPOV S DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 213. EFFECT OF RING SIZE UPON THE
ELECTRON IMPACT INDUCED BEHAVIOR OF STEROIDAL KETONES
J. ORG. CHEM., 37, 155, 1972
- 450 72 123 REISCH J NIEMEYER OH
PHOTOLYSE UND MASSENSPEKTREN N-SUBSTITUIERTER BETA-KETOSAUREAMIDE
TETRAEDRON, 27, 4637, 1971
- 450 72 124 RELLES HM SCHLUENZ RW
DICHLOROMALEIMIDE CHEMISTRY. 1. SUBSTITUENT EFFECTS ON CARBON-13 NMR AND MASS SPECTRA
J. ORG. CHEM., 37, 1742, 1972
- 450 72 125 RENNEKAMP ME PERRY WO COOKS RG
SUBSTITUENT SCRAMBLING IN THIOPHENE MOLECULAR ION
JACS, 94, 4985, 1972
- 450 72 126 RICHTER WJ BURLINGAME AL BURSEY JM (1) LIEHR JG (2)
1. RING CONTRACTION UPON ELECTRON IMPACT AS A FUNCTION OF RING SIZE: MASS SPECTROMETRIC
FRAGMENTATION OF ACYLATED CYCLIC AMINES. 2. EXTENT OF ELECTRON IMPACT INDUCED RING CONTRACTION IN
FORMATION OF (M-CH3) FRAGMENTS FROM N-ACETYLPIPERIDINE
ORG. MASS SPECTRY, 5, 1295, 1971 AND 6, 443, 1972
- 450 72 127 RIDGE DP BEAUCHAMP JL
CHEMICAL CONSEQUENCES OF STRONG HYDROGEN BONDING IN THE REACTIONS OF ORGANIC IONS IN THE GAS PHASE.
INDUCED FRAGMENTATION OF ALIPHATIC ALCOHOLS
JACS, 93, 5925, 1971
- 450 72 128 ROBINSON GE
MASS SPECTRA OF NITROPHENYL(PHENYL)METHANES: FORMATION OF AN M-17 ION FROM THE META AND PARA ISOMERS
J. CHEM. SOC. B, P1273, 1971
- 450 72 129 ROWLAND CG
ON THE EXISTENCE OF A SPIN-FORBIDDEN PREDISSOCIATION IN THE MASS SPECTRUM OF ISOCYANIC ACID
J. PHYS. CHEM., 76, 2636, 1972
- 450 72 130 SAFE S HUTZINGER O (2) COOK M (2)
1. ELECTRON IMPACT INDUCED REARRANGEMENTS OF SUBSTITUTED BIPHENYLS. 2. ION KINETIC ENERGY AND MASS
SPECTRA OF ISOMERIC MONO AND DICHLORONAPHTHALENES
ORG. MASS SPECTRY, 5, 1221, 1971. AD-735 543, 1971 AND J. CLIN. SOC., CHEM. COMMUN., P260, 1972
- 450 72 131 SAUERS RR
SOME ASPECTS OF THE PHOTOCHEMICAL AND MASS SPECTRAL BEHAVIOR OF BRIDGEMAN ACETONE DERIVATIVES
JACS, 93, 5520, 1971
- 450 72 132 SCHILDCROFT SM GEBELEIN CG
ELECTRON IMPACT INDUCED ION FRAGMENTATION OF POLYFUNCTIONAL N-CYCLOHEXYLCARBAMATES
ORG. MASS SPECTRY, 6, 485, 1972
- 450 72 133 SCHULTE-ELTE KH WILLHALM B THOMAS AF

MASS SPECTROMETRY AND ORGANIC ANALYSIS. 14. PHOTOLYSIS AND MASS SPECTRA OF MEDIUM AND LARGE RING
KETONES FROM C9 TO C16
HELV. CHIM. ACTA, 54, 1755, 1971
- 450 72 134 SHANSHAL M
INTERNAL ROTATION BARRIERS OF CARBONIUM IONS
J. CHEM. SOC., PERKIN TRANS., II, P335, 1972
- 450 72 135 SHAPIRO M
DYNAMICS OF DISSOCIATION. 1. COMPUTATIONAL INVESTIGATION OF UNIMOLECULAR BREAKDOWN PROCESSES
J. CHEM. PHYS., 56, 2582, 1972
- 450 72 136 SHAW SJ
MASS SPECTROMETRY OF HOP COMPOUNDS. 3. MASS SPECTRA OF SUBSTITUTED 1,3-CYCLOPENTANEDIONES DERIVED
FROM HOP CONSTITUENTS
ORG. MASS SPECTRY, 6, 873, 1972
- 450 72 137 SHEEHAN M SPANGLER RJ DJERASSI C IKEDA M (1)
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 202. INTERACTION OF REMOTE FUNCTIONAL
GROUPS IN ACYCLIC SYSTEMS UPON ELECTRON IMPACT. 209. FUNCTIONAL GROUP INTERACTION AFTER ELECTRON
IMPACT. ANOMALOUS ETHER CLEAVAGE IN BIFUNCTIONAL BENZYOXYETHERS
J. ORG. CHEM., 36, 1796 AND 3526, 1971
- 450 72 138 SHEIKH YM DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 217. ELECTRON IMPACT PROMOTED
FRAGMENTATION OF O-METHYL OXIMES OF SOME ALPHA,BETA UNSATURATED KETONES AND METHYL SUBSTITUTED
CYCLOHEXANONES
CAN. J. CHEM., 50, 2776, 1972
- 450 72 139 SASAKI S ISHIDA Y
STRUCTURE ANALYSIS OF ALKANES AND ALKENES BY PATTERN RECOGNITION OF LOW RESOLUTION MASS SPECTRA
JAPAN ANALYST, 21, 1029, 1972 IN JAPANESE
- 450 72 140 SHIOTANI S MITSUHASHI K
MASS SPECTRAL STUDIES OF AZA AND DIAZABENZOBICYCLOALKANES. 1. SOME ASPECTS OF MASS SPECTROMETRY OF
1,3 BRIDGED 1,2,3,4-TETRAHYDROISOQUINOLINES. 2. SOME ASPECTS OF MASS SPECTROMETRY OF 1,3 BRIDGED
1,2,3,4-TETRAHYDRONAPHTHALENES. 2,4 BRIDGED 1,2,3,4-TETRAHYDROISOQUINOLINES, AND 1,3 BRIDGED 1
2,3,4-TETRAHYDROQUINOLINES
CHEM. PHARM. BULL. (TOKYO), 20, 1 AND 1980, 1972
- 450 72 141 SHUPE WD
1. ALKYL-OXYGEN FISSION IN THE REACTION OF TRITYL ACETATE-O(18) WITH PHENYL MAGNESIUM BROMIDE. 2.
MASS SPECTRA OF TRITYL SUBSTITUTED COMPOUNDS: LOSS OF C(12) FROM (C6H5)3C(13)H VIA ELECTRON
IMPACT
THESIS, OKLAHOMA STATE UNIV., STILLWATER, UNIV. MICROFILMS ORDER NO. 70-21,481. DISS. ABS., 318, 8,
4594, 1971

- 450 72 142 SOOTHILL RJ WILLIAMS LR
1. VALENCY CHANGES OF SULPHUR IN MASS SPECTRA OF SULPHONES. 2. ARYL VS ALKYL AND VINYL MIGRATION IN THE MASS SPECTRA OF SULPHONE DERIVATIVES
ORG. MASS SPECTRY, 6, 141 AND 1145, 1972
- 450 72 142 STEBBINGS ML TAYLOR JW
PHOTOIONIZATION MASS SPECTROMETRY. 2. CONTRASTING FRAGMENTATION OF TOLUENE BY PHOTONS AND BY ELECTRONS
J. MASS SPECTRY, ION PHYS., 9, 471, 1972. 42 REFERENCES.
- 450 72 144 STEINBERG FS
ORGANIC MASS SPECTROMETRY: SUBSTITUENT EFFECTS AND FRAGMENTATION MECHANISMS
THESIS, UNIV. OF CALIFORNIA, LOS ANGELES, UNIV. MICROFILMS ORDER NO. 72-1506, DISS. ABS., 328, 6, 3270, 1971
- 450 72 145 TAJIMA S NIWA Y WASADA N
INTERPRETATION OF MASS SPECTRA BY SIMPLE LCAD NO CALCULATION. 2. DERIVATIVES OF BENZENE AND CHLOROBENZENE
BULL. CHEM. SOC. JAPAN, 45, 1250, 1972
- 450 72 146 TAMAGAKI S OAE S
EFFECT OF RING SIZE ON THE MASS SPECTRAL FRAGMENTATION OF CYCLIC SULFOXIDES
BULL. CHEM. SOC. JAPAN, 45, 1767, 1972
- 450 72 147 TATEMATSU A NAGA S SAKURAI H
CHARGE MIGRATION THROUGH SIGMA BONDS IN A FRAGMENT ION FROM 5,5'-DIALERYL-2,2'-SPIROBIINDAN UNDER ELECTRON IMPACT
BULL. CHEM. SOC. JAPAN, 44, 3450, 1972
- 450 72 148 TOMER KB TURK J (2) SHAPIRO RH (2)
1. AN INVESTIGATION OF SOME REARRANGEMENT REACTIONS IN ORGANIC MASS SPECTROMETRY. 2. ANCHIMERIC ASSISTANCE IN ELECTRON IMPACT REACTIONS: HOMOAALLYLIC SYSTEMS
1. THESIS, UNIV. OF COLORADO, BOULDER, UNIV. MICROFILMS ORDER NO. 71-5943, DISS. ABS., 318, 9, 5276, 1971. 2. ORG. MASS SPECTRY, 6, 235, 1972
- 450 72 149 TOU JC RODIA RM
THERMALLY AND ELECTRON IMPACT INDUCED REARRANGEMENTS OF DIMETHYLTHIOCARBAMATES IN GASEOUS PHASE
ORG. MASS SPECTRY, 6, 493, 1972
- 450 72 150 TURK J SHAPIRO RH
FORMATION OF BENZOYL IONS: COMPLICATED SIMPLE CLEAVAGE REACTION
ORG. MASS SPECTRY, 6, 189, 1972
- 450 72 151 UCCELLA NA HOWE I WILLIAMS DH
MECHANISTIC INFORMATION FROM DEUTERIUM ISOTOPE EFFECTS ON MASS SPECTRAL PROCESSES: ELIMINATION OF KETENE FROM ACETANILIDES AND SUBSEQUENT LOSS OF HNC
ORG. MASS SPECTRY, 6, 229, 1972
- 450 72 152 ULISS DB
MASS SPECTRA OF SMALL RING HETEROCYCLES AND THEIR PRECURSORS: QUESTIONS OF CHARGE MIGRATION AND VALENCE ISOMERIZATION
THESIS, ST. JOHN'S UNIV., UNIV. MICROFILMS ORDER NUMBER 71-30,235, DISS. ABS., 328, 5, 2615, 1971
- 450 72 153 UNGER FG
METHOD FOR CORRECTING MASS SPECTRA OBTAINED ON DEVICES WITH VARIOUS TYPES OF SCAN
ZAVOD. LAB., 37, 1354, 1971 IN RUSSIAN
- 450 72 154 VAN FOSSEN RY
COMPARATIVE STUDIES OF ELECTRON IMPACT INDUCED AND PYROLYTIC FRAGMENTATION: 1. AROMATIC CYCLIC DIAZOKETONES. 2. AROMATIC CYCLIC SULFITES
THESIS, WAYNE STATE UNIV., DETROIT, MICH. UNIV. MICROFILMS ORDER NO. 71-458, DISS. ABS., 318, 7, 3939, 1971
- 450 72 155 VAN LEAR GE
AN UNUSUAL REARRANGEMENT OBSERVED IN MASS SPECTRA OF SEVERAL 1-ALKYL-2-SUBSTITUTED-5-NITROIMIDAZOLES
ORG. MASS SPECTRY, 6, 1117, 1972
- 450 72 156 VON MINDEN DL
I. ELECTRON IMPACT FRAGMENTATION OF 2,4,6-TRIS(DIAZO)-1,3,5-TRIKETOCYCLOHEXANE. II. MASS SPECTRA OF SMALL RING ORGANIC HETEROCYCLES. III. MASS SPECTRA OF TRIMETHYLTIN P-SUBSTITUTED PHENYL SULFIDES
THESIS, UNIV. OF NEBRASKA, LINCOLN, UNIV. MICROFILMS ORDER NO. 71-2935, DISS. ABS., 318, 8, 4600, 1971
- 450 72 157 WAHLBERG I KARLSSON K ENZELL CR
MASS SPECTRAL FRAGMENTATION REACTION CHARACTERISTIC OF 11-OXO-ALPHA-AMYRIN AND 11-OXO-BETA-AMYRIN DERIVATIVES
ACTA CHEM. SCAND., 25, 3192, 1971
- 450 72 158 WANKENNE H MOMIGNY J
MONOMOLECULAR AND COLLISION INDUCED PREDISSOCIATION IN MASS SPECTRUM OF N2(+)
J. MASS SPECTRY, ION PHYS., 7, 227, 1971. 30 REFERENCES
- 450 72 159 WELLS VA BARRY MJ
ARGON CRACKING PATTERN USING A MONOPOLE MASS SPECTROMETER
J. VAC. SCI. TECHNOL., 8, 754, 1971
- 450 72 160 WERINGA WD SINNIGE MJ JANSSEN MJ
CARBON SKELETAL REARRANGEMENTS IN 2-PHENYLTHIOPHENE AND 2,5-DIPHENYLTHIOPHENE UNDER CONDITIONS OF ELECTRON IMPACT
ORG. MASS SPECTRY, 5, 1399, 1971
- 450 72 161 WHITE E TSUBOYAMA S MCCLOSKEY JA
MACROCYCLIC TRANSITION STATES IN MASS SPECTROMETRY. LONG CHAIN ALPHA,OMEGA-BIS(TRIMETHYLSILYL) ETHERS
JACS, 93, 6340, 1971
- 450 72 162 WILSON MH MCCLOSKEY JA
INTERMOLECULAR HYDROGEN TRANSFER REACTIONS IN THE MASS SPECTRA OF DIALKYL MALONATES
JACS, 94, 3865, 1972

- 450 72 163 WOODGATE PD MAYER KK DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 214. ELECTRON IMPACT INDUCED
FRAGMENTATION OF SIMPLE ACETYLENES
JACS, 94, 3115, 1972
- 450 72 164 YAMADA K KONAKAWA T IIDA H
MASS SPECTROMETRY OF DYES. 4. ELECTRON IMPACT REACTION OF NITROPHENYL PHENYL ETHERS AND THEIR CHARGE
MIGRATION
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971
- 450 72 165 YEO ANH DJERASSI C
MASS SPECTROMETRY IN STRUCTURAL AND STEREOCHEMICAL PROBLEMS. 210. EVIDENCE FOR TRANSITION STATES OF
DIFFERENT RING SIZES IN LOSS OF C₄H₈ FROM PHENYL N-BUTYL ETHER IN MASS SPECTROMETER
JACS, 94, 482, 1972
- 450 72 166 ZELLER KP MEIER H MULLER E
1. ELECTRON IMPACT INDUCED WOLFF REARRANGEMENT. MASS SPECTROMETRIC MEASUREMENTS OF DIAZO COMPOUNDS.
2. ZUM MECHANISMUS DER WOLFF UMLAGERUNG. 3. ELEKTRONENSTOSS INDUZIERTE FRAGMENTIERUNG VON 1,2,3-
THIADIAZOLEN. II. ZUR STRUKTUR DER (M-N₂)(+) IONEN DER 1,2,3-THIADIAZOLE UND DES 5-PHENYL-1,2,3,4-
THIATRIAZOLS
ANN. CHEM., 749, 178, 1971, CHEM. BER., 105, 1875, 1972, AND TETRAEDRON, 28, 1353, 1972
- 450 72 167 ZHIGULEV KK KHMEL'NITSKII RA SOKOLOV SD
DISSOCIATIVE IONIZATION OF 3,5-DIMETHYL-4-HALOGENISOXAZOLES
KIN. GETEROT. SOEDIN., P737, 1971 IN RUSSIAN
- 455 72 001 BLANC C DEVILLE A HERVE J
SPECTROGRAPHED RPE A SATURATION STABILISES EN PUISSANCE ET EN FREQUENCE
J. PHYS. E, 5, 343, 1972
- 455 72 002 ENGE HA BETZ HO BUECHNER WW
PROPOSED RECOIL MASS SPECTROGRAPH FOR DETECTING SUPERHEAVY NUCLEI
NUCL. INSTRUM. METHODS, 97, 449, 1971
- 455 72 003 EWALD H
PARABOLA SPECTROGRAPHS WITH 2 AND 3 FIELDS AND THE PLANNED FISSION PARTICLE PARABOLA SPECTROGRAPH AT
GRENOBLE
PP RA-97 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 455 72 004 GRENNBERG B RYTZ A
ABSOLUTE MEASUREMENTS OF ALPHA RAY ENERGIES
METROLOGIA, 7, NO. 2, 65, 1971
- 455 72 005 PALETTO S GOUTTE R GUILLAUD C
REALISATION D'UN SPECTROGRAPHE DE MASSE-ANALYSEUR DE VITESSE PERMETTANT L'ETUDE EN ULTRA VIDE DE L'
EMISSION IONIQUE D'UNE CIBLE METALLIQUE. (DESIGN OF A MASS SPECTROGRAPH FOR VELOCITY ANALYSIS: THE
STUDY OF ION EMISSION FROM A METALLIC TARGET IN ULTRAHIGH VACUUM)
VIDE, 26, NO. 152, 63, 1971
- 455 72 006 TAYLOR L
1. FEASIBILITY STUDY FOR DOUBLE FOCUSING MASS SPECTROGRAPH. 2. SOLAR WIND MASS SPECTROGRAPH
1. N69-14669, FINAL PROGRESS REPORT, APRIL - SEPT. 1968. ELECTRO-OPTICAL SYSTEMS INC., PASADENA,
CALIF. 58P. 2. N71-21469, FINAL REPORT, AUG. 1969 - AUG. 1970. DEC. 1970. 79P. NTIS.
NASA-CR-114948, EOS-4044
- 460 72 001 ABASHIDZE IV ARTEMCHUK VG VETSHEIN VE GOL'DENFELD IE
MASS SPECTROMETER FOR PRECISION ISOTOPIC ANALYSIS OF HYDROGEN
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 540, 1971. TRANSLATED FROM PRIB. TEKH. EKSP., 14, NO.
2, 182, 1971
- 460 72 002 ALLARD P CARETTE JD
ELECTROSTATIC SPECTROMETER. II.
CAN. J. PHYS., 49, 2132, 1971 IN FRENCH, ORNL-TR-2610, TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN.
13P. NTIS
- 460 72 003 ALPATEV YS DUBINSKI IN OLKHOVSK VL
MASS SPECTROMETER FOR ANALYZING SOLIDS
PRIB. TEKH. EKSP., NO. 3, 159, 1972 IN RUSSIAN
- 460 72 004 ANDERSEN CA RODEN HJ (1) ROBINSON CF (1) HINTHORNE JR (2)
1. APPLICATION OF THE ION MICROPROBE MASS ANALYZER. 2. ION MICROPROBE MASS ANALYZER
1. PP 215-24 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969. 2. SCIENCE, 175, 853, 1972. 26
REFERENCES
- 460 72 005 ARIKAWA T
1. ELECTRON MODEL EXPERIMENT OF PERFECT FOCUSING MASS SPECTROMETER. 2. MOLECULAR BEAM SCATTERING
APPARATUS WITH PERFECT FOCUSING MASS SPECTROMETER
MASS SPECTRY, JAPAN, 19, 1 AND 166, 1971 IN JAPANESE (1) AND ENGLISH (2)
- 460 72 006 ARMBRUSTER P EIDENS J (1) GRUETER JW (1) LAWIN H (1)
1. FAST SEPARATION OF HEAVY PARTICLES BY ELECTROMAGNETIC GAS FILLED MASS SEPARATORS. 2. GAS FILLED
MAGNETIC SEPARATORS
1. PP 520-34 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969. 2. PP 255-69 OF
BMW-FBK-70-28, FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC ISOTOPE
SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 460 72 007 AULINGER F TRINKS H
AUFBAU UND ERPROBUNG EINES VIERFACH-MONOPOL MASSENSPEKTROMETERS (DEVELOPMENT AND TESTING OF QUAMOPOL
MASS SPECTROMETER)
N72-23484, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1970
- 460 72 008 BARIL M FORTIN M
INCREASE OF RESOLVING POWER BY THE MULTIPASSAGE MASS SPECTROMETER
PP 194-7 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969

- 460 72 009 BARNETT CF RAY JA
CALIBRATED NEUTRAL-ATOM SPECTROMETER FOR MEASURING PLASMA ION TEMPERATURES IN THE 0.165 TO 10 KEV
ENERGY REGION
NUCL. FUSION, 12, 65, 1972
- 460 72 010 BAUM JJ HARMAN RW MARONDE RG HORNBUCKLE TA
DESIGN OF THE PARTICLES EXPERIMENT SUBSYSTEM OF THE APOLLO LUNAR SUBSATELLITE
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-19, NO. 1, 632, 1972, FROM NUCLEAR SCIENCE
SYMPOSIUM, SAN FRANCISCO, CALIF., NOV. 3, 1971, CONF-711111
- 460 72 011 BIRTLES AB MELLOR DJ
OPTIMUM DIMENSIONS OF A NEW TYPE OF MONOPOLE MASS ANALYZER
J. PHYS. E, 5, 1203, 1972
- 460 72 012 BLAUTH EW WEISSMANN R
WIDE-ANGLE MASS SPECTROMETER
PP 225-30 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 460 72 013 BRACHER J VON ROHDEN HJ
A SIMPLE MASS SPECTROMETER OF HIGH SCANNING RANGE
REV. SCI. INSTRUM., 43, 692, 1972
- 460 72 014 CARRICO JP
SIMPLE QUADRUPOLE MASS SPECTROMETER
J. VAC. SCI. TECHNOL., 9, 1255, 1972
- 460 72 015 DANGELO JD HERZOG RF
MASS SPECTROMETER FOR D-REGION STUDIES, 2, FLIGHT PROTOTYPE
N69-28972, FINAL REPORT, GCA TECHNOLOGY DIV., GCA CORP., BEDFORD, MASS. 76P
- 460 72 016 DAY M
A MINIATURE MASS SPECTROMETER INCORPORATING A CHANNEL MULTIPLIER
CPE, NO. 86, P50, 1971, FROM 4TH INTERNATIONAL SYMPOSIUM ON RESIDUAL GASES IN ELECTRON TUBES,
FLORENCE, ITALY, APRIL 14, 1971, ITALIAN CHEM. SOCIETY, ROME, ITALY, 1971.
- 460 72 017 DELMORE JE
A COMPUTER CONTROLLED MASS SPECTROMETER SYSTEM
CHEM. INSTRUM., 3, NO. 3, 251, 1972
- 460 72 018 DIETZ LA SHEFFIELD JC
SPECTROMETER FOR MEASURING SECONDARY ELECTRON YIELDS INDUCED BY ION IMPACTS ON THIN FILM OXIDE
SURFACES
KARL-P-3946, KNOLLS ATOMIC POWER LAB., SCHENECTADY, N.Y., 1970, 17P, NTIS
- 460 72 019 ENGELHARDT HD
EQUIPMENT FOR STUDYING HEAVY IONS: APPLICATION TO SOME PROBLEMS ASSOCIATED WITH MEDIUM ENERGY
FISSION
FRNC-TM-107, THESIS, GRENoble UNIV., FRANCE, 1971, 196P IN FRENCH, 235 REFERENCES, NTIS
- 460 72 020 EVANS S ORCHARD AF TURNER DW
A SIMPLE, MEDIUM RESOLUTION HELIUM(I) PHOTOELECTRON SPECTROMETER
J. MASS SPECTRY, ION PHYS., 7, 261, 1971, 16 REFERENCES
- 460 72 021 EWALD H
RECOIL PARTICLE SPECTROMETERS
- PP 225-40 OF BMBW-FBK-70-28, FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC
ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970, 35
REFERENCES
- 460 72 022 FADLEY CS HEALEY RN HOLLANDER JM MINER CE
DESIGN OF A HIGH RESOLUTION, HIGH EFFICIENCY MAGNETIC SPECTROMETER FOR ELECTRON SPECTROSCOPY
J. APPL. PHYS., 43, 1085, 1972
- 460 72 023 FORTIN M BARIL M
MULTIPASSAGE MAGNETIC MASS SPECTROMETER
REV. SCI. INSTRUM., 43, 1140, 1972
- 460 72 024 FUGONO N
STUDY ON MASS SPECTROMETER FOR DIRECT MEASUREMENT OF THE UPPER ATMOSPHERE COMPOSITION
J. RADIO RES. LAB., JAPAN, 17, NO. 92, 235-334, 1970
- 460 72 025 GAONA S MORALES P
MASS SPECTROMETER WITH DOUBLE COLLECTOR FOR THE DEUTERIUM-HYDROGEN ISOTOPE RATIO, ESPECIALLY IN
NATURAL WATER
REV. MEX. FIS., SUPPL. FIS. APL., 20, 91-9, 1971 IN SPANISH
- 460 72 026 GENEQUAN P
LE RESOTRON: SPECTROMETRE DE MASSE CYCLOTRONIQUE A BALAYAGE RAPIDE
Z. ANGEW. MATH. PHYS., 22, 951, 1971
- 460 72 027 HALLIDAY JS MERREN TO HEATH JS
MASS SPECTROMETERS HAVING ADJUSTABLE BEAM DEFINING SLITS
UNITED STATES PATENT 3,588,495, JUNE 26, 1971, TO ASSOCIATED ELECTRICAL INDUSTRIES LTD, PRIORITY
DATE, JUNE 11, 1965, GREAT BRITAIN
- 460 72 028 HERZOG RF
MASS SPECTROMETER FOR D-REGION STUDIES, 1, LABORATORY TESTS
N71-23788, PHASE 1, FINAL REPORT, GCA TECHNOLOGY DIV., GCA CORP., BEDFORD, MASS. 92P
- 460 72 029 HOFFMAN JH
LUNAR ORBITAL MASS SPECTROMETER
J. MASS SPECTRY, ION PHYS., 8, 403, 1972
- 460 72 030 HUBER WK SELHOFFER H BENNINGHOVEN A
ANALYTICAL SYSTEM FOR SECONDARY ION MASS SPECTROMETRY IN ULTRAHIGH VACUUM
J. VAC. SCI. TECHNOL., 9, NO. 1, 482, 1972, FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS.,
OCT. 11, 1971

- 460 72 031 IEROKOMOS N LEHOTSKY RB
SUMMARY OF THE DEVELOPMENT OF THE SPECIALIZED QUADRUPOLE MASS SPECTROMETER, PHASE 5
N71-35509, PERKIN-ELMER CORP., POMONA, CALIF., AEROSPACE DIV. 183P. NTIS
- 460 72 032 JUNGCLAUS H MACFARLANE RD FARES Y
NEW APPROACH TO ON-LINE MASS ANALYSIS
RADIOCHIM. ACTA. 16. 141. 1971
- 460 72 033 KAUFFMAN GF LANG J MARTIN WE
SECOND-ORDER REFOCUSING 15-INCH MASS SPECTROMETER FOR ULTRAPRECISE ISOTOPIC RATIO MEASUREMENTS OF
URANIUM HEXAFLUORIDE SAMPLES
GAT-655, GOODYEAR ATOMIC CORP., PIKETON, OHIO, JULY 15, 1971. 65P. NTIS
- 460 72 034 KAUFMAN M KOLB CE
MOLECULAR BEAM ANALYZER FOR IDENTIFYING TRANSIENT INTERMEDIATES IN GASEOUS REACTIONS
CHEM. INSTRUM., 3. NO. 2. 175. 1971
- 460 72 035 KELMAN VM UTEEV ML (1) NAZARENK LM (2) YAKUSHEV EM (2)
1. PRISMATIC MASS SPECTROMETER WITH WEDGE-SHAPED TERMINALS. 2. THEORY OF A SYMMETRIC PRISMATIC MASS
SPECTROMETER
ZH. TEKH. FIZ., 42. 292 AND 963. 1972 IN RUSSIAN
- 460 72 036 KOCH H
STUDY OF THE CONSTRUCTION OF A HIGH RESOLUTION SPECTROMETER FOR INVESTIGATION OF PROTON INDUCED
NUCLEAR REACTIONS IN A PLANNED SUPERCONDUCTING LINEAR ACCELERATOR IN KARLSRUHE AND IN AN ISOCHRON
RING ACCELERATOR IN ZURICH
NP-19264, KERNFORSCHUNGSZENTRUM, KARLSRUHE, WEST GERMANY, INSTITUT FUER EXPERIMENTELLE KERNPHYSIK,
APRIL 1971. 17P IN GERMAN. NTIS
- 460 72 037 KURASAWA H ANDO N SHIRAHASE T NAITO M
NEW 30 CM RADIUS MASS SPECTROMETER FOR HIGH SPEED ACCURATE ISOTOPIC ABUNDANCE MEASUREMENT
PP 236-44 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 460 72 038 LAWSON G TODD JFJ
RADIOFREQUENCY QUADRUPOLE MASS SPECTROMETERS
CHEM. BRITAIN. 8. NO. 9. 373. 1972
- 460 72 039 LEGER P
GA-6. A NEW RESIDUAL GAS ANALYZER WITH MAGNETIC SECTOR (MASSES FROM 2 TO 2000)
VOLUME 208 NUMBER 1018 1971 IN FRENCH
- 460 72 040 LINDALEN HR SOERAAS F NJAASTAD S RYNGOEYE T
SOLID STATE CHARGED PARTICLE SPECTROMETER IN THE ROCKET PROTON I
NP-19462, REPORT NO. 40. BERGEN UNIV., NORWAY, DEPT. OF PHYSICS, APRIL 1972. 23P. NTIS
- 460 72 041 MASTORIS S
THREE DIMENSIONAL QUADRUPOLE MASS SPECTROMETER
AD-746 282, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151. 1972
- 460 72 042 MOLL E EWALD H WOLLNIK M ARMBRUSTER P FIEBIG G
LAWIN H
MASS SPECTROMETER FOR THE INVESTIGATION OF FISSION PRODUCTS
PP 241-54 OF BMBW-FBK-70-28. FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC
ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 460 72 043 MORALES P GAUNA S ALBA F
MASS SPECTROMETER WITH TRIPLE COLLECTOR FOR HIGH PRECISION ANALYSIS OF ISOTOPIC STANDARDS OF CARBONS
AND OXYGENS
REV. MEX. FIS., 19. FA77. 1970 IN SPANISH
- 460 72 044 NILSSON O MIGAHED M MOSTAFA MA EL-FARRASH AH ABDEL-HAMID MG
ANDEL-HALIM A
50 CM IRON-FREE DOUBLE FOCUSING ELECTRON SPECTROMETER AT THE ATOMIC ENERGY ESTABLISHMENT, U.A.R.
UARAE-121, ATOMIC ENERGY ESTABLISHMENT, CAIRO, EGYPT, NUCLEAR PHYSICS DEPT., 1971. 15P. NTIS
- 460 72 045 NO AUTHOR
TECHNICAL NEWS BULLETIN. INTERFEROMETERS, MASS SPECTROMETERS
VOLUME 56, NUMBER 1, JANUARY 1972. COM-72-50033-1. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
24P
- 460 72 046 NO AUTHOR
1. PLANETARY ATMOSPHERIC EXPERIMENTAL TEST MASS SPECTROMETER SYSTEM. 2. EXPLORER 31 ION MASS
SPECTROMETER EXPERIMENT
1. N71-17797, FINAL REPORT, PERKIN-ELMER CORP., POMONA, CALIF., AEROSPACE DIV. 44P. 2. N71-34379,
TEXAS UNIV., DALLAS. 50P
- 460 72 047 NO AUTHOR
1. LABORATORY ISOTOPE MASS SPECTROMETER. 2. MAGNETIC MASS SPECTROMETERS.
1. T10-5423, UNION CARBIDE NUCLEAR CO., OAK RIDGE, TENN., K-25 PLANT, SEPT. 1955. 49P. K-D-631-2.
DECLASSIFIED OCT. 9, 1971. 2. BOOK, MLL RUSSIAN BOOK NO. R.73360. 232P. 1971 IN RUSSIAN
- 460 72 048 OFFERMANN D TRINKS H
ROCKET BORNE MASS SPECTROMETER WITH HELIUM COOLED ION SOURCE
REV. SCI. INSTRUM., 42. 1836. 1971
- 460 72 049 OTTO G
A QUADRUPOLE MASS FILTER
N70-37474, TECHTRAN CORP., GLEN BURNIE, MD., 12P
- 460 72 050 PANOFKY WKH
MAGNETIC SPECTROMETERS
PP 73-112 OF PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INSTRUMENTATION FOR HIGH ENERGY PHYSICS.
DZHELEPOV, V.P. (ED.), JOINT INST. FOR NUCLEAR RESEARCH, MOSCOW, 1971. FROM CONFERENCE, DUBNA,
USSR, SEPT. 8, 1970
- 460 72 051 PETROV IA SHPAK EV YAVOR SY
ELECTROSTATIC PRISM SPECTROMETER WITH QUADRUPOLE LENSES
NUCL. INSTRUM. METHODS, 101. 505. 1972

- 460 72 052 POWERS P
PLURAL BEAM MASS SPECTROMETER FOR CONDUCTING HIGH AND LOW RESOLUTION STUDIES
UNITED STATES PATENT 3,573,453, APRIL 6, 1971. TO ASSOCIATED ELECTRICAL INDUSTRIES. FILED MAY 12, 1967
- 460 72 053 PRAHALADA RAD BS MURTHY NS RAMA RAD VVK
A 60 DEGREE SECTOR MASS SPECTROMETER FOR GAS ANALYSIS
INDIAN J. TECHNOL., 9, 47, 1971
- 460 72 054 RASEKHI H WHITE FA
A TANDEM ION ANALYZER OF LARGE RADIUS
J. MASS SPECTRY, ION PHYS., 8, 277, 1972, 13 REFERENCES
- 460 72 055 RASSKOPF KF
STIGMATIC FOCUSING PARTIAL PRESSURE ANALYZER WITH A TWO CHAMBER ION SOURCE
IPP-7/5, INSTITUT FUER PLASMAPHYSIK, G.M.B.H., GARCHING, WEST GERMANY, JULY 1971, 43P IN GERMAN.
NTIS
- 460 72 056 RIGGS WM FEDCHENKO RP
DESIGN AND APPLICATION OF A NEW CONCEPT ELECTRON SPECTROMETER (ESCA)
AMER. LAB., 4, NO. 11, 65, 1972, 7 REFERENCES
- 460 72 057 ROBERTS THOMAS DD OWENS G
NEW SMALL DIAMETER MASS SPECTROMETER CANNULA FOR MEDICAL USE
MED. RES. ENGIN., 11, NO. 3, 27, 1972
- 460 72 058 ROY D CARETTE JD
1. ELECTROSTATIC SPECTROMETER. III. 2. METHODS OF MEASURING THE PERFORMANCE OF AN ELECTROSTATIC SPECTROMETER
CAN. J. PHYS., 49, 2138, 1971. IN FRENCH, AND REV. SCI. INSTRUM., 42, 1122, 1971
- 460 72 059 SAHOO HK MISRA SC GUPTA UC
DOUBLE FOCUSING MAGNETIC BETA-RAY SPECTROMETER USING CONICAL POLE FACES
BARC-558, BHABHA ATOMIC RESEARCH CENTRE, BOMBAY, INDIA, 1971, 17P, NTIS
- 460 72 060 SHERETOV EP ZENKIN VA BOLIGATO OI
3-DIMENSIONAL QUADRUPOLE MASS SPECTROMETER WITH ION STORAGE
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 195, 1971
- 460 72 061 SHIOKAWA T
SPECIFIC FEATURES OF TOKOKU CHARGE SPECTROMETER
MASS SPECTRY, JAPAN, 18, 1230, 1970 IN ENGLISH
- 460 72 062 SHUB BR TRETYAKO II KORCHAK VN
OMEGATRON MASS SPECTROMETER OF FLOW TYPE
ZH. FIZ. KHIM., 46, 1349, 1972 IN RUSSIAN
- 460 72 063 SORDKO LM
MULTIPLEX MAGNETIC SPECTROMETER OF CHARGED PARTICLES
JINR-P13-6032, JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, LAB. OF NUCLEAR PROBLEMS, 1971, 10P IN RUSSIAN, NTIS
- 460 72 064 STAHL D HOURIET R (2) GAUMANN T (2)
1. COUPLAGE ORDINATEUR - SPECTROMETRE DE MASSE. 2. SYSTEME SPECTROMETRE DE MASSE-ORDINATEUR POUR L'ANALYSE DE MELANGES H₂, HD, D₂
CHIMIA, 25, NO. 5, 149, 1971 AND 26, NO. 5, 243, 1972
- 460 72 065 STONE KM ADAMS JD
EVALUATION OF A MINIATURIZED MASS SPECTROMETER FOR ATMOSPHERIC CONTROL OF SEALED ENVIRONMENTS
PP 82-3 OF PREPRINTS OF THE SCIENTIFIC PROGRAMME OF THE AEROSPACE MEDICAL ASSOCIATION 1971 ANNUAL SCIENTIFIC MEETING, HOUSTON, TEXAS, APRIL 26-29, 1971. AEROSPACE MEDICAL ASSOC., WASHINGTON, D.C.
- 460 72 066 SULFRIDGE C LANGDON A
MASS SPECTROMETER WITH DUAL APERTURE COLLECTION OF URANIUM ISOTOPES
K-1880, OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., DEC. 1971, 11P, NTIS
- 460 72 067 SWINGLER DL
1. A GLASS ENCLOSED QUADRUPOLE RESIDUAL GAS ANALYZER. 2. SMALL MAGNETIC ANALYZER MASS SPECTROMETER WITH A VELOCITY FILTER FOR RESIDUAL GAS ANALYSIS. 3. SMALL MASS SPECTROMETERS WITH IMPROVED LUMINOSITY
VACUUM, 21, 17, 1971, 21, 121, 1971, AND 22, 359, 1972
- 460 72 068 TAKESHITA I NAKAO F
SMALL HIGH-SENSITIVE MASS SPECTROMETER
PP 231-5 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 460 72 069 TORNEY FL DOBROTT JR
LUNAR MASS SPECTROMETER TEST PROGRAM
N72-12817 AND N72-25429, 1971 AND 1972. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151
- 460 72 070 TRINKS H
DESIGN AND CALIBRATION OF A NEUTRAL GAS SPECTROMETER WITH AN OPEN AND FILAMENT FREE ELECTRON IMPACT ION SOURCE FOR NUMBER MEASUREMENTS IN THE UPPER ATMOSPHERE
N71-27075, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 460 72 071 TSUBOI M SAIDA S YAMAZAKI H INOUE M AMENIYA A
CONSTRUCTION OF AN ION-CYCLOTRON RESONANCE MASS SPECTROMETER
MASS SPECTRY, JAPAN, 20, 173, 1972 IN JAPANESE
- 460 72 072 UEDA Y OKANO J
SPUTTERING MASS SPECTROMETER WITH CESIUM PRIMARY ION SOURCE
MASS SPECTRY, JAPAN, 20, 185, 1972 IN ENGLISH
- 460 72 073 UTSUMI T NISHIKAWA O
FIELD ION MICROSCOPE COMBINED WITH A QUADRUPOLE MASS ANALYZER AND AN ENERGY ANALYZER
J. VAC. SCI. TECHNOL., 9, NO. 1, 477, 1972

- 460 72 074 VAINSHTEIN LV GROSSMAN YS LINNIK LN
AMN-1S MASS SPECTROMETRIC ANALYZER WITH CHARGE BUILDUP
PRIB. TEKH. EKSP., P245, 1972 IN RUSSIAN
- 460 72 075 VIEHBOECK FP
ION PROBES (MASS SPECTROMETERS)
N70-12912, ATOMENERGIE G.M.B.H., SEIBERSDORF, GERMANY, 25P IN GERMAN
- 460 72 076 WATANABE M
OPERATION CHARACTERISTICS OF THE BENNETT TYPE RADIO FREQUENCY MASS SPECTROMETER
MASS SPECTRY, JAPAN, 18, 1240, 1970
- 460 72 077 WERNER HW VENEHA A (2) LINSSEN AJ (2)
1. COMBINED MASS SPECTROMETER AND IONIZATION MANOMETER, 2. DESIGN OF A SMALL MAGNETIC SECTOR MASS
SPECTROMETER WITH REDUCED MASS DISCRIMINATION
1. UNITED STATES PATENT 3,610,922, OCTOBER 5, 1971, TO US PHILIPS CORP. FILED OCTOBER 16, 1969,
PRIORITY DATE OCTOBER 26, 1968, NETHERLANDS, 2. J. VAC. SCI. TECHNOL., 9, NO. 1, 216, 1972, FROM
5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 460 72 078 YAVOR SY PETROV IA DENISOV EP
HIGH RESOLUTION ELECTROSTATIC SPECTROMETER FOR SIEGBAHN ESCA METHOD
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1455, 1972
- 465 72 001 ALTHAUS JR
UTILIZATION OF MASS SPECTROMETRY FOR THE RAPID IDENTIFICATION OF DRUGS IN BIOLOGICAL MATERIAL
SCAND. J. CLIN. LAB. INVESTIG., 27, SUPPL., 118, 45, 1971
- 465 72 002 APLIN RT
PHYSICAL METHODS: PART 1. MASS SPECTROSCOPY
ANN. REP. PROG. CHEM., SECT. B, 67, 7-18, 1970
- 465 72 003 BEAUCHAMP JL
ION CYCLOTRON RESONANCE (ICR) SPECTROSCOPY
ANN. REV. PHYS. CHEM., 22, XXX, 1971
- 465 72 004 BERNAS R
ON-LINE MASS SPECTROMETRY
PP 535-47 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 465 72 005 RIEMANN K
EXPLORATION OF PLANETARY SURFACES BY MASS SPECTROMETRY
J. VAC. SCI. TECHNOL., 9, NO. 1, 456, 1972
- 465 72 006 BOROSSAY J
1. REPORT ON INTERNATIONAL CONFERENCE ON MASS SPECTROSCOPY, BRUSSELS, AUG. 31 - SEPT. 4, 1970, 2.
MASSENSPEKTROMETRIE ORGANISCHER VERBINDUNGEN, BOOK REVIEW BY W. BENZ
KEM. KOZLEMEN, 35, 463, 1971 AND 36, 462, 1972 IN HUNGARIAN
- 465 72 007 BURLINGAME AL JOHANSON GA (2)
1. TOPICS IN ORGANIC MASS SPECTROMETRY, 2. MASS SPECTROMETRY
1. BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS, NEW YORK, N.Y., 1970, 471P, 2. ANAL. CHEM., 44,
NO. 6, 337R-78R, 1972, 1742 REFERENCES
- 465 72 008 CAPELLEN J SVEC HJ JORDAN JR SUN R
BIBLIOGRAPHY OF MASS SPECTROSCOPY LITERATURE FOR 1970 COMPILED BY A COMPUTER METHOD

IS-2739, AMES LAB., USAEC, IOWA STATE UNIV., AMES, IOWA, JAN. 1972, 895P, 8822 REFERENCES, NTIS
- 465 72 009 CHAPMAN JR
MODERN ANALYTICAL METHODS IN RELATION WITH CLINICAL PROBLEMS: THE MASS SPECTROMETER
1ST INTERNATIONAL EXHIBITION AND TECHNICAL MEETING FOR MEDICAL ELECTRONICS AND BIOENGINEERING, SWISS
INDUSTRIES' FAIR, BASEL, SWITZERLAND, MARCH 9-13, 1971
- 465 72 010 DE GALAN L
ANALYTICAL SPECTROMETRY
BOOK, ADAM HILGER LTD., ENGLAND, 1972, 284P
- 465 72 011 FACCHETTI S
2ND CONFERENCE ON MASS SPECTROMETRY, ISPRA, ITALY, SEPT. 1 - 3, 1971
EUR-4765, EUROPEAN ATOMIC ENERGY COMMUNITY, LUXENBOURG, CENTER FOR INFORMATION AND DOCUMENTATION,
NOV. 1971, 465P, IN SEVERAL LANGUAGES, CONF-710957
- 465 72 012 FUGONO N
ROCKET MASS SPECTROMETRY IN JAPAN
PP 284-5 OF PROCEEDINGS OF THE 4TH ESRIN-ESIAB SYMPOSIUM ON MESOSPHERIC MODELS AND RELATED
EXPERIMENTS, FRASCATI, ITALY, JULY 6-10, 1970
- 465 72 013 GIRAUD A
ION MASS SPECTROMETRY
PP 543-77 OF REACTIONS UNDER PLASMA CONDITIONS, VOL. 1, VENUGOPALAN, M. (ED.), JOHN WILEY AND SONS
INC., NEW YORK, 1971, 153 REFERENCES
- 465 72 014 GOFF RF
ION SCATTERING SPECTROMETRY
J. VAC. SCI. TECHNOL., 9, NO. 1, 154, 1972
- 465 72 015 GOLDEN DE
LOW ENERGY ELECTRON IMPACT SPECTROSCOPY
AMER. LAB., 3, NO. 11, 69, 1971, 24 REFERENCES
- 465 72 016 GREGORY NL
INTERFERING IONS IN THE ELEMENTAL ANALYSIS OF BIOLOGICAL SAMPLES BY MASS SPECTROMETRY
ANAL. CHEM., 44, 231, 1972
- 465 72 017 GROSS ML
RECENT TOPICS IN MASS SPECTROMETRY
JACS, 94, 1417, 1972
- 465 72 018 HILL HC LOUDON AG
INTRODUCTION TO MASS SPECTROMETRY, 2ND EDITION
BOOK, HCYDEN AND SONS LTD., LONDON, 120P

- 465 72 019 HONIG RE
MASS SPECTROMETRIC TECHNIQUES
PP. 573-640 OF MODERN ANALYTICAL TECHNIQUES FOR METALS AND ALLOYS, PT. 2, BUNSHAH, R.F. (ED.), JOHN
WILEY AND SONS INC., NEW YORK, 1970. 223 REFERENCES
- 465 72 020 JOHNSTONE RAW MELLON FA (1)
1. ORGANIC MASS SPECTROMETRY. 2. MASS SPECTROMETRY FOR ORGANIC CHEMISTS
1. ANN. REP. PROG. CHEM., SECT. B. 68. 5, 1971. 2. BOOK, CAMBRIDGE UNIV. PRESS, LONDON, 1972. 185P
- 465 72 021 KANEKO Y KOBAYASHI N KANOWATA I
DRIFT TUBE MASS SPECTROMETRY
PP. 944-8 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 465 72 022 KARASEK FW
1. ESCA-NEW SPECTROSCOPY (SURFACE). 2. HAROLD WASHBURN, MS PIONEER
RES./DEVELOP., 23. NO. 2, 30, AND NO. 6, 26, 1972
- 465 72 023 KUSWA GW
SIMPLE METHODS FOR DETERMINING M/Z OF PARTICLES IN QUASISTATIONARY PLASMAS
REV. SCI. INSTRUM., 42. 1734, 1971
- 465 72 024 LANPPE FW
COLLISION REACTIONS IN MASS SPECTROMETRY
CODATA BULL., PAGE 22, DECEMBER 1971
- 465 72 025 LAWSON AM
MASS SPECTROMETRY OF NUCLEIC ACID COMPONENTS. TRIMETHYLSILYL DERIVATIVES OF NUCLEOTIDES
JACS, 93. 1014, 1971
- 465 72 026 LIEDTKE RJ
MASS SPECTROMETRY OF CARBONYL COMPOUNDS
THESIS, STANFORD UNIV., CALIFORNIA, 1972. UNIV. MICROFILMS ORDER NO. 72-16,743. DISS. ABS., 32B. 12,
6924, 1972
- 465 72 027 MACCOLL A
MTP INTERNATIONAL REVIEW OF SCIENCE: PHYSICAL CHEMISTRY (SERIES ONE). VOLUME 5. MASS SPECTROMETRY
BOOK, BUTTERWORTH GROUP, LONDON, 1972. 312P
- 465 72 028 MAJER JR
ANALYTICAL MASS SPECTROMETRY
TALANTA, 19. 529, 1972
- 465 72 029 MELTON CE
PRINCIPLES OF MASS SPECTROMETRY AND NEGATIVE IONS
BOOK, MARCEL DEKKER INC., 1970. 313P
- 465 72 030 MILLARD BJ
MASS SPECTROMETRY IN DRUG RESEARCH
CHAPTER IN ADVANCES IN DRUG RESEARCH, VOL. 6, EDITED BY N.J. HARPER AND A.B. SIMMONDS. ACADEMIC
PRESS, 1971. 256P
- 465 72 031 MILNE GWA FALES HM (2)
1. MASS SPECTROMETRY, TECHNIQUES AND APPLICATIONS. 2. APPLICATION OF MASS SPECTROMETRY TO BIOMEDICAL
PROBLEMS
1. BOOK, WILEY-INTERSCIENCE, JOHN WILEY AND SONS, NEW YORK, 1971. 529P. 2. PP 82 OF 10TH NATIONAL
MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY, SOC. FOR APPLIED SPECTROSCOPY, NEW YORK, 1971.
FROM MEETING, ST. LOUIS, MO., OCT. 18-22, 1971
- 465 72 032 MORSE RI
A MASS SPECTROSCOPY EXPERIMENT.
J. CHEM. EDUC., 48. 398, 1971
- 465 72 033 NO AUTHOR
1. OAR RESEARCH REVIEW: AIR POLLUTION, MASS SPECTROSCOPY, PHASE STUDIES, BIOCHEMISTRY. 2. RESEARCH
ACTIVITIES IN THE FIELD OF MATERIALS SCIENCE. 3. MASS SPECTROSCOPY
1. OAR RESEARCH REVIEW, VOLUME 9. NO. 1. JAN.-FEB. 1970. AD-700 114. 40P. 2. AD-729 734. NORTH
CAROLINA UNIV., CHAPEL HILL, MATERIALS RESEARCH CENTER, 139P. 3. AEC-TR-7102/4. TRANSLATION OF
NUKLEONIKA, VOLUME 15. NO. 4. 1970. SPECIAL FOREIGN CURRENCY SCIENCE INFORMATION PROGRAM, NATIONAL
SCIENCE FOUNDATION, WASHINGTON, D.C. 98P
- 465 72 034 NO AUTHOR
1. CHEMISTRY DIVISION. 2. MASS SPECTROMETRY. 3. MASS SPECTROSCOPY RESEARCH. 4. RECOMMENDATIONS FOR
NOMENCLATURE OF MASS SPECTROMETRY
1. PP 25-123 OF IS-2600. ANNUAL SUMMARY RESEARCH REPORT, JULY 1970 - JUNE 1971. AMES LAB., IOWA.
DEC. 1971. 2. PP 51-2 OF ORNL-4749. ANNUAL PROGRESS REPORT, OAK RIDGE NATIONAL LAB., TENN. JAN.
1972. 3. UCB-34-P-32-PR-7. PROGRESS REPORT, CALIFORNIA UNIV., BERKELEY, DEPT. OF PHYSICS, SEPT.
1972. 18P. NTIS. 4. IUPAC INFORMATION BULL. NO. 17, APPENDICES ON TENTATIVE NOMENCLATURE, SYMBOLS,
UNITS, STANDARDS, 1972. 7P. ROY. SOC. BULL., 10. NO. 2. 43, 1972
- 465 72 035 OKERHOLM RA
APPLICATION OF MASS SPECTROMETRY TO THE ANALYSIS OF STEROID HORMONES
THESIS, BOSTON UNIV., MASS. UNIV. MICROFILMS ORDER NO. 70-23,133. DISS. ABS., 31B. 6, 3163, 1970
- 465 72 036 PRICE D
DYNAMIC MASS SPECTROMETRY, VOLUME 3
BOOK, HEYDEN AND SONS LTD., LONDON, 1972. 348P
- 465 72 037 REED RI
RECENT TOPICS IN MASS SPECTROMETRY
JACS, 94. 1417, 1972 BOOK REVIEW
- 465 72 038 SKINNER GT
THE CAL SHOCK-TUBE-DRIVEN MOLECULAR BEAM: CROSSED BEAM SCATTERING (MASS SPECTROSCOPY)
AD-719 820. CORNELL AERONAUTICAL LAB. INC., BUFFALO, N.Y. 35P
- 465 72 039 SPITELLER G
MASS SPECTROMETRY OF HETEROCYCLIC COMPOUNDS
BOOK, PHYSICAL METHODS IN HETEROCYCLIC CHEMISTRY, VOLUME 3, 1971. 478P

- 465 72 040 STRASHEIM A
LASER SOURCE MASS SPECTROGRAPHY
PP 69 OF 10TH NATIONAL MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY (ABSTRACTS ONLY). SOC. FOR
APPLIED SPECTROSCOPY. NEW YORK. 1971. FROM MEETING. ST. LOUIS. MO., OCT. 18. 1971
- 465 72 041 TSUCHIYA M ODA S
MASS SPECTROMETRY
JAPAN ANALYST. 21. NO. 12. 83R. 1972
- 465 72 042 VALLON P ERICKSON R
MASS SPECTROMETRY IN NATURAL PRODUCTS RESEARCH
DRUG AND COSMETIC IND.. 107. NO. 1. 44-60. 1970
- 465 72 043 VON ARDENNE M
1. ELEKTROMENANLAGERUNGS MASSENSPEKTROGRAPHIE ORGANISCHER SUBSTANZEN. 2. MASS SPECTROGRAPHY OF
NEGATIVE IONS OF ORGANIC SUBSTANCES
1. BOOK. SPRINGER-VERLAG. GERMANY. 1971. 403P. 2. ZH. ANAL. KHIM.. 27. 1444. 1972 BOOK REVIEW. IN
RUSSIAN
- 465 72 044 WALLER GR
BIOCHEMICAL APPLICATIONS OF MASS SPECTROMETRY
BOOK. WILEY-INTERSCIENCE. JOHN WILEY AND SONS INC.. NEW YORK. 1972. 399P
- 465 72 045 WEST TS ROBERTSON AJB
MASS SPECTROMETRY
CHAPTER FROM: PHYSICAL CHEMISTRY SERIES ONE. VOLUME 13. ANALYTICAL CHEMISTRY. PART 2. BUTTERWORTH
AND CO. PUBLISHERS LTD.. LONDON. 1972
- 465 72 046 WILLIAMS DH HOWE I
PRINCIPLES OF ORGANIC MASS SPECTROMETRY
BOOK. MCGRAW-HILL. LONDON AND NEW YORK. 1972. 245P
- 465 72 047 YINON J KLEIN FS
THE QUADRUPOLE AND ITS APPLICATIONS IN VACUUM TECHNOLOGY AND MASS SPECTROMETRY
VACUUM. 21. 379. 1971
- 465 72 048 YOUNG WA
MASS SPECTROMETRIC ANALYSIS OF MATERIALS
NAA-SR-MEMO-12149. ATOMICS INTERNATIONAL. CANOGA PARK. CALIFORNIA. SEPT. 1966. 9P. NTIS.
DECLASSIFIED OCT. 22. 1971
- 470 72 001 ADAMS A READ FH
ELECTROSTATIC CYLINDER LENSES. 2. THREE ELEMENT EINZEL LENSES. 3. THREE ELEMENT ASYMMETRIC VOLTAGE
LENSES
J. PHYS. E. 5. 150 AND 156. 1972
- 470 72 002 ALLEN JD WOLFE JP SCHWEITZER GK
NEW ELECTRON SPECTROMETER DESIGN
J. MASS SPECTRY. ION PHYS.. 8. 81. 1972. 2 REFERENCES
- 470 72 003 ASHLEY JR
HYBRID COMPUTER AIDED DESIGN OF THICK ELECTROSTATIC ELECTRON LENSES
IEEE PROCEEDINGS. 60. NO. 1. 115. 1972
- 470 72 004 BALLU Y DEGRAS D REGNAUD C
ENERGY SELECTOR FOR CHARGED PARTICLES

FRENCH PATENT 2.088.650. DECEMBER 13. 1971. TO COMMISSARIAT A L'ENERGIE ATOMIQUE. FILED APRIL 20.
1970. IN FRENCH
- 470 72 005 BARANOVA LA OVSYANNI LP YAVOR SY
ASYMMETRIC QUADRUPOLE LENSES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.). 17. 170. 1972
- 470 72 006 BRINKMANN U
MODIFIED QUADRUPOLE MASS FILTER FOR SEPARATION OF IONS OF HIGHER MASSES WITH HIGH TRANSMISSION
J. MASS SPECTRY. ION PHYS.. 9. 161. 1972. 7 REFERENCES
- 470 72 007 COUANT J FOIS M LE BIHAN AM
ELECTROSTATIC ANALYZER FOR PARTICLES OF VERY LOW ENERGY
ENTROPIE. 42. 74. 1971. CEA-CONF-1818. COMMISSARIAT A L'ENERGIE ATOMIQUE. FONTENAY-AUX-ROSES.
FRANCE. CENTRE D'ETUDES NUCLEAIRES. 1971. 8P IN FRENCH. CONF-710629-1. NTIS. FROM 3RD
INTERNATIONAL SYMPOSIUM ON MOLECULAR JETS. CANNES. FRANCE. JUNE 29. 1971
- 470 72 008 DECREAU P
ETUDE DES CARACTERISTIQUES DES ANALYSEURS ELECTROSTATIQUES TOROIDAUX. APPLICATION A LA PHYSIQUE
SPATIALE. (CHARACTERISTICS STUDY OF TOROIDAL ELECTROSTATIC ANALYZERS. APPLICATION TO SPACE
PHYSICS)
N72-10391. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD. VA.
22151. 1971
- 470 72 009 DELAGE Y CARETTE JD
ELECTROSTATIC SPECTROMETER. 1.
CAN. J. PHYS.. 49. 2118. 1971 IN FRENCH
- 470 72 010 DEMERS P
PROGRES POSSIBLES DE LA SPECTROGRAPHIE MAGNETIQUE A BASE D'IONOGRAPHIE
NUCL. INSTRUM. METHODS. 100. 121. 1972
- 470 72 011 DIONISO JS MARION A
SYSTEM FOR AUTOMATIC CONTROL AND REGISTRATION FOR A MAGNETIC BETA SPECTROMETER
NUCL. INSTRUM. METHODS. 95. 461. 1971 IN FRENCH
- 470 72 012 GOHLKE RS HAPP GP MAIER DP
EXACT MASS MEASUREMENT ACCURACY FROM CEC 21-1108 MASS SPECTROMETER AND COMMERCIAL DATA SYSTEM DS-30
ANAL. CHEM.. 44. 1484. 1972
- 470 72 013 GOMET J LEJEUNE J
REALISATION D'UN SPECTROMETRE DE MASSE LINEAIRE A RADIOFREQUENCE (RF). AMELIORATION DU POUVOIR DE
RESOLUTION
COMPT. REND.. SER. AB. 273. 612. 1971

- 470 72 014 GREEN REL LIND DA (2)
1. DOUBLE FOCUSING QUADRUPOLE LENS SPECTROMETER AND ITS USE IN THE STUDY OF VARIOUS NUCLEAR REACTIONS. 2. QUADRUPOLE LENS REACTION PRODUCTS SPECTROMETER SYSTEM
1. THESIS, UNIV. OF COLORADO, BOULDER, 1970. 145P. UNIV. MICROFILMS ORDER NO. 71-21,590. 2. NUCL. INSTRUM. METHODS, 94, 93, 1971
- 470 72 015 HALL LG
OPTIMIZATION STUDY. MASS SPECTROMETERS
N71-38153. PERKIN-ELMER CORP., POMONA, CALIF., AEROSPACE DIV. 103P
- 470 72 016 HAYHURST AN MITCHEL FRG TELFORD NR
QUADRUPOLE MASS FILTER DESIGNED FOR FLAME IONIZATION STUDIES
J. MASS SPECTRY, ION PHYS., 7, 177, 1971. 18 REFERENCES
- 470 72 017 HOGG AM
MODIFICATION OF AN AEI MS12 MASS SPECTROMETER FOR CHEMICAL IONIZATION
ANAL. CHEM., 44, 227, 1972
- 470 72 018 HOLME AE THATCHER WJ LECK JH
1. INVESTIGATION OF FACTORS DETERMINING MAXIMUM RESOLUTION IN A QUADRUPOLE MASS SPECTROMETER. 2. INVESTIGATION OF FACTORS AFFECTING PERFORMANCE OF QUADRUPOLE MASS SPECTROMETERS WITH PARTICULAR REFERENCE TO RESIDUAL GAS ANALYSIS
J. PHYS. E, 5, 429, 1972 AND VACUUM, 22, 327, 1972
- 470 72 019 HUESER JE FOWLER P
WIND TUNNEL MASS SPECTROMETER DESIGN STUDY
N72-18425. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 470 72 020 IEROKOMOS N RUECKER MR
QUADRUPOLE ION ENTRANCE MASK STUDY
N71-35878. PERKIN-ELMER CORP., POMONA, CALIFORNIA. 74P
- 470 72 021 KRIZANCIC I
DESIGN, CONSTRUCTION, AND TESTING OF A SHOCK TUBE COUPLED THROUGH A MOLECULAR BEAM TO A TIME-OF-FLIGHT MASS SPECTROMETER
THESIS, UNIV. OF TORONTO, CANADA. DISS. ABS., 32B, 10, 5715, 1972. MICROFILM COPY AVAILABLE FROM NATIONAL LIBRARY OF CANADA AT OTTAWA
- 470 72 022 LIN SS
SIMPLE POSITIONER FOR QUADRUPOLE MASS SPECTROMETER
REV. SCI. INSTRUM., 42, 1083, 1971
- 470 72 023 ODIORNE TJ DESIDERIO OM
TECHNIQUE FOR CHEMICAL IONIZATION OPERATION OF A CEC 21-110B MASS SPECTROMETER
ANAL. CHEM., 44, 1925, 1972
- 470 72 024 PARKER LW
THEORY OF THE EXTERNAL SHEATH STRUCTURE AND ION COLLECTION CHARACTERISTICS OF A ROCKET BORNE MASS SPECTROMETER
AD-720 833. MOUNT AUBURN RESEARCH ASSOCIATES INC., CAMBRIDGE, MASS. 84P
- 470 72 025 PICHLMAYER F RUEDENAUER F
DYNAMIC SENSITIVITY OF QUADRUPOLE MASS SPECTROMETERS
SGAE-2021. OESTERREICHISCHE STUDIENGESellschaft FUER ATOMENERGIE G.M.B.H., SEIBERSDORF, PHYSIK-INSTITUT, JUNE 1972. 19P IN GERMAN. PH-119/72. NTIS
- 470 72 026 READ FH ADAMS A SOTO MO
ELECTROSTATIC CYLINDER LENSES. 1. TWO ELEMENT LENSES
J. PHYS. E, 4, 625, 1971
- 470 72 027 RISLEY JS
DESIGN PARAMETERS FOR THE CYLINDRICAL MIRROR ENERGY ANALYZER
REV. SCI. INSTRUM., 43, 95, 1972
- 470 72 028 RUEDENAUER FG
COMPARISON BETWEEN QUADRUPOLE AND MAGNETIC MASS SPECTROMETERS FOR USE IN SIM
VACUUM, 22, 609, 1972. SGAE-2033. OESTERREICHISCHE STUDIENGESellschaft FUER ATOMENERGIE G.M.B.H., SEIBERSDORF, PHYSIK-INSTITUT, SEPT. 1972. 16P. CONF-720716-2. NTIS. FROM INTERNATIONAL CONFERENCE AND EXHIBITION ON VACUUM INSTRUMENTS AND METHODS IN SURFACE STUDIES, GUILDFORD, SURREY, UK, JULY 10, 1972
- 470 72 029 SAMSONOV SP
DISCRETE SWEEP OF MASS SPECTRUM WITH RESPECT TO CURRENT OF ELECTROMAGNET WITH AUTOMATIC RECORDING OF ION CURRENTS
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 15, 1591, 1972
- 470 72 030 SELIGER RL
E X B MASS SEPARATOR DESIGN
1. PP 183-92 OF RECORD OF THE 11TH SYMPOSIUM ON ELECTRON, ION, AND LASER BEAM TECHNOLOGY, THORNLEY, R.F.M. (ED.), INST. OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC., NEW YORK, 1971. FROM SYMPOSIUM, BOULDER, COLO., MAY 12, 1971. 2. J. APPL. PHYS., 43, 2352, 1972
- 470 72 031 SHERETOV EP ZENKIN VA (1) TERENTEV VI (2)
1. SHAPE OF THE MASS PEAK IN A THREE DIMENSIONAL QUADRUPOLE MASS SPECTROMETER. 2. BASES OF QUADRUPOLE MASS SPECTROMETERS THEORY DURING PULSED FEEDING
1. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 17, 160, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 42, 199, 1972. 2. ZH. TEKH. FIZ., 42, 953, 1972 IN RUSSIAN
- 470 72 032 SHERMAN C
ION COLLECTION BY A POSITIVE ION MASS SPECTROMETER
AD-740 857. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 470 72 033 SKINNER G
TRANSIENT RESPONSE OF A MASS SPECTROMETER WITH A BRINK IONIZER
AD-743 211. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972

- 470 72 034 SLOBODENYUK GI
THEORETICAL STUDY OF LIMITING CHARACTERISTICS OF QUADRUPOLE MASS SPECTROMETER
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 798, 1971. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1016, 1971
- 470 72 035 SMITH DM CHRISTIE WH
FORTRAN PROGRAMS TO DESIGN MASS SPECTROMETERS WITH COMPLETE SECOND-ORDER FOCUSING
CHEM. INSTRUM., 3, NO. 2, 165, 1971
- 470 72 036 SMITH RJ SACHS FL CLARK WE
DUAL PHASE LOCK-IN DETECTOR, HIGH RESOLUTION 15-IN. MASS SPECTROMETER, MASS SELECTOR FOR MASS SPECTROMETER
TID-4100(SUPPL.65), ENGINEERING MATERIALS LIST, DIVISION OF TECHNICAL INFORMATION EXTENSION, AEC, OAK RIDGE, TENN., SEPT. 1971, 41P, DTIE
- 470 72 037 STAIB P
AN IMPROVED RETARDING FIELD ANALYSER
IPP-9/5, MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK, GARCHING, WEST GERMANY, FEB. 1972, 14P, NTIS
- 470 72 038 STALLINGS CM KUSWA GW
EFFECT OF A SLIT ON THE MEASURED PLASMA ION ENERGY DISTRIBUTION
J. APPL. PHYS., 42, 3960, 1971
- 470 72 039 VASILEV VL TOKHASHE GV TIKHOMIR VF
SUPERCONDUCTING QUADRUPOLE LENS
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 30, 1971
- 470 72 040 VASSOS BH EWING GW
IMPROVED MAGNETIC SCAN FOR A MASS SPECTROMETER
CHEM. INSTRUM., 3, NO. 4, 343, 1972
- 470 72 041 WAGNER PE HARDEN CS
A THREE DIMENSIONAL QUADRUPOLE MASS ANALYZER, 2. OPERATIONAL CHARACTERISTICS
AD-729 788, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971, 27P
- 470 72 042 WILSON RG
PERFORMANCE OF A SMALL, PERMANENT MAGNET, SINGLE ELECTRODE PAIR, E X B VELOCITY FILTER AS A MASS SEPARATOR
NUCL. INSTRUM. METHODS, 100, 9, 1972
- 470 72 043 WOLLNIK H
Q-VALUE FOR PARTICLE SPECTROMETERS
NUCL. INSTRUM. METHODS, 95, 453, 1971
- 475 72 001 ACKERMANN RJ RAUGH EG
1. HIGH TEMPERATURE STUDY OF THE STOICHIOMETRY, PHASE BEHAVIOR, VAPORIZATION CHARACTERISTICS, AND THERMODYNAMIC PROPERTIES OF THE LANTHANUM + OXYGEN SYSTEM, 2. HIGH TEMPERATURE STUDY OF THE STOICHIOMETRY, PHASE BEHAVIOR, VAPORIZATION CHARACTERISTICS, AND THERMODYNAMIC PROPERTIES OF THE CERIUM + OXYGEN SYSTEM, 3. THERMODYNAMICS AND VAPORIZATION OF THORIUM, HAFNIUM, AND ZIRCONIUM
J. CHEM. THERMODYN., 3, 445, 1971, 3, 609, 1971, AND 4, 251, 1972
- 475 72 002 ANABLE WE
PURIFICATION OF VANADIUM BY VACUUM MELTING
J. VAC. SCI. TECHNOL., 7, 574-81, 1970, FROM 2ND INTERNATIONAL VACUUM METALLURGY CONFERENCE, ANAHEIM, CALIF. CONF-700640
- 475 72 003 BAN VS
MASS SPECTROMETRIC STUDIES OF VAPOR PHASE CRYSTAL GROWTH, 2. GAN
J. ELECTROCHEM. SOC., 119, 761, 1972
- 475 72 004 BARTOSIK DC
THERMODYNAMIC PROPERTIES OF THE GOLD-PALLADIUM SYSTEM AS MEASURED WITH A DUAL-CHAMBER KNUDSEN CELL MASS SPECTROMETER COMBINATION TECHNIQUE
THESIS, NORTHWESTERN UNIV., EVANSTON, ILL. UNIV. MICROFILMS ORDER NO. 71-30.739, DISS. ABS., 328, 6, 3478, 1971
- 475 72 005 BATTLES JE SHINN WA BLACKBURN PE
THERMODYNAMIC INVESTIGATION OF TRISODIUM URANIUM(V) OXIDE (NA₃UO₄), 4. MASS SPECTROMETRIC STUDY OF NA + U + O SYSTEM
J. CHEM. THERMODYN., 4, 425, 1972
- 475 72 006 BELOUSOV VI SIDOROV LN AKISHIN PA
MASS SPECTROMETRIC STUDY OF THERMODYNAMIC PROPERTIES OF NAF-BEF₂ SYSTEM, 5. COMPOSITION-PRESSURE DIAGRAM
ZH. FIZ. KHIM., 45, 1063, 1971 IN RUSSIAN
- 475 72 007 BLOOM H ANTHONY RG
1. MASS SPECTROMETRY OF THE VAPOURS OVER PBBR₂-MBR MIXTURES (M = NA, K, RB, CS) 2. MASS SPECTROMETRIC IDENTIFICATION OF CADMIUM(II) CHLOROBROMIDE
AUSTRALIAN J. CHEM., 24, 2001, 1971 AND 25, 23, 1972
- 475 72 008 BRACEWELL JM
CHARACTERIZATION OF SOILS BY PYROLYSIS COMBINED WITH MASS SPECTROMETRY
GEODERMA, 6, NO. 3, 163, 1971
- 475 72 009 CABAUD B HOAREAU A NOUNOU P VIZAN R
ETUDE DES PROCESSUS D'IONISATION A HAUTE TEMPERATURE DES VAPEURS METALLIQUES PAR COUPLAGE D'UNE CELLULE DE KNUDSEN ET D'UNE SOURCE FOX, 2. INTERPRETATION DES PROCESSUS D'AUTOIONISATION DES VAPEURS METALLIQUES MONOATOMIQUES ET INFLUENCE DE LA TEMPERATURE SUR LES COURBES D'EFFICACITE D'IONISATION
J. MASS SPECTRY, ION PHYS., 8, 181, 1972 IN FRENCH, 25 REFERENCES
- 475 72 010 CHISHIKOV DM TSVETKO UV
1. MASS SPECTROMETRIC STUDY OF THE DISSOCIATION OF IRON OXIDES, 2. MASS SPECTROMETRY OF COBALT OXIDE EVAPORATION
IZV. AKADE. NAUK SSSR, METAL., NO. 3, 55, 1971 AND ZH. NEORG. KHIM., 17, 891, 1972 IN RUSSIAN
- 475 72 011 CHIZHIKOV DM TSVETKOV YV KAZENAS EK
1. MASS SPECTROMETRIC STUDY OF THE COMPOSITION AND PRESSURE OF CHROMIUM OXIDE VAPOR, 2. MASS SPECTROMETRY OF THE DISSOCIATION PRESSURE OF HEMATITE IN ITS HOMOGENEITY REGION
ZH. FIZ. KHIM., 46, 806 AND 1577, 1972 IN RUSSIAN

- 475 72 012 COTTER JL
1. THE THERMAL DEGRADATION OF PERFLUOROPOLYPYRIDINE. 2. THE THERMAL DEGRADATION OF PERFLUOROALKYLENE LINKED ORGANOSILOXANE POLYMERS
1. N71-17093. ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH, ENGLAND. 17P. 2. AD-746 730. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1972
- 475 72 013 DOUGLAS TB
SUMMARY OF RECENT THERMODYNAMIC MEASUREMENTS BY CALORIMETRIC, TRANSPIRATION, MASS SPECTROMETRIC, MICROWAVE, AND INFRARED TECHNIQUES
COM-72-50160. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. 12P
- 475 72 014 EHLERT TC HSIA M
1. THERMAL DECOMPOSITION OF ALKALI METAL HEXAFLUOROPHOSPHATES. 2. MASS SPECTROMETRIC AND THERMOCHEMICAL STUDIES OF THE MANGANESE FLUORIDES
J. CHEM. ENG. DATA, 18, 1971 AND J. FLUORINE CHEM., 2, 33, 1972
- 475 72 015 FARBER M FRISCH MA (1) HARRIS SP (3)
1. THERMODYNAMICS OF SEVERAL LIGHT ELEMENT HIGH TEMPERATURE SPECIES. 2. DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF IONIZED SPECIES. 3. MASS SPECTROMETRIC DETERMINATION OF THERMODYNAMIC PROPERTIES OF COMPOUNDS IN THE AL-CL-F SYSTEM
1. PP 443-56 OF PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS. POLISH SCIENTIFIC PUBLISHERS, WARSAW, 1969. FROM CONF-690834. WARSAW, POLAND, AUG. 31, 1969. 2. AD-731 303. SPACE SCIENCES INC., MONROVIA, CALIF. 50P. 3. HIGH TEMP. SCI., 3, 231, 1971. AD-735 171. 1970
- 475 72 016 FARBER M SRIVASTAVA RD UY OM
1. MASS SPECTROMETRIC DETERMINATION OF THE THERMODYNAMIC PROPERTIES OF VAPOR SPECIES FROM ALUMINA. 2. EFFUSION-MASS SPECTROMETRIC DETERMINATION OF THE HEATS OF FORMATION OF THE GASEOUS MOLECULES V4O10, V4O8, VO2, AND VO
J. CHEM. SOC., FARADAY TRANS., 1, 68, 249, 1972, AD-738 397, AND J. CHEM. PHYS., 56, 5312, 1972
- 475 72 017 FEATHER DM
MASS SPECTROMETRIC STUDIES OF INORGANIC VAPORS
LBL-844. THESIS. CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., SEPT. 1972. 60P. NTIS
- 475 72 018 FESENKO VV
USE OF LANGMUIR METHOD FOR INVESTIGATION OF THERMODYNAMIC PROPERTIES OF REFRACTORY COMPOUNDS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 1098, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1929, 1971. FROM CONFERENCE ON THE THERMODYNAMICS OF METALLIC ALLOYS, KIEV, USSR, SEPT. 22, 1969
- 475 72 019 GINGERICH KA FINKBEINER HC (1) COCKE DL (2)
1. THERMODYNAMIC STUDY OF GASEOUS RARE EARTH AUROIDES. 2. THERMODYNAMIC CONFIGURATION FOR HIGH STABILITY OF GASEOUS TIRM AS PREDICTED BY BREWER-ENGEL METALLIC THEORY AND T
1. PP 457-61 OF PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS. POLISH SCIENTIFIC PUBLISHERS, WARSAW, 1969. FROM CONF-690834. WARSAW, POLAND, AUG. 31, 1969. 2. J. CHEM. SOC., CHEM. COMMUN., P536, 1972
- 475 72 020 GLASS I
SHOCK TUBES. PROCEEDINGS OF 7TH INTERNATIONAL SHOCK TUBE SYMPOSIUM, UNIV. OF TORONTO, TORONTO, CANADA, JUNE 23 - 25, 1969
AD-721 402. TORONTO UNIV., ONTARIO, CANADA, INST. FOR AEROSPACE STUDIES
- 475 72 021 GOROKHOV LN GUSAROV AV MAKAROV AV
MASS SPECTROMETRIC STUDY OF EVAPORATION OF ALKALI METABORATES
HIGH TEMP. USSR (ENGL. TRANS.), 9, 1082, 1971
- 475 72 022 HALUK M
A MASS SPECTROMETRIC STUDY OF THE HOMOGENEOUS THERMAL DECOMPOSITION OF AMMONIA IN A SHOCK TUBE
THESIS. UNIV. OF TORONTO, ONTARIO, CANADA. DISS. ABS., 32B, 9, 5162, 1972. MICROFILM COPY AVAILABLE FROM NATIONAL LIBRARY OF CANADA, OTTAWA
- 475 72 023 HASTIE JW
THERMODYNAMIC STUDIES BY MASS SPECTROMETRY OF MOLTEN MIXED HALIDE SYSTEMS
COM-71-50506. NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. 33P
- 475 72 024 HIRAMATSU K
1. MASS SPECTROMETRIC ANALYSIS OF THE PRODUCTS OF PYROLYSIS OF MELAMINE FORMALDEHYDE RESIN AND UREA FORMALDEHYDE RESIN. 2. STUDY OF PYROLYTIC PRODUCTS OF POLYMER MATERIALS BY MASS SPECTROMETRY. VIII. COMBUSTION GASES FROM RESIN COATINGS
OSAKA FURATSU KOGYO SHOREIKAN HOKOKU, 43, 28, 1967 AND MASS SPECTRY, JAPAN, 19, 316, 1971 IN JAPANESE
- 475 72 025 HOCH M OBLINGER CJ (1) ROLINSKI EJ (1) HAPASE MG (2) YAMAUCHI S (2)
1. THERMODYNAMICS OF VANADIUM ALLOYS. II. MASS SPECTROMETRIC DETERMINATION OF THERMODYNAMIC PROPERTIES OF VANADIUM-TITANIUM-CHROMIUM ALLOYS. 2. THERMODYNAMIC PROPERTIES OF TERNARY REFRACTORY CARBIDES. II. ZIRCONIUM-URANIUM-CARBON AND ZIRCONIUM-HAFNIUM-CARBON
1. AD-720 287. FINAL REPORT, JAN. 1969-APRIL 1970. CINCINNATI UNIV., OHIO, DEPT. OF MATERIALS SCIENCE AND METALLURGICAL ENGINEERING, OCT. 1970. 95P. AFML-TR-70-119(Pt. 2). NTIS. 2. J. ELECTROCHEM. SOC., 118, 1503, 1971
- 475 72 026 IZOD TP KISTIAKO GB MATSUDA S
OXIDATION OF CARBON MONOXIDE MIXTURES WITH ADDED ETHANE OR AZOMETHANE STUDIED IN INCIDENT SHOCK WAVES
J. CHEM. PHYS., 55, 4425, 1971
- 475 72 027 JOYCE TE ROLINSKI EJ
A MASS SPECTROMETRIC STUDY OF THE VAPORIZATION OF CUPROUS IODIDE
J. PHYS. CHEM., 76, 2310, 1972. AD-739 884, 1972
- 475 72 028 KALASHNIK AT
MASS SPECTROSCOPIC STUDY OF THERMAL DEGRADATION OF AROMATIC POLYAMIDES
VYSOKOMOL. SOEDEN., SER. B, KRATK. SOOBShCH., 14, NO. 5, 346, 1972 IN RUSSIAN
- 475 72 029 KARASEV NM KORENEV YM TIMOSHIN IA
MASS SPECTRAL THERMODYNAMIC STUDY OF BINARY SYSTEMS FORMED BY CHALCOGENIDES OF SECOND GROUP. 2. CDS-TCDS SYSTEM
ZH. FIZ. KHIM., 46, 1718, 1972
- 475 72 030 KELLER H
ZUR THERMODYNAMIK VON SELENDAMPF. MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN MIT DER ELEKTROCHEMISCHEN KNUDSEN ZELLE
Z. PHYS. CHEM. (FRANKFURT), 75, 273, 1971

- 475 72 031 KENT RA
MASS SPECTROMETRIC STUDIES OF PLUTONIUM COMPOUNDS AT HIGH TEMPERATURES. 5. THE PLUTONIUM-CARBON SYSTEM
PP 1124-31 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 475 72 032 KOHL FJ STEARNS CA
1. VAPORIZATION OF SOME GROUP-III METAL-METAL OXIDE SYSTEMS. MASS SPECTROMETRIC IDENTIFICATION OF INDIUM GALLIUM OXIDES (INGAO AND INGAO₂) AND GALLIUM ALUMINUM OXIDE (GAALO). 2. OXIDATION/VAPORIZATION OF SILICIDE COATED COLUMBIUM BASE ALLOYS (MASS SPECTROSCOPY)
N71-23111 AND N72-14548. 18P AND 52P. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, LEWIS RESEARCH CENTER, CLEVELAND, OHIO. NTIS
- 475 72 033 KOLOSOV EN
MASS SPECTROMETRIC INVESTIGATION OF THE SYSTEM LiF-ALF₃
VESTN. MOSK. UNIV., SER. II, KHIM., NO. 1, 54, 1972 IN RUSSIAN
- 475 72 034 KORDIS J GINGERICH KA
GASEOUS PHOSPHORUS COMPOUNDS. 8. THERMODYNAMIC STUDY OF ANTIMONY MONOPHOSPHIDE WITH A MASS SPECTROMETER
J. PHYS. CHEM., 76, 2336, 1972
- 475 72 035 KORENEV YM KARASEV NM TIMOSHIN IA
MASS SPECTRAL THERMODYNAMIC STUDY OF BINARY SYSTEMS FORMED BY CHALCOGENIDES OF SECOND GROUP. 1. ZNS-ZNSE SYSTEM
ZH. FIZ. KHIM., 46, 1714, 1972
- 475 72 036 KUBASCHE P ALCOCK CB
THERMODYNAMIC PROPERTIES OF AG + SN ALLOYS
J. CHEM. THERMODYN., 4, 259, 1972
- 475 72 037 MAKAROV AV NIKITIN OT
INTERPRETATION OF MASS SPECTRA OF VAPORS OF METABORATES OF ALKALI METALS
HIGH TEMP. USSR (ENGL. TRANS.), 9, 981, 1971
- 475 72 038 MALCHEVSKII VA
MASS SPECTROMETRIC STUDY OF THE RELATIONSHIP BETWEEN MECHANICAL DESTRUCTION AND THERMAL DEGRADATION OF NITROCELLULOSE
VYSOKOMOLEK. SOEDIN., SER. A, 13, 2078, 1971 IN RUSSIAN
- 475 72 039 MILLER WJ
MASS SPECTROMETRIC STUDY OF COMBUSTION FLAMES
AD-729 333. AEROCHEM RESEARCH LABS. INC., PRINCETON, N.J. 44P. NTIS
- 475 72 040 MILNE TA BEACHEY JE GREENE FT
1. MASS SPECTROMETRIC STUDIES OF GRAPHITE VAPORIZATION AT HIGH TEMPERATURES. 2 AND 3. VAPORIZATION KINETICS AND THERMODYNAMICS OF GRAPHITE USING THE HIGH PRESSURE MASS SPECTROMETER
AD-732 271, AD-733 562, AND AD-735 763, 1971. MIDWEST RESEARCH INST., KANSAS CITY, MO. 75P, 15P, AND 15P. NTIS
- 475 72 041 MUENOW DW MARGRAVE JL
MASS SPECTROMETRIC OBSERVATIONS OF GASEOUS PHOSPHORUS SULFIDES AND OXSULFIDES
J. INORG. NUCL. CHEM., 34, 89, 1972
- 475 72 042 RAYCHAUDHURI PK
MASS SPECTROMETRIC AND GALVANIC CELL STUDIES OF THE THERMODYNAMIC PROPERTIES OF SOLID SILVER-PALLADIUM ALLOYS
THESIS. NORTHWESTERN UNIV., EVANSTON, ILL., UNIV. MICROFILMS ORDER NO. 71-30,924. DISS. ABS., 328, 6, 3480, 1971
- 475 72 043 ROLINSKI EJ HOCH M (2) OBLINGER CJ (2)
1. REVIEW OF SOME EXPERIMENTAL PROBLEMS IN STUDYING THERMODYNAMIC BEHAVIOR OF ALLOYS (MASS SPECTROSCOPY). 2. DETERMINATION OF THERMODYNAMIC INTERACTION PARAMETERS IN SOLID V-TI ALLOYS USING THE MASS SPECTROMETER. 3. DETERMINATION OF THERMODYNAMIC INTERACTION PARAMETERS IN SOLID V-TI-CR ALLOYS USING THE MASS SPECTROMETER
1. AD-731 536. AIR FORCE MATERIALS LAB., WRIGHT-PATTERSON AFB, OHIO. 58P. NTIS. 2 AND 3. MET. TRANS., 2, 2613, 1971 AND 3, 1413, 1972
- 475 72 044 ROUQUEROL J
PYRIMIDE ET APPLICATION IMMEDIATE DE L'ANALYSE THERMOUE A VITESSE DE DECOMPOSITION CONSTATE. INTERET DE SON COMPLAGE AVEC LA CALORIMETRIE, LA THERMOGRAVIMETRIE, LA SPECTROGRAPHIE DE MASSE
J. THERMAL ANAL., 4, 1, 1972. FROM COLLOQUIUM ON THE THERMOANALYTICAL METHODS AND THEIR APPLICATIONS, PARIS, 1971
- 475 72 045 RUDLOFF WK
KINDS AND AMOUNTS OF DECOMPOSITION PRODUCTS IN THE THERMAL DEGRADATION OF SPACECRAFT MATERIALS (GAS CHROMATOGRAPHY, MASS SPECTROSCOPY, TOXICITY)
N71-33231. IIT RESEARCH INST., CHICAGO, ILL. 72P
- 475 72 046 SAKANOTO R OZAWA T TAKAHASHI Y (1) KANAZASH M (2)
1. MASS SPECTROMETRIC THERMAL ANALYSIS OF IMPURITIES IN EPOXY RESINS. 2. MASS SPECTROMETRIC THERMAL ANALYSIS OF POLY(METHYL METHACRYLATE) OF HIGH MOLECULAR WEIGHT
J. APPL. POLYM. SCI., 16, 1047, 1972 AND THERMOCHIM. ACTA, 3, 291, 1972
- 475 72 047 SEIVER RL
VAPORIZATION THERMODYNAMICS OF SAMARIUM DICARBIDE AND THULIUM DICARBIDE
THESIS. MICHIGAN STATE UNIV., EAST LANSING, 1971. 102P. UNIV. MICROFILMS ORDER NO. 72-8777
- 475 72 048 SEMINOV GA POPKOV OS (1) SOLOVEIC AI (1)
1. MASS SPECTROMETRY OF EVAPORATION IN BaO-SC₂O₃ AND BaO-AL₂O₃ SYSTEMS. 2. MASS SPECTROMETRY OF THE EVAPORATION PROCESSES OF BARIUM AND MAGNESIUM PERRHENATES
ZH. FIZ. KHIM., 46, 1568, 1972 AND ZH. NEORG. KHIM., 17, 1819, 1972 IN RUSSIAN
- 475 72 049 SHCHEREDIN VP SIDOROV LN
MASS SPECTROMETRY IN STUDYING THERMODYNAMIC PROPERTIES OF NAF-BEF₃ BINARY SYSTEMS. 4. TEMPERATURE DEPENDENCIES OF PARTIAL PRESSURES. 5. ENTHALPY OF (NAF)₃BEF₃ MELTING AND FORMATION
ZH. FIZ. KHIM., 45, 1268 AND 1535, 1971 IN RUSSIAN
- 475 72 050 SIDOROV LN ALIKHANI AS (1) SHOL'TS VB (1) BELOUSOV VI (2) AKISHIN PA (2)
1. DETERMINATION OF RELATIVE CROSS SECTION OF LISC₄ IONIZATION BY METHOD OF MUCH LESS THAN INVERSE MUCH GREATER THAN ISOTHERM. 2. MASS SPECTROMETRY IN STUDYING THERMODYNAMIC PROPERTIES OF NAF-BEF₂ SYSTEM. VI. TEMPERATURE DEPENDENCE OF PARTIAL PRESSURES AND ENTHALPY OF DISSOCIATION OF COMPLEX MOLECULES
DOKL. AKAD. NAUK SSSR, 200, 149, 1971 AND ZH. FIZ. KHIM., 45, 3007, 1971 IN RUSSIAN

- 475 72 051 SIDOROV LN SHOL'TS VB
1. THERMODYNAMICS OF TWO COMPONENT SYSTEMS WITH COMPLEX VAPOR COMPOSITION. III. AZEOTROPE IN HORIZONTAL INFLECTIONAL TANGENT. 2. QUESTIONS ON THERMODYNAMICS OF TWO COMPONENT SYSTEMS WITH A COMPLEX MOLECULAR COMPOSITION IN VAPOR. V. SPECIAL DIAGRAM POINTS FOR COMPOUNDS. 3. MASS SPECTROMETRIC INVESTIGATION OF TWO COMPONENT SYSTEMS OF COMPLEX VAPOUR COMPOSITION BY ISOTHERMAL EVAPORATION METHOD
ZH. FIZ. KHIM., 45, 3015, 1972, 46, 27, 1972, AND J. MASS SPECTRY, ION PHYS., 8, 437, 1972, 63 REFERENCES
- 475 72 052 SIEKHAUS W JONES R OLANDER O
INVESTIGATION OF HIGH TEMPERATURE REACTION OF OXYGEN WITH GRAPHITE BY MOLECULAR BEAM AND MASS SPECTROMETRIC TECHNIQUES
J. VAC. SCI. TECHNOL., 9, NO. 2, 955, 1972
- 475 72 053 SKINNER MB
MASS SPECTROMETRIC STUDIES OF GASEOUS OXIDES OF RHENIUM AND OF THE LANTHANUM TRIFLUORIDE DIMER
THESIS, UNIV. OF CALIFORNIA, BERKELEY, MICROFILMS ORDER NO. 71-15,887, DISS. ABS., 32B, 1, 215, 1971
- 475 72 054 SMOLDERE JJ WENDT JF
LOW DENSITY, HIGH TEMPERATURE GAS DYNAMICS
AD-740 989, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U. S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1972
- 475 72 055 SRIVASTAVA RD FARBER M (1)
1. THERMODYNAMIC PROPERTIES OF THE BORON-CHLORINE-FLUORINE SYSTEM FROM MASS SPECTROMETER INVESTIGATIONS. 2. EFFUSION-MASS SPECTROMETRIC STUDY OF THE THERMODYNAMIC PROPERTIES OF BO(-) AND BO2(-). 3. EFFUSION-MASS SPECTROMETRIC STUDY OF THE THERMODYNAMIC PROPERTIES OF ALO(-) AND ALO2(-). 1. AD-735 239, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1970, 2. TRANS. FARADAY SOC., 67, 2941, 1971, 3. J. CHEM. SOC., FARADAY TRANS., II, 68, 1388, 1972
- 475 72 056 STEELE W BOURGELA F
EXPLORATORY DEVELOPMENT TO STUDY GRAPHITE VAPORIZATION KINETICS AND THERMODYNAMICS USING THE MODULATED BEAM MASS SPECTROMETER
AD-744 493 AND AD-744 494, 1971 AND 1972, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151
- 475 72 057 STORMS EK
VAPORIZATION BEHAVIOR OF THE DEFECT CARBIDES. 2. Y-C SYSTEM
HIGH TEMP. SCI., 3, NO. 2, 99, 1971
- 475 72 058 SUETTERLIN L
ON THE FORMATION AND DEPOSITION OF PYROCARBON FROM METHANE IN THE TEMPERATURE RANGE OF 1650 TO 2150 DEGREES C
JUL-735-RW, KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, INSTITUT FUER REAKTORWERKSTOFFE, FEB. 1971, 96P IN GERMAN
- 475 72 059 SULTANOV AS
STUDY OF VAPOR COMPOSITION OF INDIUM CHLORIDES WITH AN APPLICATION OF MASS SPECTROMETRY OF POSITIVE AND NEGATIVE IONS
ZH. NEORG. KHIM., 17, 587, 1972 IN RUSSIAN
- 475 72 060 TSIGELMAN GE
INTENSITY OF ION COMPONENT IN VAPORS OF SOLID SUBSTANCES HEATED BY ELECTRON BEAM AND ITS UTILIZATION IN MASS SPECTROMETRIC ANALYSIS
ZH. TEKH. FIZ., 42, 667, 1972 IN RUSSIAN
- 475 72 061 UY OM SRIVASTAVA RD FARBER M
1. MASS SPECTROMETRIC DETERMINATION OF HEATS OF FORMATION OF GASEOUS BO2 AND BOF2. 2. MASS SPECTROMETRIC DETERMINATION OF THE HEATS OF FORMATION OF THE GASEOUS MOLECULES ALOF2 AND ALF2
HIGH TEMP. SCI., 3, 462, 1971 AND 4, 227, 1972
- 475 72 062 WAGNER S SODECK G (1) NECKEL A (1) SHADE DJ (2) ST P (2)
1. THERMODYNAMIC EXCESS QUANTITIES OF LIQUID BINARY SILVER-COPPER BY MASS SPECTROMETRY. 2. ACTIVITIES IN DILUTE SOLUTIONS OF CHROMIUM AND IRON IN NICKEL AT 1600 DEGREES C BY MASS SPECTROMETRY
HIGH TEMP. SCI., 3, 481, 1971 AND MET. TRANS., 3, 47, 1972
- 475 72 063 WEIDNER CW
DETERMINATION OF ACTIVITIES AND REACTION RATES IN ALLOY MELTS BY MASS SPECTROMETRIC METHODS: FE-V, CU-AL, FE-SI, CU-SI, AND FE-S-O SYSTEMS
THESIS, OHIO STATE UNIV., COLUMBUS, 1971, 165P, UNIV. MICROFILMS ORDER NO. 71-22,546
- 475 72 064 WEIGEL F TER MEER N
THERMAL DECOMPOSITION OF AMERICIUM(III) OXALATE, FORMATE, AND CARBONATE
Z. NATURFORSCH., 26B, 504, 1971 IN GERMAN
- 475 72 065 WU CH
MASS SPECTROSCOPIC DETERMINATION OF THE HEAT OF FORMATION AND THE INVESTIGATION OF THE EVAPORATION BEHAVIOR OF EUN, BN, AND ALN
JUL-739-PC, KERNFORSCHUNGSANLAGE, JUELICH, WEST GERMANY, INSTITUT FUER PHYSIKALISCHE CHEMIE, MARCH 1971, 60P IN GERMAN
- 475 72 066 WU RLC
VAPORIZATION AND THERMODYNAMICS OF RARE EARTH SULFIDES. I. VAPORIZATION STUDY OF GADOLINIUM SULFIDES. II. ISOMOLECULAR SULFUR EXCHANGE REACTIONS OF RARE EARTH SULFIDES
COO-1140-200, THESIS, UNIV. OF KANSAS, LAWRENCE, JULY 1971, 521P, UNIV. MICROFILMS ORDER NO. 72-11, 819, DISS. ABS., 32B, 10, 5727, 1972
- 475 72 067 YAMAJI T KATO E
MASS SPECTROMETRIC STUDY OF THERMODYNAMIC PROPERTIES OF AG-SN SYSTEM
MET. TRANS., 3, 1002, 1972
- 475 72 068 ZAKHAROV VP PROTAS IM
MASS SPECTROMETRY OF EVAPORATION OF A(III)B(V)-TYPE SEMICONDUCTOR COMPOUNDS BY OPTICAL QUANTUM GENERATOR RADIATION
ZH. TEKH. FIZ., 42, 670, 1972 IN RUSSIAN
- 475 72 069 ZAKHAROV YA ISAEV RN NEVOSTRUUEV VA VAKHOVSKAYA LA
EFFECT OF PRIOR IRRADIATION ON THE THERMAL DECOMPOSITION OF AMMONIUM PERCHLORATE
KHIM. VYS. ENERG., 3, 443, 1969 IN RUSSIAN, FULL COPY OF THIS PAPER IS HELD BY DTIC

- 475 72 070 ZMBOV KF
HEATS OF FORMATION OF LOWER ACTINIDE FLUORIDES FROM MASS SPECTROMETRIC STUDIES
PP 423-7 OF PROCEEDINGS OF THE 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS,
POLISH SCIENTIFIC PUBLISHERS, WARSAW, 1969. FROM CONF-690834, WARSAW, POLAND, AUG. 31, 1969
- 480 72 001 ABERTH W SPINDT CA SPERRY RR
MULTIPOINT FIELD IONIZATION SOURCE MASS SPECTROMETER
PAPER M12 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS SPONSORED
BY THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (ASMS), IN COOPERATION WITH ASTM COMMITTEE E-14,
DALLAS, TEXAS, JUNE 4-9, 1972
- 480 72 002 ALBRECHT BH PLATTNER JR HAGERMAN D MARKEY S MURPHY RC
MEASUREMENT OF LEVELS OF BIOLOGICALLY SIGNIFICANT MOLECULES BY STABLE ISOTOPE TECHNIQUES
PAPER J14 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS SPONSORED
BY THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (ASMS), IN COOPERATION WITH ASTM COMMITTEE E-14,
DALLAS, TEXAS, JUNE 4-9, 1972
- 480 72 003 APPELL J FOURNIER PG FEHSENFELD FC DURUP J
TRANSLATION SPECTROSCOPY OF H(-) PRODUCED BY COLLISION OF H(+) ON VARIOUS TARGETS
PAPER S6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS SPONSORED BY
THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (ASMS), IN COOPERATION WITH ASTM COMMITTEE E-14,
DALLAS, TEXAS, JUNE 4-9, 1972
- 480 72 004 ARSENAULT GP DOLHUN JJ
APPLICATIONS OF CHEMICAL IONIZATION MASS SPECTROMETRY
PAPER M1 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 005 AST T BEYNON JH COOKS RG
ION KINETIC ENERGY LOSS SPECTRA
PAPER S3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 006 AUE DH WEBB HM BOWERS MT
ACCURATE RELATIVE PROTON AFFINITIES
PAPER S10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 007 BACZYNSKY J L WNUK RJ
MASS SPECTRAL FRAGMENTATION OF PROSTAGLANDINS
PAPER E7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 008 DRIENGLER AL DAIEMAN RM MILLIGAN J S MILLIGAN E
A COMBINED ION PROBE/SPARK SOURCE ANALYSIS SYSTEM
PAPER I12 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 009 BARIL M PAQUIN R
A NEW DYNAMIC MASS SPECTROMETER FOR THE ANALYSIS OF MACROMOLECULES
PAPER D3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 010 BAZINET ML MERRITT C
MASS SPECTRA OF ORGANOLEAD SUBSTITUTED NITROGEN HETEROCYCLES
PAPER L13 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 011 BEAVERS WA RINEHART KL
PERFLUORINATED METAL DIKETONATES. POTENTIAL HIGH RESOLUTION MASS MARKERS
PAPER C5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 012 BELL NW

IDENTIFICATION OF MASS SPECTRA BY A COMPUTERIZED LIBRARY SEARCH
PAPER R5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 013 BENNETT SL FIELD FH
REVERSIBLE REACTIONS OF GASEOUS IONS. 6. THE NH₃-CH₄, H₂S-CH₄, AND CF₄-CH₄ SYSTEMS AT LOW
TEMPERATURES
PAPER S1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 014 BENNETT SL FIELD FH
REVERSIBLE REACTIONS OF GASEOUS IONS. THE HYDROGEN SYSTEM, AND FURTHER STUDIES ON THE EQUILIBRIUM
H₃O(+) + H₂O = H(H₂O)₂(+)
PAPER S2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 015 BENNINGHOVEN A
THE APPLICATION OF A STATIC METHOD OF SECONDARY ION MASS SPECTROSCOPY (SIMS) TO DIFFERENT SURFACE
PROBLEMS
PAPER L5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 016 BERKEY E HICKAM WM
ION PROBE MASS SPECTROMETRIC ANALYSES OF BUBBLES IN DOPED TUNGSTEN
PAPER L9 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 017 BERKOWITZ J DENHAR JL
USE OF PHOTOELECTRON SPECTRA IN PREDICTING MASS SPECTRA
PAPER F1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 018 BERTRAND M BEYNON JH COOKS RG
ENERGY PARTITIONING DATA AS AN ION STRUCTURE PROBE
PAPER H3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 019 DEWILDER RJ FLANIGAN E GREENE LJ FRIEDMAN L
MASS SPECTRAL STUDY OF SURFACE EFFECTS ON THE VOLATILITY OF SMALL SAMPLES OF PEPTIDE DERIVATIVES
PAPER J10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 020 BHATTACHARYA AK POWELL WR FUTRELL JH
STUDIES IN CHEMICAL IONIZATION MASS SPECTROMETRY. 1. KETONES
PAPER P6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 021 BILLETS S LIETMAN PS FENSELAU C
STRUCTURALLY SIGNIFICANT FRAGMENTATION OF URINARY GLUCURONIDES
PAPER E3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 022 BLACK PJ COHEN AI
AUTOMATIC OFFLINE COMPUTER PROCESSING OF LOW AND HIGH RESOLUTION MASS SPECTRA VIA FM ANALOG TAPE
PAPER R12 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS

- 480 72 023 BOETTGER HG
MASS SPECTRA OF ORGANIC COMPOUNDS. 4. ELECTRON IMPACT AND CHEMICAL IONIZATION SPECTRA OF C-GLUCOSYL
COMPOUNDS OF AROMATIC AGLYCONES AND THEIR VOLATILE DERIVATIVES
PAPER C2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 024 BOHME DK HEMSWORTH RS RUNDLE HW SCHIFF HI
A KINETIC ANALYSIS OF THE APPROACH TO AND ATTAINMENT OF EQUILIBRIUM IN SELECTED PROTON TRANSFER
REACTIONS
PAPER Q10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 025 BOULDIN WJ CONE C MASELES FC
HIGH RESOLUTION NEGATIVE ION MASS SPECTROMETRY OF ORGANIC COMPOUNDS
PAPER C4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 026 BOULTON AA
MASS SPECTROMETRIC DETECTION OF VERY SMALL QUANTITIES OF BIOLOGICALLY IMPORTANT AMINES
PAPER G2 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 027 BOUVY G GAUNEAU M
SPARK SOURCE MASS SPECTROGRAPHY IN A TELECOMMUNICATION RESEARCH CENTER
PAPER 15 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 028 BOWERS MT LAUDENSLAGER JB SU T
MECHANISM OF CHARGE TRANSFER REACTIONS: THE EFFECT OF A PERMANENT DIPOLE
PAPER S9 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 029 BRACKMANN RT MCKEOWN MC IRVING P WIST AO
ANALYSIS OF PARTICULATE MATTER IN AIR BY MODULATED BEAM MASS SPECTROMETRY
PAPER H8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 030 BRIGGS JP YAMDAgni R KEBARLE P
DETERMINATION OF PROTON AFFINITIES BY MEASUREMENT OF IONIC EQUILIBRIA AND THEIR TEMPERATURE
DEPENDENCE
PAPER Q8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 031 BRUBAKER WM
A NEW APPROACH TO THE IMPLEMENTATION OF A DELAYED DC RAMP QUADRUPOLE MASS FILTER
PAPER M5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 032 BRUBAKER WM MARSHALL JH
A MINIATURIZED, AUTOMATED QUADRUPOLE BREATH ANALYZER FOR USE BY AN ASTRONAUT
PAPER M6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 033 BURLINGAME AL CHANG JJ HOLLAND PT
INSTRUMENTAL PARAMETERS DETERMINING THE PERFORMANCE OF A HIGH RESOLUTION MASS SPECTROMETRIC SYSTEM
PAPER Q7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 034 BUTTRILL SE JUSTER I
ION-MOLECULE REACTIONS OF METHYL MERCAPTANS WITH OLEFINS AND ACETYLENES
PAPER Q1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 035 CARRICK A
ECONOMICAL, HIGH PERFORMANCE M.S. DATA ACQUISITION
PAPER T1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 036 CARRICO JP MUELLER RK
- SOME RECENT DEVELOPMENTS IN QUADRUPOLE MASS SPECTROMETRY INSTRUMENTATION
PAPER M3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 037 CARRICO JP SCHAEFER E RICE J
A MINIATURE MATTAUCH-MERZOG MASS SPECTROMETER
PAPER Q8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 038 CHAIT EM BLANCHARD C
A NEW CHEMICAL IONIZATION MASS SPECTROMETER
PAPER P8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 039 CHAMBERLAIN AT PAGE FM POWELL DC
THE DETECTION OF NEGATIVE IONS IN A COUPLED MAGNETRON AND QUADRUPOLE MASS ANALYSER
PAPER B1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 040 CHAMBERLIN WS FRENCH JB REID NM
REAL TIME COMPOSITION MONITORING OF A HIGH VELOCITY MOLECULAR BEAM USING A QUADRUPOLE MASS ANALYZER
PAPER M7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 041 CHAPMAN JR COMPTON KR DONE D MERREN TO TENNANT PW
NEW TECHNIQUES IN SINGLE AND MULTIPLE ION MONITORING USED IN QUANTITATIVE STEROID ESTIMATION
PAPER J11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 042 CHUPKA WA BERKOWITZ J MILLER SI
PHOTOIONIZATION MASS SPECTROMETRIC STUDY OF BENZENE AND SOME DERIVATIVES
PAPER C11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 043 CLOW RP TIERNAN TO
NEGATIVE ION PROCESSES IN NITROUS OXIDE AND CARBON DIOXIDE
PAPER B8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 044 COLBY BN EVANS CA HENDRICKS CD
MASS SPECTROMETRIC AND OPERATIONAL STUDIES OF ELECTROHYDRODYNAMIC IONIZATION SOURCES
PAPER G5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 045 COMPTON RN REINHARDT PW COOPER CD
ANIONS PRODUCED BY CESIUM COLLISIONS WITH SUCCINIC AND MALEIC ANHYDRIDE
PAPER B3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 046 CONZEMIUS RJ SVEC HJ
AUTOMATION CONTROL OF THE ION ILLUMINATION ANGLE IN A SPARK SOURCE MASS SPECTROMETER
PAPER L4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS

- 480 72 047 COOK JC RINEHART KL
ON-LINE COMPUTERIZED ELEMENTAL COMPOSITION DETERMINATIONS FROM SINGLE FOCUSING MASS SPECTROMETERS
PAPER R11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 048 COOKS RG CAPRIOLI RM JONES EG BEYRON JM
THE ENOLIC ION $R-C(OH)=CH_2(+) :$ STRUCTURE AND REACTIVITY
PAPER C7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 049 COOPER CO COMPTON RN SCHWEINLER HC ANDERSON VE
DISSOCIATIVE ELECTRON ATTACHMENT TO MALEIC AND SUCCINIC ANHYDRIDE
PAPER B2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 050 COSTELLO CE SAKAI T BIEMANN K
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PAPER G4 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 051 CUNNINGHAM AJ PAYZANT JD YAMDAgni R KEBARLE P
KINETIC STUDIES OF THE ESTABLISHMENT OF IONIC EQUILIBRIA IN REACTIONS INVOLVING POSITIVE AND
NEGATIVE IONS
PAPER 09 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 052 DAY AG BEGGS DP VESTAL ML
THE SELECTIVE ANALYSIS OF AUTOMOBILE 'EXHAUST'
PAPER N4 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 053 DECORPO JJ MCDOWELL MV SAALFELD FE
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PAPER D10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 054 DERRICK PJ FALICK AM BURLINGAME AL
MECHANISTIC STUDIES IN ORGANIC MASS SPECTROMETRY AT 10(TO-12) TO 10(TO-5) SEC USING FIELD IONIZATION
PAPER H4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 055 DIETZ LA SHEFFIELD JC
SPECTROMETER FOR MEASURING SECONDARY ELECTRON YIELDS INDUCED BY ION IMPACTS ON THIN-FILM OXIDE
SURFACES
PAPER D13 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 056 DJERASSI C
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PAPER M1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 057 DONOHUE DL HARRISON WW
RELATIVE TEMPERATURE MEASUREMENTS OF A SPARK SOURCE DISCHARGE
PAPER 19 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 058 DOUGHERTY RC ROBERTS JD
NEGATIVE CHEMICAL IONIZATION MASS SPECTRA
PAPER M5 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 059 DRAFFAN GH CLARE RA WILLIAMS FM KRAUER B DAVIES OS
MEASUREMENT OF BARBITURATES AND THEIR METABOLITES IN SMALL VOLUMES OF BIOLOGICAL FLUIDS BY
QUANTITATIVE GAS CHROMATOGRAPHY-MASS SPECTROMETRY
PAPER J2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 060 DUGAN JV CANRIGHT WB PALMER RW
ROTATIONAL AND VIBRATIONAL EFFECTS IN ION-DIPOLE COLLISIONS
PAPER P12 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 061 DZIDIC I HORNING EC STILLWELL RN GRIFFIN GW
BIOMEDICAL APPLICATIONS OF PLASMA CHROMATOGRAPHY-MASS SPECTROMETRY
PAPER J9 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 062 ELLEFSON RE DENISON AB WEBER JH
A STUDY OF THE EXCITED IONIC STATES OF $CO_2(+) , H_2S(+) ,$ AND $N-CSH_2(+) :$ BY OPTICALLY MODIFIED MASS
SPECTROSCOPY
PAPER F4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 063 ELLIOTT WH HYDE RM
COMPARISON OF MASS SPECTRA OF EPIMERIC BILE ACIDS
PAPER F5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 064 ELWOOD TA FUTRELL JH FENSELAU C
ICR CHEMICAL IONIZATION OF ALDEHYDES
PAPER S11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 065 ESKEW TJ SMITH AJ
PERFORMANCE OF A SPARK SOURCE INSTRUMENT WITH IMPROVED CONTROL OF SPARK CONDITIONS AND WITH A
DIGITAL RATIO CIRCUIT
PAPER L3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 066 EVANS CA COLBY BN WOODHOUSE JB
A COMPARATIVE STUDY OF THE ION SPECIES PRODUCED BY ION BOMBARDMENT AND THE RF SPARK
PAPER L6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 067 EVANS CA COLBY BN HENDRICKS CD
AN ELECTROHYDRODYNAMIC ION SOURCE FOR MASS SPECTROMETRY
PAPER 04 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 068 FARRAR H
A MASS SPECTROMETER SYSTEM TO DETERMINE LOW LEVELS OF HELIUM IN SOLIDS
PAPER 09 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 069 EINHOLF N FENSELAU C
GAS PHASE ANALYSIS OF PHOSPHOLIPIDS
PAPER E2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 070 FINNIGAN RE BONELLI EJ KNIGHT JB STORY MS
ANALYSIS OF ORGANIC CONTAMINANTS IN WATER BY GC/MS/COMPUTER USING BOTH ELECTRON IMPACT AND CHEMICAL
IONIZATION MASS SPECTROMETRY
PAPER H10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS

- 480.72 071 FIQUEY-FAYARD F TRONC M AZRIA R
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PAPER B7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480.72 072 FLESCH GD SVEC HJ
ION SOURCE CHEMISTRY OF THE LOW MOLECULAR WEIGHT ALKANES
PAPER F6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480.72 073 FOLK TL PATEL SM
ELECTRON IMPACT STUDIES OF METHYLMERCAPTOBENZOTHAZOLES AND THEIR OXYGEN ANALOGS
PAPER A2 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480.72 074 FOLK TL SINGH H SCHEUER PJ
MASS SPECTRA OF JUGLONE DERIVATIVES, HYDROXY, ACETYL, AND ETHYL SUBSTITUENTS
PAPER C1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480.72 075 FOLTZ RL
CHEMICAL IONIZATION MASS SPECTRA OF MACROLIDE ANTIBIOTICS
PAPER N3 IN PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480.72 076 FRANKLIN JL
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- 480.72 080 GARCIN F RADOUCO-THOMAS S GAGNE R WANG YK POUSSART D
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- 480.72 083 GIBERT JM GELPI E
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- 480.72 086 GORDON SM KRIGE GJ BROWN JF
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- 480.72 087 GRAYSON MA LEVY RL WOLF CJ
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- 480 72 098 HARAND PW DI DOMENICO A FRANKLIN JL
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- 480 72 101 HARVEY DJ HORNING MG
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- 480 72 107 HOGG AM NAGABHUSHAN TL
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- 480 72 129 LING-FAI WANG J PETTY F MARGRAVE JL FRANKLIN JL
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- 480 72 130 LONGEVIALLE P MILNE GWA FALES HM
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- 480 72 161 ROBOZ J KRUMAN D HUTTERER F
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- 480 72 162 ROHWEDDER WK BUTTERFIELD RO WOLF DJ DUTTON HJ
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- 480 72 164 ROTH JR COLBY BN MORRISON GM
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- 480 72 165 ROURKE FH MEYHERTER JL
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- 480 72 166 RYAN JF HUNT DF
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- 480 72 168 SCHEPPELE SE MITCHUM RK KINNEBERG KF MEISELS GG EMEL RA
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- 480 72 170 SCHOELLER DA HAYES JM MACPHERSON CA BLAKELY RF WEINSCHEN WG
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- 480 72 171 SCHROEER JM
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- 480 72 176 SHARKEY AG SHULTZ JL KESSLER T SCHMIDT CE FRIEDEL RA
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- 480 72 177 SMITH AJ MANNAERTS JP ESKEW TJ STRAND TL MCCARTNEY PM
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APPLICATIONS OF ARTIFICIAL INTELLIGENCE TO THE INTERPRETATION OF HIGH RESOLUTION MASS SPECTRA
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- 480 72 179 SMITH DL FUTRELL JH
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- 480 72 180 SOCHA AJ BAKER CW
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- 480 72 181 STEARNS CA KOHL FJ
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- 480 72 182 STUCKDALE JAD
ION CONDENSATION REACTIONS IN BENZENE VAPOR
PAPER O11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 183 STORY MS
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- 480 72 184 STUCKEY WK WACHI FM KNIGHT VL
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PAPER O5 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 185 SYKES RJ MCMURRAY WJ GAGE J ARNESON P WASSERMAN HH
LIPSKY SR
STUDIES ON C(13) INCORPORATION IN PRODIGIOSIN BY MASS SPECTROMETRY
PAPER J13 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 186 TAYLOR CE MCDANIEL WH MCGUIRE JM
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PAPER M11 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 187 TAYLOR ML HUGHES BM WOLF WR SIEVERS RE TIERNAN TO
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PAPER J4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 188 VANDENHEUVEL WJA SMITH JL FIRESTONE RA BECK JL
MASS SPECTROMETRY OF METHYLCYCLOSILOXANES
PAPER A6 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 189 VASILE MJ FALCONER WE JONES GR
A MOLECULAR BEAM MASS SPECTROMETRIC STUDY OF METAL PENTAFLUORIDES
PAPER L12 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 190 VENKATARAGHAVAN R MICHNOWICZ J MCLAFFERTY FW
SIGNAL ENHANCEMENT IN REAL TIME FOR HIGH RESOLUTION MASS SPECTRA
PAPER R10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 191 VESTAL ML ELWOOD TA WOJCIK LH FUTRELL JH
A NEW CHEMICAL IONIZATION MASS SPECTROMETER
PAPER P10 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS

- 480 72 192 VIDAL GP GALMARD PL LANUSSE PC
DETERMINATION OF SULFUR TRACES IN IRON AND STEELS BY SPARK SOURCE MASS SPECTROGRAPHY
PAPER 13 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 193 VON MINDEN DL MCCLOSKEY JA
THE MASS SPECTRA OF N,O-PEALKYLATED DERIVATIVES OF NUCLEOSIDES
PAPER E1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 194 VORACHEK JH MEISELS GG
STRUCTURE OF GROUND STATE IONS
PAPER 05 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 195 VOUROIS P HARVEY DJ
FRAGMENTATION MECHANISMS LEADING TO CHARACTERISTIC IONS IN THE MASS SPECTRA OF STEROID
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PAPER A7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 196 WACHI FM GILMARTIN DE
HEAT OF FORMATION AND ENTROPY OF C3 MOLECULE
PAPER 04 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 197 WACHI FM GILMARTIN DE
VAPOR PRESSURE AND HEAT OF VAPORIZATION OF COBALT
PAPER 06 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 198 WACHS T BENTE PF SAKAI I MCLAFFERTY FW
GEOMETRY REVERSAL OF A COMMERCIAL MASS SPECTROMETER FOR METASTABLE DATA COLLECTION
PAPER 06 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 199 WATSON JT PELSTER O SWEETMAN BJ FOLICH JC
PROSTAGLANDIN ANALYSIS WITH A GC-MS-COMPUTER SYSTEM
PAPER E8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 200 WEBER JH ELLEFSON RE DENISON AB
RESOLUTION OF THE FINE STRUCTURE IN THE IONIZATION EFFICIENCY CURVES FOR H2S(+), C2H2(+), C6H6(+),
AND C6D6(+)
PAPER F7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 201 WIEBERS JL
SEQUENCE ANALYSIS OF OLIGODEOXYRIBONUCLEOTIDES BY MASS SPECTROMETRY
PAPER J7 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 202 WINKLER HU BECKEY HD
FIELD DESORPTION MASS SPECTROMETRY IN PEPTIDE ANALYSIS
PAPER J8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 203 WOLFF RE GREFF M TELLER G
EFFECT OF THE STERIC HINDRANCE INTRODUCED BY AN AROMATIC RING ON THE FRAGMENTATION OF BIFUNCTIONAL
LONG CHAIN MOLECULES
PAPER A4 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 204 YINON J BOETTGER HG
CHEMICAL IONIZATION STUDIES OF NATURAL COMPOUNDS: ENERGY AND PRESSURE DEPENDENCE
PAPER P3 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 205 YU TY LANPE FW
- ION-MOLECULE REACTIONS IN MONOSILANE
PAPER 03 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 206 ZAVITSANOS PD
ELECTRON ATTACHMENT AND THERMODYNAMIC STUDIES OF ELECTROPHILIC COMPOUNDS
PAPER D1 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS
- 480 72 207 ZERILLI LE CAVALLERI B GALLO G SELVA A
ELECTRON IMPACT INDUCED FRAGMENTATION OF 5-SUBSTITUTED 3-PHENYL-1,2,4-OXADIAZOLES
PAPER C8 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS SPONSORED BY
THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (ASMS), IN COOPERATION WITH ASTM COMMITTEE E-14,
DALLAS, TEXAS, JUNE 4-9, 1972
- 480 72 208 ZWOLINSKI BJ RISINGER AL DICKSON CH
TWENTY-FIVE YEARS OF MASS SPECTRAL DATA COMPILATIONS - API 44 AND TRC DATA PROJECT CATALOGS
PAPER R9 PRESENTED AT THE 20TH ANNUAL CONFERENCE ON MASS SPECTROMETRY AND ALLIED TOPICS SPONSORED BY
THE AMERICAN SOCIETY FOR MASS SPECTROMETRY (ASMS), IN COOPERATION WITH ASTM COMMITTEE E-14,
DALLAS, TEXAS, JUNE 4-9, 1972
- 485 72 001 BEGBIE PJ
A BAKABLE CHANGEOVER VALVE FOR HIGH PRECISION MASS SPECTROMETRIC COMPARISON OF THE ISOTOPIC
COMPOSITION OF GASES
REV. SCI. INSTRUM., 43, 1454, 1972
- 485 72 002 BRANTIGAN JW GOTT VL MARTZ MN
TEFLON MEMBRANE FOR MEASUREMENT OF BLOOD AND INTRAMYOCARDIAL GAS TENSIONS BY MASS SPECTROSCOPY
J. APPL. PHYSIOL., 32, 276, 1972
- 485 72 003 CLARKE RL
PROCEDURE FOR TRANSFER OF T.L.C. PLATE SAMPLES TO THE MASS SPECTROGRAPH
CHEM. IND. (LONDON), 1971
- 485 72 004 COLEMAN ML GRAY J
AN ADJUSTABLE GAS INLET SYSTEM FOR AN ISOTOPE MASS SPECTROMETER
REV. SCI. INSTRUM., 43, 1501, 1972
- 485 72 005 GOLUBCHINA MN PRILUTSKII RE TOKSUBAEV AI
USE OF THE ADMISSION SYSTEM OF THE MI-1309 INSTRUMENT FOR PRECISION ISOTOPIC ANALYSIS
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 1148, 1971. TRANSLATED FROM PRIK. TEKH. EKSP., 14, NO.
4, 170, 1971
- 485 72 006 GOSHCARI B SOLOMON W
NOZZLE BEAM MASS SPECTROMETER SYSTEM FOR STUDYING ONE ATMOSPHERE FLAMES
AD-739 883 NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972

- 485 72 007 GRINLEY RT MUENOW DW (2) LARUE JL (2)
1. MASS SPECTROMETRIC DETERMINATION OF THE ANGULAR DISTRIBUTIONS OF SIMPLE AND COMPLEX SYSTEMS
FLOWING THROUGH CYLINDRICAL ORIFICES. 2. ON A MASS SPECTROMETRIC ANGULAR DISTRIBUTION STUDY OF THE
EFFUSION OF POTASSIUM CHLORIDE VAPOR SYSTEM FROM CYLINDRICAL ORIFICES
J. VAC. SCI. TECHNOL., 9, NO. 1, 246, 1972 AND J. CHEM. PHYS., 56, 490, 1972
- 485 72 008 JUNE MN LOVELADY JL MCFARLIN WA
AN INTEGRATED ION SOURCE GAS CONTROL AND HELIUM-3 RECOVERY SYSTEM
IEEE (INST. ELEC. ELECTRON. ENG.), TRANS. NUCL. SCI., NS-18, NO. 3, 106, 1971
- 485 72 009 NILSSON CA NORSTROM A ANDERSSON K
SIMPLE DEVICE FOR INTRODUCING LIQUIDS, SOLUTIONS, AND THIN-LAYER CHROMATOGRAPHY SAMPLES INTO A MASS
SPECTROMETER VIA DIRECT INLET SYSTEM
J. CHROMATOGR., 73, 270, 1972
- 485 72 010 RAT'KOVSKII IA ISICHENKO AD
KNUDSEN METHOD USED IN THE MSKH-3A MASS SPECTROMETER
PRIB. TEKH. EKSP., P243, 1972 IN RUSSIAN
- 485 72 011 SITTER CW
CONSTANT TEMPERATURE LIQUID NITROGEN COOLED BOAT FOR ARC DISCHARGE ION SOURCES
NUCL. INSTRUM. METHODS, 98, 169, 1972
- 485 72 012 SMITHSON LD
MODIFICATION OF A DIRECT PROBE FOR THE CONTROLLED INTRODUCTION OF MASS SPECTROMETER SAMPLES
ANAL. CHEM., 43, 1142, 1971
- 485 72 013 STUART TS HEROLD EW GAFFRON H
SIMPLE COMBINATION MASS SPECTROMETER INLET AND OXYGEN ELECTRODE CHAMBER FOR SAMPLING GASES DISSOLVED
IN LIQUIDS
ANAL. BIOCHEM., 46, 91, 1972
- 485 72 014 TAL'ROZE VL SKURAT VE GORODETS IG
GLASS AND QUARTZ FLOW MACHINES FOR A CAPILLARY SYSTEM USED TO ADMIT FLUIDS INTO A MASS SPECTROMETER
Zh. Fiz. Khim., 46, 788, 1972 IN RUSSIAN
- 485 72 015 VASILENKO AT MAKHUNKA I MATE Z
INTAKE ON A MASS SEPARATOR USED TO STUDY SHORT LIVED ISOTOPES
PRIB. TEKH. EKSP., NO. 2, 34, 1972 IN RUSSIAN
- 485 72 016 VETSHTEI VE
VALVE ARRANGEMENT FOR ACCURATE AND QUICK INTRODUCTION OF GASES INTO MASS SPECTROMETER
IND. LAB. USSR (ENGL. TRANS.), 38, 1301, 1972
- 487 72 001 ANDERSEN CA HINTHORNE JR
ION MICROPROBE MASS ANALYSIS OF LUNAR SAMPLES, LUNAR SAMPLE PROGRAM
N72-14841, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 487 72 002 BARNES IL SAPPENFI KM SHIELDS WR
THE MASS SPECTROMETRIC ANALYSIS OF SUBPICOGRAM QUANTITIES OF LEAD
COM-72-5023, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1970
- 487 72 003 BARTLE KD
STRUCTURE AND COMPOSITION OF COAL TAR AND PITCH
- REV. PURE APPL. CHEM., 22, 79, 1972
- 487 72 004 BEDRINOV VP
PECULIARITIES OF MASS SPECTROGRAPHIC DETERMINATION OF IMPURITIES IN FILMS OF GALLIUM ARSENIDE
Zh. ANAL. KHIM., 27, 610, 1972 IN RUSSIAN
- 487 72 005 BENNINGHOVEN A MUELLER A (2,3) LOEBACH E (4) TREITZ N (4)
1. BEOBSACHTUNG VON OBERFLAECHEREAKTIONEN MIT DER STATISCHEN METHODE DER SEKUNDARIONEN
MASSSPEKTROSKOPIE. 1. DIE METHODE. 2. SECONDARY ION YIELDS NEAR 1 FOR SOME CHEMICAL COMPOUNDS. 3.
INVESTIGATION OF THE SURFACE OXIDATION OF METALS IN THE SUB-MONOLAYER AND MONOLAYER RANGE WITH THE
STATIC METHOD OF SECONDARY ION MASS SPECTROMETRY. 4. SIMULTANEOUS SIMS, EID, AND FLASH-FILAMENT
INVESTIGATIONS OF INTERACTION OF GASES WITH A TUNGSTEN SURFACE
SURFACE SCI., 28, 541, 1971. PHYS. LTRS, 40A, 169, 1972. THIN SOLID FILMS, 12, 439, 1972. AND J.
VAC. SCI. TECHNOL., 9, NO. 2, 600, 1972
- 487 72 006 BERKEY E SWEENEY GG HICKAM WM
SODIUM CORROSION AND MASS TRANSFER ANALYSIS WITH AN ION PROBE MASS SPECTROMETER
NUCL. TECHNOL., 16, NO. 1, 263, 1972
- 487 72 007 BLOOM H ANTHONY RG
MASS SPECTROMETRIC IDENTIFICATION OF CADMIUM(II) CHLOROBROMIDE
AUSTRALIAN J. CHEM., 25, 23, 1972
- 487 72 008 BOYD DE
DEVELOPMENT OF A SYSTEM TO MAKE QUANTITATIVE MEASUREMENTS WITH THE ELECTRON MICROPROBE
GAT-T-1749, THESIS, UNIV. OF OHIO, ATHENS, AUG. 1971. 103P. GOODYEAR ATOMIC CORP., PIKETON, OHIO.
NTIS
- 487 72 009 CHUPAKHIN MS RAMENDIK GI
A LAYER BY LAYER MASS SPECTROMETRIC METHOD OF ANALYSIS. 5. SENSITIVITY AND ACCURACY OF RECORDING
IMPURITIES IN THIN SAMPLE LAYERS
Zh. ANAL. KHIM., 26, 1390, 1971 IN RUSSIAN
- 487 72 010 FAUCONNIER JC CESARIO J BOUDRY B
ADVANTAGES OF THE TSN 211-03 NUMERIZER IN ANALYZING SOLIDS BY MASS SPECTROMETRY
CEA-R-4248, COMMISSARIAT A L'ENERGIE ATOMIQUE, BRUYERES-LE-CHATL, FRANCE, CENTRE D'ETUDES, NOV.
1971. 60P IN FRENCH
- 487 72 011 FLECHON J MACHIZAU F MARCHAL G
ETUDE PAR SPECTROGRAPHIE DE MASSE, ANALYSE THERMIQUE DIFFERENTIELLE, DIFFRACTION X ET
MICRODIFFRACTION DES LAMES MINCES DE NICKEL-PHOSPHORE NON STABILISEES
COMPT. REND., SER. AB, 274, 274, 1972

- 487 72 012 FOGEL YM
ION-ION EMISSION: A NEW TOOL FOR MASS SPECTROMETRIC INVESTIGATIONS OF PROCESSES ON SURFACE AND IN BULK OF SOLIDS
J. MASS SPECTRY, ION PHYS., 9, 109, 1972, 64 REFERENCES
- 487 72 013 HAQUE CA
COMBINED MASS SPECTROMETRIC AND AUGER ELECTRON SPECTROSCOPIC TECHNIQUES FOR METAL CONTACTS
PP 271-86 OF PROC. OF 6TH INTERNATIONAL SYMPOSIUM ON ELECTRIC CONTACT PHENOMENA, ILLINOIS INST. TECHNOLOGY, CHICAGO, ILL., 1972, FROM SYMPOSIUM, CHICAGO, JUNE 5-8, 1972
- 487 72 014 IVANOV YM
AN ENQUIRY INTO THE HOMOGENEITY REGION OF CDSE BY MEANS OF MASS SPECTROMETRY TECHNIQUE
IZV. AKAO. NAUK SSSR, NEORG. MAT., 8, 1396, 1972 IN RUSSIAN
- 487 72 015 MAIFET YP CHEREPIN VT
ION MASS SPECTRAL MICROSCOPE
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 1587, 1971, TRANSLATED FROM PRIB. TECH. EKSP., NO. 5, 267, 1971
- 487 72 016 MAUL J
DETERMINATION OF IMPLANTATION PROFILES IN SOLIDS BY SECONDARY ION MASS SPECTROMETRY
PHYS. LETT., 41A, 177, 1972
- 487-72-017- MCHUGH JA
APPLICATIONS OF THE ION MICROPROBE MASS ANALYZER TO SURFACE AND BULK SOLIDS ANALYSIS
PP 70 OF 10TH NATIONAL MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY (ABSTRACTS ONLY), SOC. APPLIED SPECTROSCOPY, NEW YORK, 1971, FROM MEETING, ST. LOUIS, MO., OCT. 18-22, 1971
- 487 72 018 NAKAMURA K AOKI S NAKAJIMA Y DOI H TAMURA H
A NEW ANALYTICAL TECHNIQUE FOR INSULATING MATERIALS BY MEANS OF AN ION MICROANALYZER
MASS SPECTRY, JAPAN, 20, 1, 1972 IN ENGLISH
- 487 72 019 NISHIMURA H FUJIWARA T OKANO J
IMPROVEMENT OF DETECTABLE LIMIT OF AN ION PROBE MASS SPECTROMETER
MASS SPECTRY, JAPAN, 19, 205, 1971 IN ENGLISH
- 487 72 020 PALATNIK LS OBOLYANI OA NABOKA MN
MULTIPLE LINES IN MASS SPECTRA OF NIOBIUM AND ITS OXIDES
ZAVOD. LAB., 38, NO. 3, 299, 1972 IN RUSSIAN
- 487 72 021 RIGBY LJ MURDOCH IA
THERMAL VOLATILIZATION ANALYSIS BY MASS SPECTROMETRY
CHAPTER 11 OF DYNAMIC MASS SPECTROMETRY, VOLUME 3, PRICE, D. (ED.), HEYDEN AND SONS LTD., LONDON, 1972
- 487 72 022 STRASHEIM A JACKSON PF
ANALYTICAL SURVEY OF RAW BULLIUM FROM SOUTH AFRICAN GOLD MINES BY MASS SPECTROGRAPHY
J. S. AFR. INST. MINING METAL., 72, NO. 5, 121, 1971
- 487 72 023 SWEENEY GC BERKEY E
APPLICATION OF MASS SPECTROMETRY TO THE ANALYSIS OF SEMICONDUCTOR MATERIALS
PP 71-2 OF 10TH NATIONAL MEETING OF THE SOCIETY FOR APPLIED SPECTROSCOPY (ABSTRACTS ONLY), SOC. APPL. SPECTROSCOPY, NEW YORK, 1971, FROM MEETING ST. LOUIS, MO., OCT. 18-22, 1971
- 490 72 001 AASEN AJ
IDENTIFICATION AND ANALYSIS OF WAX ESTERS BY MASS SPECTROMETRY

LIPIDS, 6, NO. 7, 502, 1971
- 490 72 002 ABRAMOVITCH RA KYBA EP SCRIVEN EF
MASS SPECTROMETRY OF ARYL AZIDES
J. ORG. CHEM., 36, NO. 24, XXX, 1971
- 490 72 003 ADCOCK W
GROUP-IV METALLOIDAL AND MERCURY SUBSTITUENT EFFECTS IN THE NAPHTHALENE SYSTEM BY FLUORINE-19 NMR
JACS, 94, 369, 1972
- 490 72 004 AGHAJANIAN TY GRIGORIAN RT BADALIAN VY (S)
MASS SPECTRA OF BIOLOGICALLY ACTIVE COMPOUNDS. 3. MASS SPECTROMETRIC STUDY OF DIALKYLAMINOETHERS. 5.
MASS SPECTROMETRIC STUDY OF GAMMA-DIALKYLAMINOPROPANOLS
ARM. KHIM. ZH., 24, 113 AND 465, 1971 IN RUSSIAN
- 490 72 005 ALLEN DW
SYNTHESIS OF NEWEL MACROCYCLIC COMPOUNDS CONTAINING SULPHUR OR OXYGEN IN THE RING: THIA AND OXA-CYCLOPHANES. MASS SPECTRAL AND OTHER STUDIES
J. CHEM. SOC. C, P3454, 1971
- 490 72 006 AMIRKHANOV SK
MASS SPECTROMETRIC STUDY OF THE GAS PHASE OF RESIDUAL ORGANIC MATTER
DOKL. AKAO. NAUK UZB. SSR, 29, NO. 4, 46, 1972 IN RUSSIAN
- 490 72 007 AMMON HL
SOME CHEMISTRY AND CRYSTALLOGRAPHY OF THE METAFULVENOTHIOPHENE-AZULENODIHYDROTHIOPHENE SYSTEM
JACS, 93, 2196, 1971
- 490 72 008 ANDERSEN SA JENSEN VO MICHELSEN P
MEASUREMENTS OF THE ION VELOCITY DISTRIBUTION FUNCTION IN A SINGLE-ENDED Q MACHINE
PP 123 OF 4TH EUROPEAN CONFERENCE ON CONTROLLED FUSION AND PLASMA PHYSICS, COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, ROMA, 1970, FROM CONF-700817, ROMA, ITALY, AUG. 31, 1970
- 490 72 009 ANTEUNIS M VANDEWALLE M
ENOLIZATION IN 3-OXO-TETRAHYDROFURAN. A PMR AND MS STUDY
SPECTROCHIM. ACTA, 27A, 2119, 1971
- 490 72 010 BAGLEY MJ
THE MASS SPECTROMETRY OF AROMATIC AZIDES
EXCLUSIVES RES. AND DEV. IN P. ESTABLISHMENT TECH. REPORT ERDC-TR-32, 24P, JULY 1970
- 490 72 011 BARRACLOUGH D
STUDIES IN THE NORBORNENE SERIES. 1. ELUCIDATION OF THE STRUCTURE OF NORBORNENE DERIVATIVES BY USE OF THE NUCLEAR MAGNETIC RESONANCE SHIFT REAGENT TRISDIPIVALOXYMETHANATOEUROPIUM(III), THE NUCLEAR OVERHAUSER EFFECT, AND MASS SPECTROMETRY
J. CHEM. SOC., PERKIN TRANS., 1, P1500, 1972

- 490 72 012 BAYLOUNY RA
A THERMAL SHIFT OF CARBETHOXY AND CARBOMETHOXY GROUPS
JACS. 93. 4821. 1971
- 490 72 013 BEAM CF
SYNTHESIS AND PRELIMINARY CHARACTERIZATION OF ALL-ORGANIC POLYSPIROKETALS. PYROLYSIS OF A DIALLYL ETHER AND A TETRAESTER. SYNTHESIS OF MACROCYCLIC ESTERS USING HIGH DILUTION TECHNIQUE. MASS SPECTRA OF TETRASPIROKETALS AND A SYMMETRICAL TETRAESTER
THESIS. UNIV. OF MARYLAND. COLLEGE PARK. UNIV. MICROFILMS ORDER NO. 71-4904. DISS. ABS. 318. 8. 4824. 1971
- 490 72 014 BENEZRA SA BURSEY MM
STERIC INHIBITION OF GASEOUS IONIC ACETYLATION
JACS. 94. 1024. 1972
- 490 72 015 BEST RO
ELECTRONIC SPECTROSCOPY AND PHOTOCHEMISTRY OF ORGANIC COMPOUNDS. 1. ARYLXIRANES AND ARYLCYCLOPROPANES. 2. PHOTOCROMIC HYDRAZONES
THESIS. UNIV. OF HOUSTON, TEXAS. UNIV. MICROFILMS ORDER NO. 71-1461. DISS. ABS. 318. 7. 3909. 1971
- 490 72 016 BHATTACHARYA AK
ION CONVERSION IN XENON AFTERGLOW PLASMAS
APPL. PHYS. LETT. 17. 521. 1970
- 490 72 017 BOGENTOF C DANIELSSON B (2)
1. STUDIES ON THE CHEMISTRY AND MASS SPECTROMETRY OF OXOQUINAZOLINES. 2. MASS SPECTROMETRIC INVESTIGATION OF ISOMERIC 1,2,3,4-TETRAHYDRO-4-OXOQUINAZOLINES
ACTA PHARM. SUEC. 9. 1-19. 1972 AND J. HETEROCYCLIC CHEM. 9. NO. 2. 193. 1972
- 490 72 018 BOHLEN HG VON DERTZEN W
MOLECULAR SCATTERING STATES OF THE NEUTRON IN THE ELASTIC SCATTERING OF C(12) ON C(13)
PHYS. LETT. 37B. 451. 1971
- 490 72 019 BORNSCHE I WUNSCHMA H PFEIFER S
ZERSETZUNGSPRODUKTE DES PROMETHAZINS
PHARMAZIE. 27. NO. 3. 188. 1972
- 490 72 020 BOULLOUD JP MICHEL S TAUVERON P
MESURE DU RAPPORT ISOTOPIQUE DE L'HELIUM
J. MASS SPECTRY. ION PHYS. 9. 375. 1972. 12 REFERENCES
- 490 72 021 BOUY B HALPERN B HOWELL B
MASS SPECTROMETRIC STUDY OF A PSEUDO 'POLYMER'
CHEM. PHYS. LETT. 13. 328. 1972
- 490 72 022 BOWEN DH MACMILLA J GRAEBE JE
DETERMINATION OF SPECIFIC RADIOACTIVITY OF RC(14) COMPOUNDS BY MASS SPECTROSCOPY
PHYTOCHEM. 11. 2253. 1972
- 490 72 023 BRICOUT J FONTES J MERLIVAT L
PHYSIOLOGIE VEGETALE. SUR LA COMPOSITION EN ISOTOPES STABLES DE L'EAU DES JUS D'ORANGES
COMPT. REND. SER. D. 274. 1803. 1972
- 490 72 024 BRIGHT AW
FUNDAMENTAL PHENOMENA OF THE COLLOID THRUSTER
N71-23707. ANNUAL REPORT, JUNE 1969 - JUNE 1970. SOUTHAMPTON UNIV. ENGLAND. DEPT. OF ELECTRICAL
ENGINEERING. 33P
- 490 72 025 BRODSKII ES
1. MASS SPECTROMETRIC ANALYSIS OF THE AROMATIC PART OF THE 350 TO 450 DEGREES C. FRACTION OF ROMASHKING AND ARLAN PETROLEUMS. 2. A MASS SPECTROMETRIC METHOD FOR THE ANALYSIS OF AROMATIC HYDROCARBONS AND SULPHUR COMPOUNDS
PETROL. CHEM. USSR (ENGL. TRANS.). 12. NO. 1. 3. 1972 AND KHIM. TEKHNOL. TOPLIV MASEL. 17. NO. 9. 55. 1972
- 490 72 026 BRUGEL EG
1. CHEMISTRY OF SOME BRIDGEHEAD NITROGEN COMPOUNDS. 2. MASS SPECTRA OF SOME NITROGEN COMPOUNDS
THESIS. RENSSELAER POLYTECHNIC INSTITUTE, TROY, N.Y. UNIV. MICROFILMS ORDER NO. 71-12.810. DISS. ABS. 318. 11. 6494. 1971
- 490 72 027 BULOVIC V DJORDJEVIC M MAXIMOVIC Z KRIL J MORAVEC A
MASS SPECTROMETRIC DETERMINATION OF BURN-UP CHARACTERISTICS FROM MEASURED ISOTOPIC COMPOSITION OF NEODYMIUM IN FISSION PRODUCTS
JAO. ENERG. 17. NO. 8. 259. 1971
- 490 72 028 BURNS B
MASS SPECTROMETRIC INVESTIGATION OF CEREBRAL TISSUE CARBON DIOXIDE TENSIONS: BLOOD ACID-BASE RELATIONSHIPS
THESIS. JOHNS HOPKINS UNIV. BALTIMORE, MD. UNIV. MICROFILMS ORDER NO. 71-29.141. DISS. ABS. 328. 5. 2966. 1971
- 490 72 029 BUSS V
PERPENDICULAR ALLYL AND CYCLOPROPYLCARBINYL CATIONS
JACS. 93. 3927. 1971
- 490 72 030 CARLSON DW
IDENTIFICATION OF ANTIOXIDANTS IN RUBBER VULCANIZATES
ANAL. CHEM. 43. 1874. 1971
- 490 72 031 CASTLEMAN AW TANG IN
MOLECULAR CLUSTERS: MASS SPECTROMETRIC STUDIES OF CLUSTERING REACTIONS INVOLVING LEAD IONS
NATURE. PHYS. SCI. 234. 129. 1971
- 490 72 032 CHAPMAN R MCLATCHI W KITCHING JE
(T,P) REACTION ON EVEN ISOTOPES OF NEODYMIUM
NUCL. PHYS. 186. 603. 1972
- 490 72 033 CHARNEY E TSAI L
SPECTROSCOPIC EXAMINATION OF THE LOWER EXCITED STATES OF ALPHA-DIKETONES. CAMPHORQUINONE
JACS. 93. 7123. 1971

- 490 72 034 CHASTRET F CHASTRET M
ETUDE D'ACETALS DU GLYOXAL EN SPECTROGRAPHIE DE MASSE
BULL. SOC. CHIM. FRANCE, P2417, 1972
- 490 72 035 CHAUMONT J
FISSION INVESTIGATION USING ON-LINE MASS SPECTROMETRY
NP-18829, THESIS, PARIS UNIV., ORSAY, FRANCE, 1970, 97P IN FRENCH, NTIS
- 490 72 036 CHICKOS JS
NMR STUDY OF THE KETO-ENOL EQUILIBRIUM OF 3-HYDROXY-2,4-DIMETHYLCYCLOBUTENONE
JACS, 94, 4268, 1972
- 490 72 037 CHIZHOV OS NOVIKOV SS KARPENKO NF
MASS SPECTROMETRIC STUDIES OF ADAMANTANE DERIVATIVES. 3. ALKYL ADAMANTANES CONTAINING MONOFUNCTION GROUP
IZV. AKAD. NAUK SSSR, SER. KHIM., P1028, 1972
- 490 72 038 CHOCHUA KA CHIZHOV OS SHABAROV YS KAZBULATOVA NA (1)
MASS SPECTROMETRY OF CYCLOPROPANE DERIVATIVES. 1. PHENYLCYCLOPROPANE HYDROCARBONS AND THEIR RELATED COMPOUNDS. 2. ACIDS OF PHENYLCYCLOPROPANE SERIES AND THEIR DERIVATIVES. 3. MONO SUBSTITUTES OF PHENYLCYCLOPROPANES
Zh. ORG. KHIM., 7, 2024 AND 2028, 1971, AND 8, 970, 1972 IN RUSSIAN
- 490 72 039 CHRISTIANSEN GD
ORG. CD, AND MS STUDIES OF SPIRO COMPOUNDS SPIROCONJUGATION
THESIS, UNIV. OF CALIFORNIA, LOS ANGELES, UNIV. MICROFILMS ORDER NO. 72-1471, DISS. ABS., 32B, 6, 3249, 1971
- 490 72 040 CLEVE G MOYER GA
UNTERSUCHUNG DER A/R-RINGVERKNÜPFUNG BEI 3,6-DIKETO UND 6-KETOSTEROIDEN DURCH CD, MS, UND NMR MESSUNGEN
TETRAHEDRON, 28, 2637, 1972
- 490 72 041 CLUDE DM HORTON D
SYNTHESIS OF 6-ALDEHYDO DERIVATIVE OF CELLULOSE, AND A MASS SPECTROMETRIC METHOD FOR DETERMINING POSITION AND DEGREE OF SUBSTITUTION BY CARBONYL GROUPS IN OXIDIZED POLYSACCHARIDES
CARBOHYD. RES., 19, 329, 1971
- 490 72 042 COMEAU J BRUCKENS S
INVESTIGATION OF PHENANE CALIBRATION USING ELECTRODEHERMAL MASS SPECTROMETRY
AD-743 190, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 490 72 043 COOKS VARVOGLI AG (1)
1. CHARACTERISTICS OF OXIME ETHERS UPON ELECTRON IMPACT. 2. STRIPPING REACTIONS OF GASEOUS IONS IN THE MASS SPECTROMETER
ORG. MASS SPECTRY, 5, 687, 1971 AND JACS, 94, 1004, 1972
- 490 72 044 CORTES E SALMON M
MASS SPECTROMETRIC STUDIES OF 4-OXO-4,5,6,7-TETRAHYDROBENZOFURANS
ORG. MASS SPECTRY, 6, 85, 1972
- 490 72 045 COUCH MW WILLIAMS CH
MASS SPECTROMETRY OF BENZYLAMINES AND BENZYLAMINE DERIVATIVES
ORG. MASS SPECTRY, 6, 21, 1972
- 490 72 046 COXON B
STUDIES OF N(15) LABELED AMINO SUGARS. SYNTHESIS AND MASS SPECTROMETRY OF DERIVATIVES OF 6-AMINO-6-DEOXY-D-GLUCOSE-6-N(15)
CARBOHYD. RES., 19, 197, 1971, COM-72-5022, 1971
- 490 72 047 DABIRI AE STICKNEY RE
ANALYSIS OF 'OXYGEN PUMPING EFFECT' OF TUNGSTEN CATHODES IN IONIZATION GAUGES AND MASS SPECTROMETERS
J. VAC. SCI. TECHNOL., 9, NO. 2, 1032, 1972, AD-746 420, 1971
- 490 72 048 DABY EE NIKI H WEINSTOCK B
MASS SPECTROMETRIC STUDIES OF RATE CONSTANTS FOR ADDITION REACTIONS OF HYDROGEN AND OF DEUTERIUM ATOMS WITH OLEFINS IN A DISCHARGE-FLOW SYSTEM AT 300 DEGREES K
J. PHYS. CHEM., 75, 1801, 1971
- 490 72 049 DARCEY W CHAPMAN R HINDS S
STUDY OF THE STATES OF NI(60,62,64,66) USING THE (T,P) REACTION
NUCL. PHYS., A170, 253, 1971
- 490 72 050 DE CORPO JJ
ON THE FORMATION OF C204 IN CHEMILUMINESCENT REACTIONS
JACS, 94, 2879, 1972
- 490 72 051 DE JONGH DC EVENSON GN (1) VAN FOSSEN HY (2)
1. THE PYROLYSIS OF 2H-NAPHTH(1,8-CD)ISOTHIAZOLE-1,1-DIOXIDE AND ITS 2-PHENYL ANALOG. 2. PYROLYSIS OF AROMATIC CYCLIC DIAZOKETONES
J. ORG. CHEM., 37, 2152, 1972 AND TETRAHEDRON, 28, 3603, 1972
- 490 72 052 DE MARIA G PIACENTE V
ACTIVITY MEASUREMENTS AND RELATIVE IONIZATION CROSS SECTIONS DETERMINED BY MULTIPLE-ROTATING KNUDSEN CELL MASS SPECTROMETRIC METHOD
BULL. SOC. CHIM. BELGES, 81, 155, 1972
- 490 72 053 DIBATTISTA FH
SOME REACTIONS OF P-CHLOROPHENYLAZOETHYMBENZENE AND THE MASS SPECTRA OF THE PRODUCTS THUS OBTAINED
THESIS, UNIV. OF CONNECTICUT, STORRS, UNIV. MICROFILMS ORDER NO. 71-29,859, DISS. ABS., 32B, 5, 2995, 1971
- 490 72 054 DORR W
ON THE SUITABILITY OF A MASS SPECTROMETER FOR THE CONTROL OF A BLAST FURNACE
PP 31 OF REPORT OF 73RD SESSION OF THE CHEMICAL SPECT COMMITTEE, DUSSELDORF, GERMANY, JUNE 27, 1969, BISI-8486
- 490 72 055 DRAGER M GATTOW G
1. DARSTELLUNG UND SPEKTROSKOPISCHE EIGENSCHAFTEN EINIGER DIMETHYLTRICHALKOGENOCARBONATE. 2. MASSENSPEKTREN UND KERNRESONANZSPEKTREN EINIGER SELEN-HALTIGER DIMETHYLTRICHALKOGENOCARBONATE
CHEM. BER., 104, 1429, 1971 AND SPECTROCHIM. ACTA, 28A, 425, 1972

- 490 72 056 DUNN MR FREEMAN C MCEWAN M PHILLIPS L SUTTON M (1)
1. MASS SPECTROMETRIC STUDY OF THE REACTION OF HYDROGEN ATOMS WITH NITROSYL CHLORIDE. 2. MASS
SPECTROMETRIC STUDY OF THE REACTION OF OXYGEN ATOMS WITH NITROSYL CHLORIDE. 3. PHOTOMETRIC AND
MASS SPECTROMETRIC OBSERVATIONS ON THE REACTION OF HYDROGEN ATOMS WITH CYANOGEN
AD-744 737, AD-744 738, AND AD-744 742, 1970, AND 1971. NATIONAL TECHNICAL INFORMATION SERVICE
(NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. NUMBER 2 ALSO J. PHYS. CHEM., 75, 2862,
1971
- 490 72 057 ECKROTH DR KINSTLE TH DELACRUZ DO
ISOMERIZATION OF FLUORENONE ANIL N-OXIDE TO N-PHENYLPHENANTHRIQONE BY PHOTOCHEMICAL AND MASS
SPECTRAL PATHWAYS
J. ORG. CHEM., 36, 3619, 1971
- 490 72 058 EVANS S MARSH H
CHEMISTRY OF FORMATION OF SEMI-COKES FROM AROMATIC SYSTEMS USING MASS SPECTROMETRY. 1. CARBONISATION
OF SINGLE SUBSTANCES AND MIXTURES THEREOF. 2. EFFECT OF ADDITION OF PHTHALIC ANHYDRIDE AND
PHTHALIMIDE UPON CARBONISATION OF POLYCYCLIC AROMATIC HYDROCARBONS
CARBON, 9, 733 AND 747, 1972
- 490 72 059 FALCONER WE
SYNTHESIS, MASS SPECTROMETRIC IDENTIFICATION, AND CRYSTALLOGRAPHY OF OSMIUM OXIDE TETRAFLUORIDE
J. CHEM. SOC., CHEM. COMMUN., 11080, 1972
- 490 72 060 FEDOSEEV DV GALIMOV EM VARNIN VP PROKHOROV VS DERYAGIN BV
FRACTIONATION OF CARBON ISOTOPES DURING THE PHYSICOCHEMICAL SYNTHESIS OF DIAMOND FROM A GAS
DOKL. AKADE. NAUK SSSR, 201, 1149, 1971 IN RUSSIAN
- 490 72 061 FRASER RTM PAUL NC RICHARDS OH SCILLY NF
THE MASS SPECTROMETRY OF SUBSTITUTED OCTADIENES
N72-11130 AND ERDE-TR-33. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE,
SPRINGFIELD, VA. 22151, 1970, 16P. EXPLOSIVES RESEARCH AND DEVELOPMENT ESTABLISHMENT
- 490 72 062 FRICKE J
MASS AND PHASE SPECTROMETRY OF A WATER VAPOR JET
J. CHEM. PHYS., 57, 580, 1972
- 490 72 063 GARRISON AW KEITH L ALFORD A
CONFIRMATION OF PESTICIDE RESIDUES BY MASS SPECTROMETRY AND NMR TECHNIQUES
ADVAN. CHEM. SER., NO. 111, 26-54, 1972
- 490 72 064 GOLORING G HUTCHESON DA RANDOLPH WL
HYPERFINE INTERACTIONS OF THE FIRST EXCITED 2(+) STATE OF O(1E) IN 7(+) AND 6(+) IONS
PHYS. REV. LETT., 28, 763, 1972
- 490 72 065 GRIFFITHS GR
SPECTROSCOPIC AND STRUCTURAL STUDIES ON SOME OXOCARBON CONDENSATION PRODUCTS. 4. A SPECTROSCOPIC AND
MASS SPECTRAL INVESTIGATION OF SOME DERIVATIVES OF SQUARIC ACID
J. MOL. STRUCT., 8, 363, 1971
- 490 72 066 GRIGOREV VV BAIBAKOV AK
MASS SPECTROMETRIC STUDY OF DECOMPOSITION OF SOLID SUBSTANCES DURING A PROGRAMMED RISE IN
TEMPERATURE
ZH. FIZ. KHIM., 46, 771, 1972 IN RUSSIAN
- 490 72 067 GRISSOM JT MCCLURE GW
ENERGY DISTRIBUTIONS OF IONS FROM THE ANODE PLASMA OF A PULSED VACUUM ARC

J. MASS SPECTRY, ION PHYS., 9, 81, 1972, 10 REFERENCES
- 490 72 068 GRONNEBERG T UNDHEIM K (1)
1. MASS SPECTROMETRY OF ONIUM COMPOUNDS. 111. STUDIES OF PYRIDINIUM-3-OXIDES. 2. ON
DISPROPORTIONATION OF PYRIDINIUM YLIDES AND PYRIDINIUM HYDROXIDES. MASS SPECTROMETRY STUDIES
ACTA CHEM. SCAND., 25, 2807, 1971 AND ARK. KEMI, 2, 17, 1972
- 490 72 069 GRUTZMACHER HF HUBNER J
MASS SPECTROMETRY OF UNSTABLE MOLECULES. 6. FORMATION AND STRUCTURE OF C6H4O FROM PYROLYSIS OF
ESTERS OF SALICYLIC ACID AND RELATED COMPOUNDS
ANN. CHEM., 748, 154, 1971 IN GERMAN
- 490 72 070 HAMILTON GA
SITE OF REACTION OF A SPECIFIC DIAZO INACTIVATOR OF PEPSIN
BIOCHEM., 9, 4624, 1970
- 490 72 071 HAND CW OBENAU RH
MASS SPECTROMETRIC STUDY OF REACTION OF DICYANOACETYLENE WITH OXYGEN ATOMS
J. PHYS. CHEM., 76, 269, 1972
- 490 72 072 HANSON JR
MECHANISM OF A STEROID AROMATIZATION REACTION
J. CHEM. SOC. C, P1313, 1971
- 490 72 073 HARPP DN GLEASON JG
PREPARATION AND MASS SPECTRAL PROPERTIES OF CYSTINE AND LANTHIONINE DERIVATIVES. A NOVEL SYNTHESIS
OF L-LANTHIONINE BY SELECTIVE DESULFURIZATION
J. ORG. CHEM., 36, 73, 1971
- 490 72 074 HASS WK WALD A RANSOHOFF J
ARGON AND NITROUS OXIDE CEREAL BLOOD FLOWS SIMULTANEOUSLY MONITORED BY MASS SPECTROMETRY IN
PATIENTS WITH HEAD INJURY
EUR. NEUROL., 8, 164, 1972
- 490 72 075 HAVLICEK J
PARTITION CHROMATOGRAPHY AND MASS SPECTROMETRY OF TETROLOSE AND PENTULOSES
ACTA CHEM. SCAND., 26, 2295, 1972
- 490 72 076 HEATHCOCK CH GRAY D
ON MUKHARJI'S 'CYCLODECADIENONE'
TETRAEDRON, 27, 1239, 1971
- 490 72 077 HENNIG H TAUCHNITZ J HOFMANN H
UBER DIE KOORDINATIONSTENDENZ SAURER AMINOGROUPEN. 13. SYNTHESE, MASSENSPEKTROSKOPISCHES VERHALTEN
UND LIGANDENEIGENSCHAFTEN SUBSTITUIERTER 3(11H-IMIDAZO(4,5-b)PICHINOLINE
J. PRAKT. CHEM., 313, 646, 1971

- 490 72 078 HENRY WM
ANALYSIS AND CHARACTERIZATION OF MATERIALS SUITABLE FOR AIRCRAFT STRUCTURE (MASS SPECTROSCOPY)
AD-727 017. BATTELLE MEMORIAL INST., COLUMBUS, OHIO, 39P
- 490 72 079 HERZOG RF
AE MASS SPECTROMETER ANTECHAMBER STUDY
N72-17417, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 490 72 080 HEUNISCH GW KEEN GW
MASS SPECTROMETRIC INVESTIGATION OF BIMOLECULAR COMPOUNDS
ORG. MASS SPECTRY, 5, 1277, 1971
- 490 72 081 HITES RA BIEMANN K
ON MECHANISM OF KETONIC DECARBOXYLATION, PYROLYSIS OF CALCIUM DECANOATE
JACS, 94, 5772, 1972
- 490 72 082 HOLCOMBE NT LAMPE FW
PULSED MASS SPECTROMETRIC STUDY OF ASSOCIATIVE IONIZATION IN ARGON-NITRIC OXIDE AND ARGON-ACETYLENE
MIXTURES
J. CHEM. PHYS., 56, 1127, 1972
- 490 72 083 HUNTER PMW WEBB GA
SPECTROSCOPIC AND MASS SPECTRAL INVESTIGATION OF SOME DIHYDRO AND TETRAHYDRO-1,6-BENZODIAZEPINES AND
THIAZEPINES
TETRAEDRON, 28, 6673, 1972
- 490 72 084 HUTZINGER O SAFE S (1) ZITKO V (1) FREI-HAU M (2) FREI R (2)
1. ANALYSIS OF CHLORINATED AROMATIC HYDROCARBONS BY EXHAUSTIVE CHLORINATION: QUALITATIVE AND
STRUCTURAL ASPECTS OF PERCHLORO DERIVATIVES OF BIPHENYL, NAPHTHALENE, TERPHENYL, DIBENZOFURAN,
DIBENZODIOXIN, AND ODE. 2. DETERMINATION OF HYDROXYBIPHENYLS AS DANSYL DERIVATIVES
AD-758 539 AND AD-763 619, APRIL AND DECEMBER 1972, 12P AND 8P, NATIONAL RESEARCH COUNCIL OF CANADA,
HALIFAX, NOVA SCOTIA, NTIS
- 490 72 085 HYNES JB AUSTIN TE BIGELOW LA
CHEMISTRY OF FLUORINATED DERIVATIVES OF AZODIFORMAMIDINE
INORG. CHEM., 11, 418, 1972
- 490 72 086 IKEDA M
STUDIES IN ORGANIC MASS SPECTROMETRY. 5. N-ARYLBULPHONYLINOPYRIDINIUM SALTAINES
ORG. MASS SPECTRY, 5, 1383, 1971
- 490 72 087 INOUE K TANIGUCHI K MURATA T MITSUI H DOI A
BURNUP DETERMINATION OF NUCLEAR FUEL
PP 461-5 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 490 72 088 ISOYA A MAKI T NAKASHIMA T
DETAILED STUDY OF LOW LYING LEVELS OF W(184) BY MEANS OF THE (D,P) REACTION
J. PHYS. SOC. JAPAN, 32, 886, 1972
- 490 72 089 IVASHCHENKO DA
MASS SPECTROMETRIC METHOD FOR INVESTIGATION OF GAS PERMEABILITY OF POLYMER FILMS
VYSOKOMOL. SOEDIN., SER. A, 14, 2109, 1972 IN RUSSIAN
- 490 72 090 JANKOWSKI K VARFALVY L
1. SPECTROSCOPIE DE MASSE DES DICETO-2,5-PIPERAZINES. 2. SPECTROSCOPIE DE MASSE DE QUELQUES
DECETO-2,5-PIPERAZINES
BULL. ACAD. POL. SCI., SER. SCI. CHIM., 19, 651, 1971 AND 20, 423, 1972
- 490 72 091 JANKOWSKI K COUTURIE J DAIGLE J (1) TOWER R (2)
1. SPECTROSCOPIE DE MASSE DES GEM-DIESTERS CYCLIQUES, FRAGMENT ANHYDRIDE. 2. SPECTROSCOPIE DE MASSE
GEM-DIESTER EPIMERES
CAN. J. CHEM., 50, 1535 AND 1539, 1972
- 490 72 092 JESSBERGER E GENTNER W
MASS SPECTROMETRIC ANALYSIS OF GAS INCLUSIONS IN MUONG NONG GLASS AND LYBYAN DESERT GLASS
EARTH PLANET. SCI. LTRS, 14, 221, 1972
- 490 72 093 JOHNSON BM
MASS SPECTROMETRIC INVESTIGATION OF N-ALKENES BY PHOTON AND ELECTRON IMPACT AND BY STEREOSPECIFIC
DERIVATIZATION
THESIS, UNIV. OF WISCONSIN, MADISON, UNIV. MICROFILMS ORDER NO. 72-15,360, DISS. ABS., 32B, 12,
6879, 1972
- 490 72 094 JONES EJ TIERNAN TO
REACTIONS OF SOME SOLVATED ALKOXY ANIONS
AD-730 853, AEROSPCE RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO, 4P
- 490 72 095 KAMERLING JP
1. MASS SPECTROMETRY OF FRUCTOSE CONTAINING OLIGOSACCHARIDES. 2. MASS SPECTROMETRY OF
PERTRIMETHYLSILYL OLIGOSACCHARIDES CONTAINING FRUCTOSE UNITS
TETRAEDRON LTRS, P2367, 1971 AND TETRAEDRON, 28, 4375, 1972
- 490 72 096 KAMERLING JP VLEGENTHART JFG VINK J (2)
1. MASS SPECTROMETRY OF PERTRIMETHYLSILYL ALDOYL OLIGOSACCHARIDES. 2. MASS SPECTROMETRY OF
2-ACETAMIDO-2-DEOXYGLUCOSE CONTAINING OLIGOSACCHARIDES
TETRAEDRON, 27, 4275 AND 4749, 1971
- 490 72 097 KARPENKO NF CHIZHOV OS NOVIKOV SS
MASS SPECTROMETRIC STUDIES OF ADAMANTANE DERIVATIVES. 1. 2-SUBSTITUTED ADAMANTANES
IZV. AKAD. NAUK SSSR, SER. KHIM., P337, 1972 IN RUSSIAN
- 490 72 098 KATO T YAMANAKA H KATAGIRI N
STUDIES ON KETENE AND ITS DERIVATIVES. 46. MASS SPECTROMETRIC STUDIES OF
3-ACETYL-4-HYDROXY-6-METHYL-1-PYRIDYL-2-PYRIDONES AND N-PYRIDYL-2,6-
DIMETHYL-4-PYRONE-3-CARBOXAMIDES
CHEM. PHARM. BULL. (TOKYO), 20, 133, 1972

- 490 72 099 KAWAI T KIGUCHI T SENOO M
METHOD OF BURNUP ESTIMATION FROM MASS SPECTROMETRIC DATA
NIPPON GENSIRYOKU GAKKAISHI, 14, 10, 1972 IN JAPANESE
- 490 72 100 KEEN GW HAMMING MC
MASS SPECTROMETRIC ANALYSIS OF ALIPHATIC ESTERS
MASS SPECTRY, JAPAN, 19, 308, 1971 IN ENGLISH
- 490 72 101 KERRIGAN WJ BYRD JS HOLLOWAY PD
THERMAL ANALYSIS SYSTEM FOR RADIOACTIVE MATERIALS
PP 215-27 OF VACUUM MICROBALANCE TECHNIQUES, VOL. 8, CZANDERNA, A.W. (ED.), PLENUM PUBLISHING CORP.,
NEW YORK, 1971. FROM 8TH CONFERENCE, WAKEFIELD, MASS., JUNE 12, 1969. CONF-690662
- 490 72 102 KHMEL'NITSKII RA KUNINA EA
1. MASS SPECTROMETRIC STUDY OF SUBSTITUTED ACYLBUTYROLACTONES. 2. MASS SPECTROMETRIC STUDY OF
2-HYDROXYTETRAHYDROPYRAN AND SOME 2-ALKOXYTETRAHYDROPYRANS
IZV. TIMIRYAZEV. SEL'SKOKHOZ. AKAD., NO. 4, 214, 1971 AND NO. 6, 223, 1971 IN RUSSIAN
- 490 72 103 KHVOSTEN VI IURIEV VP AMINEV IK
MASS SPECTROMETRY OF POSITIVE AND NEGATIVE IONS OF POLYENE HYDROCARBONS
DOKL. AKAD. NAUK SSSR, 202, 861, 1972 IN RUSSIAN
- 490 72 104 KIDANI Y
MASS SPECTROMETRY OF DIVALENT METAL OXINATES
CHEM. LTRS, 7, 507, 1972
- 490 72 105 KIRYUSHKIN AA POTAPOV VM KIRYUSHK GV
MASS SPECTROMETRIC STUDY OF BICYCLIC ENAMINOKETONES
Zh. OBSHC. KHIM., 42, 936, 1972 IN RUSSIAN
- 490 72 106 KLUGE M TUMMLER R
ELEKTRONENANLAGERUNGS MASSENSPEKTROGRAPHISCHE UNTERSUCHUNGEN ZUR CLUSTERBILDUNG BEIM WASSER
J. MASS SPECTRY, ION PHYS., 8, 73, 1972, 21 REFERENCES
- 490 72 107 KOBAYASHI K HIROSE K
MASS SPECTROMETRIC ANALYSIS OF WATER INSOLUBLE YELLOW MONOAZO PIGMENTS
BULL. CHEM. SOC. JAPAN, 45, 1700, 1972
- 490 72 108 KOENIG WA
MASS SPECTROMETRY OF TRIFLUOROACETYL DERIVATIVES OF NUCLEOSIDES AND HYDROLYSATES OF DEOXYRIBONUCLEIC
ACID
BIOCHEM., 10, 3968, 1971 AND 11, 1122, 1972
- 490 72 109 KOHL DM SHEARER GB COMMONER B
FERTILIZER NITROGEN CONTRIBUTION TO NITRATE IN SURFACE WATER IN A CORN BELT WATERSHED
SCIENCE, 174, 1331, 1971
- 490 72 110 KOLLER WD
QUANTITATIVE DETERMINATION OF ORGANIC SUBSTANCES BY MEANS OF MASS SPECTROMETRY
Z. ANAL. CHEM., 260, 31, 1972
- 490 72 111 KOMORI T TAMURA S YOSHIDA H GUNJI K TAMURA K
MASS SPECTROMETRIC DETERMINATION OF BURNUP
NIPPON GENSIRYOKU GAKKAISHI, 13, 688, 1971 IN JAPANESE
- 490 72 112 KONIG WA UHMANN R

MASSENSPEKTROMETRISCHE UNTERSUCHUNG VON ANALOGEN DES ADENOSINS
CHEM. BER., 105, 262, 1972
- 490 72 113 KOROBEINICHEV DP KARPENKO Y
STUDY OF KINETICS AND SUBLIMATION MECHANISM OF AMMONIUM PERCHLORATE BY MASS SPECTROMETRIC THERMAL
ANALYSIS
IZV. AKAD. NAUK SSSR, SER. KHIM., P1557, 1971 IN RUSSIAN
- 490 72 114 KOVACIK V
ZUR MASSENSPEKTROMETRIE EINIGER DERIVATE VON 4-AZIDO-4-DESOXYPENTOSEN
CARBOHDR. RES., 19, 169, 1971
- 490 72 115 KRAHER JKG HOLMAN RT BAUMANN WJ
1. MASS SPECTROMETRIC ANALYSIS OF LONG CHAIN ALK-1-ENYLETHER ESTERS AND ALKYL ETHER ESTERS OF DIOLS.
2. MASS SPECTROMETRIC ANALYSIS OF MONO AND DIALKYLETHERS OF DIOLS
LIPIDS, 6, 492 AND 727, 1971
- 490 72 116 KRASHCHOLEK AP
MASS SPECTROMETRY OF TOLUENE CHLORO-DERIVATIVES
Zh. ORG. KHIM., 8, 2100, 1972 IN RUSSIAN
- 490 72 117 KRAUSE WJ
BURNUP DETERMINATION OF FUEL ELEMENTS FROM FAST REACTORS
KFK-1449, THESIS, KARLSRUHE UNIV., WEST GERMANY, JULY 1971, 150P, 122 REFERENCES.
KERNFORSCHUNGSZENTRUM, KARLSRUHE, INSTITUT FUER RADIOCHEMIE, NTIS
- 490 72 118 KUGLER G CLARKE WB
MASS SPECTROMETRIC MEASUREMENTS OF H(3), HE(3), AND HE(4) PRODUCED IN THERMAL NEUTRON TERNARY
FISSION OF U(235): EVIDENCE FOR SHORT RANGE HE(4)
PHYS. REV., 5C, 551, 1972
- 490 72 119 KUNINA EA BUIKOV AA
MASS SPECTROMETRIC DETERMINATION OF IMPURITIES IN COMMERCIAL SAMPLES OF 2-METHYLFURAN DURING
VITAMIN-B1 SYNTHESIS
IZV. TIMIRYAZEV. SEL'SKOKHOZ. AKAD., NO. 6, 182, 1971
- 490 72 120 KYBA EP
DECOMPOSITION OF ORGANIC AZIDES
THESIS, UNIV. OF ALABAMA, TUSCALOOSA, UNIV. MICROFILMS ORDER NO. 71-29,217, DISS. ABS., 328, 5,
2605, 1971
- 490 72 121 LACEY RF
THALLIUM BEAM TUBE RESEARCH (MASS SPECTROSCOPY, SPECTRUM ANALYZERS)
AD-800 172, VARIAN ASSOCIATES, BEVERLY, MASS., QUANTUM ELECTRONICS DIV. 24P

- 490 72 122 LAGENDIJK A SZWARC M
MECHANISM OF CARBON-CARBON BOND FISSION BY ELECTRON TRANSFER LEADING TO DIANIONS
JACS. 93. 5359. 1971
- 490 72 123 LACROIX M BADEA M DUCHESNE J
VARIATIONS ISOTOPIQUES C(13)/C(12) DU CO₂ CHEZ L'HOMME ET LES ANIMAUX SUPERIEURS
COMPT. REND., SER. D. 273. 240. 1971
- 490 72 124 LAPPERT MF PEDLEY JB
INORGANIC MASS SPECTROMETRY AND THERMOCHEMISTRY RELATED TO FUELS, STRUCTURAL MATERIALS. AND POLYMERS
AD-719 817. SUSSEX UNIV., BRIGHTON, ENGLAND, CHEMICAL LABS. 72P
- 490 72 125 LARKINS JT
SUBSTITUENT EFFECTS IN THE D.C. POLAROGRAPHY AND CYCLIC VOLTAMMETRY OF SOME N-BENZOYL, N'-PHENYL
DIIMIDES AND IN THE MASS SPECTRA OF SOME N-BENZOYL, N'-PHENYL HYDRAZINES
THESIS. HOWARD UNIV., WASHINGTON, D.C. UNIV. MICROFILMS ORDER NO. 72-14,043. DISS. ABS., 328. 12.
6922. 1972
- 490 72 126 LESTRINGUEZ J RAISBECK GM VIDOU F BERNAS R
CROSS SECTIONS FOR THE PRODUCTION OF BERYLLIUM ISOTOPES FROM THE 880 MEV ALPHA PARTICLE BOMBARDMENT
OF CARBON
PHYS. LETT. 36B. NO. 4. 331. 1971
- 490 72 127 LIARDON R GAUMANN T
SPECTRES DE MASSE DES COMPOSES ORGANIQUES. 5. PERTE DE METHANE ET D'ETHYLENE A PARTIR DES IONS
BUTYLE
HELV. CHIM. ACTA. 54. 1968. 1972
- 490 72 128 LIAS SG AUSLOOS P
ISOMERIZATION PROCESSES IN IONS OF THE EMPIRICAL FORMULA C₄H₈(+)
J. RES. NAT. BUR. STAND., 75A. NO. 6. 591. 1971
- 490 72 129 LO HM KURZWEIG L BRACKMAN RT FITE WL
ELECTRON CAPTURE AND LOSS IN COLLISIONS OF HEAVY IONS WITH ATOMIC OXYGEN
PHYS. REV., 4A. 1462. 1971
- 490 72 130 LODGE BA TOFT P
UNEQUIVOCAL DISTINCTION BETWEEN BETAMETHASONE AND DEXAMETHASONE BY MASS SPECTROMETRY
J. PHARM. SCI., 59. 1045. 1970
- 490 72 131 LONG J MUNSON B
REACTIONS AND STRUCTURES OF PENTYL IONS FROM ISOMERIC PENTANES
JACS. 94. 3339. 1972
- 490 72 132 LOUGHRAN ED WEWERKA EM HAMMONS GJ
A MASS SPECTROMETRIC STUDY OF SUBSTITUTED FURFURYL COMPOUNDS
J. HETEROCYCLIC CHEM., 9. 57. 1972
- 490 72 133 LOWN JW MATSUMOTO K
THERMALLY DISALLOWED VALENCE TAUTOMERIZATION OF AN INDANO(1,2-BIAZIRIDINE TO AN ISOQUINOLINIUM IMINE
J. ORG. CHEM., 36. 1405. 1971
- 490 72 134 MACDERMOTT WN DIX RE
MASS SPECTROMETRIC ANALYSIS OF NONFLUORINATED IONIZABLES
1. AD-718 955. FINAL RESULTS. ARNOLD ENGINEERING DEVELOPMENT CENTER. ARNOLD AIR FORCE STATION, TENN.
53P. NTIS. 2. AIAA (AMER. INST. AERONAUT. ASTRONAUT.) J., 10. 494. 1972
- 490 72 135 MACKLIN WC MAJOUBE M MERLIVAT L
ISOTOPIC ANALYSIS OF HAILSTONES
QUART. J. ROY. METEOROL. SOC., 98. 226. 1972
- 490 72 136 MAKARICHEV GK RASHKES YV
MASS SPECTROMETRY OF ALKALINE ISOMERISATION PRODUCTS OF DIFFUGENIN
KHIM. PRIROD. SOEDIN., NO. 3. 301. 1971 IN RUSSIAN
- 490 72 137 MALLABY R RYBACK G
CHEMISTRY OF A COLOUR TEST FOR ABSCISIC ACID
J. CHEM. SOC., PERKIN TRANS., II. P919. 1972
- 490 72 138 MANNI PE
SIMPLIFICATION OF EPOXIDE AND LACTONE PROTON MAGNETIC RESONANCE SPECTRA USING
TRIS(DIPIVAL METHANATO)EUROPIUM SHIFT REAGENT
J. ORG. CHEM., 37. 2769. 1972
- 490 72 139 MARSH H AKIYT JW
FORMATION OF GRAPHITIZABLE CARBONS FROM FILSONITE PITCH AND POLY(VINYL CHLORIDE). MASS SPECTROMETRIC
AND NUCLEAR MAGNETIC RESONANCE STUDY
J. APPL. CHEM. BIOTECHNOL., 21. NO. 9. 251. 1971
- 490 72 140 MASUDA Y KAGAWA R KURATSUN M
POLYCHLORINATED BIPHENYLS: DISCOVERY IN CARBONLESS COPYING PAPER
NATURE, 237. 41. 1972
- 490 72 141 MCNANIFI FW MARTIN NM
MASS SPECTROMETRIC STUDIES OF MOBILITIES, DIFFUSION, AND REACTIONS OF IONS IN GASES
AD-732 313. GEORGIA INST. OF TECHNOLOGY, ATLANTA, SCHOOL OF PHYSICS. 24P
- 490 72 142 MCDOW RS
A MASS SPECTRAL STUDY OF THE CATALYTIC OXIDATION OF AMMONIA, METHYLAMINE, AND HYDROGEN CYANIDE ON
PALLADIUM METAL
THESIS. VANDERBILT UNIV., NASHVILLE, TENN. UNIV. MICROFILMS ORDER NO. 71-29,313. DISS. ABS., 328. 5.
2635. 1971
- 490 72 143 MEL'NIKOV MV LARIKOV LN CHEREPIN VT
EFFECT OF LITHIUM VAPOR ON THE CRYSTALLINE STRUCTURE OF W AND MO
FIZ.-KHIM. MEKH. MATER., 7. NO. 3. 90. 1971 IN RUSSIAN
- 490 72 144 MIDDLEDI DG
MASS SPECTROMETRY OF PROSTAGLANDIN DERIVATIVES
AMERICAN CHEMICAL SOCIETY, SOUTHWEST REGIONAL MEETING, BATON ROUGE, LA., DEC. 6-8. 1972

- 490 72 145 MILLS FO
THERMAL DEGRADATION OF 1-DEOXY-1-PIPERIDINO-D-FRUCTOSE
CARBOHYD. RES., 15, 205, 1970
- 490 72 146 MILLSON MF
HYDROGEN ISOTOPE RATIOS IN A RECYCLING SYSTEM
J. WATER POLLUT. CONTR. FED., 43, 2287, 1971
- 490 72 147 MILNE TA BEACHEY JE GREENE FT
STUDY OF RELAXATION IN FREE JETS USING TEMPERATURE DEPENDENCE OF N-BUTANE MASS SPECTRA
J. CHEM. PHYS., 56, 3007, 1972
- 490 72 148 MULLER E
MASS SPECTROMETRIC INVESTIGATIONS WITH ALPHA,ALPHA'-BIS-ACETYLENIC KETONES
Z. NATURFORSCH., 26B, 1003, 1971 IN GERMAN
- 490 72 149 MULLER RK
ZUR STEREOCHEMIE DER THERMISCHEN FRAGMENTIERUNG VON HYDRAZON DERIVATEN SUBSTITUIERTER
N-AMINOAZIRIDINE
HELV. CHIM. ACTA, 53, 1479, 1970
- 490 72 150 MUNIR ZA STREET GB WINTERS HF
MASS SPECTROMETRIC AND VAPOR PRESSURE STUDIES ON SUBLIMATION OF REALGAR (AS4S4)
J. CHEM. PHYS., 55, 4520, 1971
- 490 72 151 MUNSON B
REVIEW OF CHEMICAL IONIZATION TECHNIQUE
ANAL. CHEM., 43, NO. 13, 28A, 1971
- 490 72 152 MURAD E
STUDY OF COLLISIONS BETWEEN LOW ENERGY N(+) AND N2: REACTION CROSS SECTIONS, ISOTOPIC COMPOSITIONS,
AND KINETIC ENERGIES OF PRODUCTS EA MAIER WM
J. CHEM. PHYS., 55, 2307, 1971
- 490 72 153 NAGATANI T HIRAGA M YOSHIHARA K SHIOKAWA T
A SPECIFIC USE OF TOHOKU CHARGE SPECTROMETER AS A CASCADE TYPE MASS SPECTROMETER
MASS SPECTRY, JAPAN, 20, 97, 1972 IN ENGLISH
- 490 72 154 NGUYEN TAN TUAN AN CINTI R CHAKRAVE BK
1. CONDENSATION OF INDIUM FILMS ON SILICON SUBSTRATES OBSERVED BY MASS SPECTROMETRIC TECHNIQUE. 2.
ADSORPTION AND CONDENSATION OF INDIUM ON SILICON SUBSTRATES STUDIED BY MASS SPECTROMETRIC
TECHNIQUE
J. CRYST. GROWTH, 13-14, 174, 1972 AND J. VAC. SCI. TECHNOL., 9, NO. 2, 956, 1972
- 490 72 155 NGUYEN-LONG-DEN DE SAINT SIMON M BOUSSIÈRES G
MASS SPECTROMETRY STUDY OF RARE EARTHS PRODUCED BY NUCLEAR REACTIONS INDUCED BY HEAVY IONS
PP 562-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 490 72 156 NISHIWAKI T
MASS SPECTROMETRY OF 2-ARYLAZIRIDIN-2-YLPHOSPHONATES
ORG. MASS SPECTRY, 6, 693, 1972
- 490 72 157 NO AUTHOR
AVIONICS IN SPACECRAFT (SEMICONDUCTOR DEVICES, MASS SPECTROSCOPY)
AD-731 151, ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT, PARIS, FRANCE, 346P
- 490 72 158 NO AUTHOR
STUDY BY RADIOCHEMICAL METHODS OF SOME PROPERTIES OF RARE EARTHS
PP 343-58 OF CONF-711001(VOL.1), IN FRENCH, FROM 9TH RARE EARTH RESEARCH CONFERENCE, BLACKSBURG, VA
., OCT. 10, 1971
- 490 72 159 NOEMMIK N THORIN J
MASS SPECTROMETRIC TECHNIQUE FOR STUDYING THE NITROGENOUS GASES PRODUCED BY THE REACTION OF NITRITE
WITH RAW HUMUS
AGROCHIMICA, 16, NO. 4-5, 319, 1972
- 490 72 160 NOONER DW ORO J GIBERT JM
UBIQUITY OF HYDROCARBONS IN NATURE: ALIPHATIC HYDROCARBONS IN WEATHERED LIMESTONE
GEOCHIM. COSMOCHEM. ACTA, 36, 983, 1972
- 490 72 161 O'LEARY MH BAUGHN RL
ACETOACETATE DECARBOXYLASE. IDENTIFICATION OF THE RATE DETERMINING STEP IN THE PRIMARY AMINE
CATALYZED REACTION AND IN THE ENZYMIC REACTION
JACS, 94, 626, 1972
- 490 72 162 OAE S
MASS, IR, NMR, AND UV SPECTROSCOPIC STUDIES AND PK(A) VALUES OF SUBSTITUTED SULFOXIMINES
INT. J. SULFUR CHEM., 2A, 49, 1972
- 490 72 163 OKADA T OKAWARA B
A NEW SOURCE OF DIBROMOKETENE
TETRAHEDRON LETS, P2801, 1971
- 490 72 164 OLIVER JE
REACTIONS OF SOME DITHIAZOLIUM CATIONS WITH POTASSIUM CYANATE
J. ORG. CHEM., 37, 131, 1972
- 490 72 165 OLSON RJ
GAMMA RAY DECAY SCHEMES FOR KR(92), RB(92), AND SR(92)
IS-T-472, THESIS, IOWA STATE UNIV., AMES, NOV. 1971, 176P, AMES LAB, USAEC, NTIS
- 490 72 166 OSKAM HJ
STUDY OF COLLISION PROCESSES IN GASEOUS PLASMAS
AD-731 533, FINAL REPORT, DEC. 1967 - JULY 1971, MINNESOTA UNIV., MINNEAPOLIS, DEPT. OF ELECTRICAL
ENGINEERING, JULY 1971, 22P, ARCL-71-407, NTIS
- 490 72 167 OTAKE T
STUDIES OF TRITYLATED SUCROSE. 1. MONO-O-TRITYLSUCROSES
BULL. CHEM. SOC. JAPAN, 43, 3199, 1970

- 490 72 168 OTWINOWSKA H
QUALITATIVE ANALYSIS WITH THE AID OF LKB-9000 MASS SPECTROMETER OF THE PRODUCTS OF OZONIZATION OF
ERUCIC ACID (C₂₂H₄₂O₂)
CHEM. ANAL. (WARSAW), 27, PT. 1, 127, 1972 IN POLISH
- 490 72 169 PAHL M LINDINGE W HOWORKA F
MASS SPECTROMETRIC STUDIES OF NEGATIVE GLOW OF A CYLINDRICAL HOLLOW CATHODE DISCHARGE
Z. NATURFORSCH., 27A, 678, 1972 IN GERMAN
- 490 72 170 PANDHARE ED
APPLICATIONS OF NMR SPECTROSCOPY AND MASS SPECTROMETRY TO SOME PROBLEMS CONCERNING SYNTHETIC DYES.
8. POSITION OF THE ARYL GROUP IN TWO BETA-(P-METHOXYPHENYL)-4,8-DIAMINO-1,5-
DIHYDROXYANTHRAQUINONES
INDIAN J. CHEM., 9, 1060, 1971
- 490 72 171 PEDERSEN CT MOLLER J HUAMAN NL (2)
1. MASS SPECTROMETRIC STUDIES OF METHYL AND PHENYL SUBSTITUTED 1,2-DITHIOLE-3-THIONES AND 1,2-
DITHIOLE-3-ONES. 2. MASS SPECTROMETRIC STUDIES OF 1,6,6A(IV) S-TRITHIAPENTALENE AND ARYL
SUBSTITUTED 1,6,6A(IV) S-TRITHIAPENTALENES
ACTA CHEM. SCAND., 26, 250 AND 565, 1972
- 490 72 172 PEROZZI EF MARTIN JC
SULFURANES. 8. ISOLATION AND CHARACTERIZATION OF A DIALKOXYDIARYLSULFURANE OXIDE, A CRYSTALLINE
PENTACOORDINATE SULFUR(VI) SPECIES
JACS, 94, 5519, 1972
- 490 72 173 PETER F GUION J
COMPARATIVE STUDY BY MASS SPECTROMETRY OF A SERIES OF PERCHLOROFLUOROBENZENES AND
PERCHLOROFUOROPYRIDINES
ORG. MASS SPECTRY, 6, 349, 1972
- 490 72 174 PETROV AA SOKOVA KM KAMZOLKI VV
STEREOSPECIFIC COMPOSITION OF OLEFINS FORMED IN PYROLYSIS OF ACETATES AND DEHYDRATION OF SECONDARY
ALCOHOLS
DOKL. AKAD. NAUK SSSR, 203, 123, 1972 IN RUSSIAN
- 490 72 175 PETRZHAK KA TEPLYKH VF PAN'YAN MG DEMIN VA
RELATIVE YIELDS OF XENON ISOTOPES IN PHOTOFISSION OF U(238)
SOV. J. NUCL. PHYS. (ENGL. TRANS.), 14, 532, 1972. TRANSLATED FROM YADERN. FIZ., 14, 950, 1971
- 490 72 176 POMERANTZ M
MECHANISM OF THE PYROLYTIC LOSS OF CH₂ FROM 1,2-BENZOTROPILIDENE
JACS, 94, 1403, 1972
- 490 72 177 PORTER ON SEIF AE
MASS SPECTROMETRIC STUDIES. 11. SKELETAL REARRANGEMENTS IN ACYLHYDRAZINES
AUSTRALIAN J. CHEM., 26, 523, 1972
- 490 72 178 PREISS H KRIEGSMANN H (3)
1. MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN AN EINIGEN HALOGENIDEN DER 5. HAUPT UND NEBENGRUPPE. 2.
MASSENSPEKTROMETRISCHE STRUKTURUNTERSUCHUNGEN AN EINIGEN NIOB UND ANTIMONALKOXYCHLORIDEN. 3.
MASSENSPEKTROSKOPISCHE UNTERSUCHUNG DER DEPOLYMERISATIONPRODUKTE DES DIBUTYLZINNOXIDES
Z. ANORG. ALLG. CHEM., 389, 280 AND 293, 1972. AND Z. CHEM., 12, NO. 9, 352, 1972
- 490 72 179 RAISBECK GW YIOU F
CROSS SECTION FOR BE(10) PRODUCTION BY HIGH ENERGY FRAGMENTATION OF OXYGEN

NATURE, PHYS. SCI., 233, 73, 1971
- 490 72 180 RAPAPORT E
CHEMILUMINESCENCE OF CERTAIN ALDEHYDES, KETONES, AND PEROXIDES
JACS, 94, 3160, 1972
- 490 72 181 RASHKES VV
1. SOME PROBLEMS OF THE MASS SPECTROMETRY OF CARDENOLIDES. 2. MASS SPECTROMETRY IN STUDYING THE
STRUCTURE OF CARBOXYALKYLATION PRODUCTS OF ALKYL BENZENES
KHIM. PRIROD. SOEDIN., NO. 6, 747, 1971 AND Zh. ORG. KHIM., 8, 87, 1972
- 490 72 182 RASMUSSEN DV
MASS SPECTROMETRIC DETERMINATION OF CONDENSABLE MATERIALS IN NONCONDENSABLE MEDIA
CAN. J. SPECTROSC., 17, 79, 1972
- 490 72 183 REGEL VR POZDNYAKOV OF
ANALYSIS OF TRIBOCHEMICAL REACTIONS IN POLYMERS BY MASS SPECTROMETRY
PLASTE KAUTSCHUK, 19, 99, 1972
- 490 72 184 REISTAD KR UNDHEIM K
MASS SPECTROMETRY OF ONIUM COMPOUNDS. 7. THIAZOLO(3,2-A)PYRIDINIUM-8-OXIDES
ACTA CHEM. SCAND., 25, 2954, 1971
- 490 72 185 RENNEKAMP ME PAUKSTEL JV COOKS RG
INVESTIGATION INTO MECHANISM OF GASPHASE TAUTOMERISM USING MASS SPECTROMETRY. OXAZOLIDINES AND
BETA-DIKETONES
TETRAHEDRON, 27, 4407, 1971
- 490 72 186 RIEPE M ZANDER M
MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN AN ANELLIERTEN PHENOTHIAZINEN UND PHENOTHIAZINYLEN
Z. NATURFORSCH., 27A, 170, 1972
- 490 72 187 ROBERTS M UWENS G
DIRECT MASS SPECTROGRAPHIC MEASUREMENT OF REGIONAL INTRACEREBRAL OXYGEN, CARBON DIOXIDE, AND GAS
J. NEUROSURG., 37, 706, 1972
- 490 72 188 ROEPSTORFF P BRUNFLOT K
USE OF DEUTERATED DERIVATIVES IN PEPTIDE MIXTURE ANALYSIS BY MASS SPECTROMETRY
FEBS (FED. EUR. BIOCHEM. SOC.) LETTS, 21, 320, 1972
- 490 72 189 ROSIE DA SHONE CG
REACTIONS OF FATTY CYCLOPROPENOLIDS WITH HYDROGEN HALIDES AND HALOGENS
J. CHEM. SOC. PERKIN TRANS., 1, P1750, 1972

- 490 72 190 ROZINDY BV
MASS SPECTROMETRIC SPECIFICATIONS OF PORPHYRIN SYSTEMS WITH BULKY SUBSTITUENT IN MESOPOSITION
KHIM. PRIROD. SOEDIN., NO. 2, 197, 1971 IN RUSSIAN
- 490 72 191 RUCKER G NATARAJA PN FELL AF
MASSENSPEKTROMETRIE VON HYDANTOINEN
ARCH. PHARM., 304, 883, 1971
- 490 72 192 SABU DD
ON MASS-YIELD OF XENON AND KRYPTON ISOTOPES IN THE SPONTANEOUS FISSION OF URANIUM
J. INORG. NUCL. CHEM., 33, 1509, 1971
- 490 72 193 SACHER RE
STRUCTURAL AND MASS SPECTROMETRIC STUDY OF GROUP-IVA ACETYLIDES
THESIS, BOSTON COLLEGE, MASS. UNIV. MICROFILMS ORDER NO. 70-24,611, DISS. ABS., 318, 6, 3310, 1970
- 490 72 194 SALAKH MS PETROV AA
COMPOSITION OF HYDROISOMERIZATION PRODUCTS OF HIGHER NORMAL ALKANES
KHIM. TEKH. TOPLIV. MASL., NO. 5, 9, 1972 IN RUSSIAN
- 490 72 195 SALVADORI G WILLIAMS A
DEMONSTRATION OF INTERMEDIATES IN THE HYDROLYSIS OF 4-ETHOXYPIRYLIUM SALTS
JACS, 93, 2727, 1971
- 490 72 196 SCHILLER J CHUNG AE
MECHANISM OF CYCLOPROPANE RING CLEAVAGE IN CYCLOPROPANECARBOXYLIC ACID
J. BIOL. CHEM., 245, 6553, 1970
- 490 72 197 SCHONING EK
POSSIBILITIES FOR THE USE OF A GAS MASS SPECTROMETER (VARIAN MAT M3) IN ANAESTHESIA
ANAESTHESIST, 27, NO. 7, 318, 1972
- 490 72 198 SCHULMAN M PARKER D LJUNGDAH LG WOOD HG
TOTAL SYNTHESIS OF ACETATE FROM CO₂. 5. DETERMINATION BY MASS ANALYSIS OF DIFFERENT TYPES OF ACETATE
FORMED FROM C(13)O₂ BY HETEROTROPHIC BACTERIA
J. BACTERIOL., 109, 633, 1972
- 490 72 199 SCHWARZ RA
CARBANIONS AND MULTIPLE ANIONS OF CERTAIN SULFONYL CONTAINING SYSTEMS: CONDENSATIONS AND REACTIONS
OF SEVERAL PRODUCTS. SYNTHESIS AND MASS SPECTROSCOPY OF ISOXAZOLES. SYNTHESIS OF MODEL COMPOUNDS
FOR A NOVEL YLIDE ADDITION REACTION
THESIS, DUKE UNIV., DURHAM, N.C. UNIV. MICROFILMS ORDER NO. 70-23,410, DISS. ABS., 318, 6, 3278, 1970
- 490 72 200 SCOTT EJJ CHESTER AW
KINETICS OF THE COBALT CATALYZED AUTOXIDATION OF TOLUENE IN ACETIC ACID. THE ROLE OF COBALT
J. PHYS. CHEM., 76, 1520, 1972
- 490 72 201 SELVARAJAN R BOYER JM
INTERMEDIACY OF PHENYLPROPARGYLENE AND PHENYLETHYNYLNITRENE
J. ORG. CHEM., 36, 1679, 1971
- 490 72 202 SERGEEV PV MANUSADZ VG MULTANOV MM
MASS SPECTROMETRIC ANALYSIS OF ACETYLCHOLINE CHLORIDE
ZH. FIZ. KHIM., 45, 2481, 1971 IN RUSSIAN
- 490 72 203 SESSA PA
MASS SPECTROMETRIC INVESTIGATION OF THE SYNTHESIS AND MOLECULAR ENERGETICS OF
NITROGEN-OXYGEN-FLUORINE COMPOUNDS
THESIS, GEORGIA INST. OF TECHNOLOGY, ATLANTA, UNIV. MICROFILMS ORDER NO. 71-17,340, DISS. ABS., 328, 1, 149, 1971
- 490 72 204 SEVERIN D
NEW METHOD OF MASS SPECTROSCOPIC ANALYSIS OF HIGH BOILING PETROLEUM CUTS
ERDOEL KOHLE, ERDGAS, PETROCHEM., BRENNST. CHEM., 25, 514, 1972 IN GERMAN
- 490 72 205 SHAPIRO MH
INTERPRETATION OF RECENT DOUBLE BETA DECAY RESULTS
PP 1307-11 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 2, 1969
- 490 72 206 SHERETOV EP KOLOTILIN BI
CALCULATION OF CHARGED PARTICLE VIBRATION AMPLITUDES IN QUADRUPOLE MASS SPECTROMETERS
ZH. TEKH. FIZ., 42, 1931, 1972 IN RUSSIAN
- 490 72 207 SHERROD SA BERGMAN RG
GENERATION AND REARRANGEMENTS OF THE 1-CYCLOPROPYLVINYL CATION. COMPARISON OF INTERMEDIATES FORMED
UPON IONIZATION OF 1-CYCLOPROPYL-1-iodoethylene AND 3,4-PENTADIEN-1-YL IODIDE
JACS, 93, 1925, 1972
- 490 72 208 SHINE HJ SILBER JJ
ION RADICALS. 24. REACTION OF THIANTHRENE PERCHLORATE WITH AMMONIA
JACS, 94, 1026, 1972
- 490 72 209 SHRADER SR
I. MASS SPECTRAL STUDY OF SOME BICYCLIC HALIDES. II. MASS SPECTRAL STUDY OF
BI³-BENZYL-TETRAHYDROISOQUINOLINE ALKALOIDS
THESIS, WAYNE STATE UNIV., DETROIT, MICH. UNIV. MICROFILMS ORDER NO. 71-12,066, DISS. ABS., 318, 11, 6522, 1971
- 490 72 210 SHULTZ JL SHARKEY AG BROWN RA
DETERMINATION OF MASS SPECTROMETRIC SENSITIVITY DATA FOR HYDROCARBONIC COMPOUNDS
ANAL. CHEM., 44, 1486, 1972
- 490 72 211 SIEGEL MW
MASS SPECTRA STIMULATED BY O(+) AND Ar(+) INTERACTING WITH A SURFACE
J. CHEM. PHYS., 57, 3576, 1972
- 490 72 212 SIMOV D TAULOV IG
MASS SPECTROMETRY OF PHENOTHIAZINES. 1. 10-ALKYLPHENOTHIAZINES
ORG. MASS SPECTRY, 5, 1133, 1971

- 490 72 213 SIMPSON MC JOHNSON BW
MASS SPECTROMETRIC INVESTIGATION OF GASES IN GLASS
VACUUM, 21, NO. 3-4, 95, 1971
- 490 72 214 SINGLETON DL STAFFORD FE
MASS SPECTROMETRIC STUDY OF TRANSITION METAL OXO AND THIOALIDES
COO-1147-43, NORTHWESTERN UNIV., EVANSTON, ILL., 1971, 40P, NTIS
- 490 72 215 SMID RJ
GAS RELEASE FROM THORIA BASE OXIDE FUEL PELLETS
WAPD-TM-850, LWBK DEVELOPMENT PROGRAM, BETTIS ATOMIC POWER LAB., PITTSBURGH, PA., APRIL 1971, 33P, NTIS
- 490 72 216 SMITH BN
CARBON ISOTOPE RATIOS OF RESPIRED CO₂ FROM CASTOR BEAN, CORN, PEANUT, PEA, RADISH, SQUASH, SUNFLOWER
AND WHEAT SEEDLINGS
PLANT CELL PHYSIOL., 12, 451, 1971
- 490 72 217 SMITH GR
SEARCH FOR THE DOUBLE BETA DECAY OF ND(150) USING A MAGNETIC SPECTROMETER
PHYS. REV., 4C, 1344, 1971
- 490 72 218 SMITH PJ DIMMOCK JR TAYLOR WG
MASS SPECTROMETRY OF SOME NUCLEAR SUBSTITUTED STYRYL KETONES
CAN. J. CHEM., 50, 871, 1972
- 490 72 219 STAFFORD AE BLACK OR HADDON WF
ANALYSIS AND IMPROVED SYNTHESIS OF PARASORBIC ACID
J. SCI. FOOD AGR., 23, 771, 1972
- 490 72 220 STARK M MOLLENSTEDT G (1)
1. MASS SPECTROMETRY OF IONS EMITTED FROM A SMALL SOLID AREA UNDER ELECTRON BOMBARDMENT. 2. MASS
SPECTROMETRY OF IONS EMITTED FROM A SOLID AREA UNDER ELECTRON BOMBARDMENT
OPTIK, 34, 70, 1971 AND 34, 139, 1972 IN GERMAN
- 490 72 221 STEEL G HENDERSON W
RAPID METHOD FOR DETECTION AND CHARACTERIZATION OF STEROIDS
ANAL. CHEM., 44, 1302, 1972
- 490 72 222 STEHELIN L
TRANSAMINULAR HYDRIDE SHIFTS, A MECHANISTIC STUDY IN THE LONGICOLENE SERIES
JACS, 93, 1650, 1971
- 490 72 223 STUART JM
SPACE STATION SIMULATOR ATMOSPHERE ANALYZER
N71-30743, PERKIN-ELMER CORP., POMONA, CALIF., AEROSPACE DIV. 131P, NTIS
- 490 72 224 STUART TS GAFFRON H
THE GAS EXCHANGE OF HYDROGEN ADAPTED ALGAE AS FOLLOWED BY MASS SPECTROMETRY
PLANT PHYSIOL., 50, 136, 1972
- 490 72 225 SVENSSON L
STUDIES ON CATECHOL ESTER, 4, MASS SPECTROMETRY
ACTA CHEM. SCAND., 26, 2663, 1972
- 490 72 226 TAKAYAMA Y

MASS ANALYTICAL STUDY OF POLYACRYLONITRILE PYROLYSIS PRODUCTS
KOGYO KAGAKU ZASSHI, 61, 1021, 1958, TLT-301 (NLL 8660,5) 9P

- 490 72 227 TAL'ROSE VL DODONOV AF (1) LEIPUNSKII IO (1) MOROZOV II (1) SKURAT VE (2)
GORODETS IG (2)
1. MASS SPECTROMETRIC IDENTIFICATION OF THE PARAMAGNETIC COMPONENT OF A MOLECULAR BEAM. 2. MASS
SPECTROMETRIC ANALYSIS OF A MIXTURE OF CARBOXYLIC ACIDS
1. J. MASS SPECTRY, ION PHYS., 7, 363, 1971. 10 REFERENCES. PRESENTED AT THE TRIENNIAL INTERNATIONAL
MASS SPECTROMETRY CONFERENCE, BRUSSELS, 1970. 2. Zh. ANAL. KHIM., 26, 2205, 1971 IN RUSSIAN.
- 490 72 228 THIBAUT-PHILLIP C
ON-LINE MASS SPECTROMETRY OF EXOTIC LIGHT NUCLEI PRODUCED IN HIGH ENERGY REACTIONS
FRNC-TH-81, THESIS, PARIS UNIV., ORSAY, FRANCE, 1971, 120P IN FRENCH, NTIS
- 490 72 229 THOMAS CB WILLSON JS
IDENTIFICATION OF ISOMERIC DI AND POLYNITROBIPHENYLS BY MASS SPECTROMETRY
J. CHEM. SOC., PERKIN TRANS., 11, P778, 1972
- 490 72 230 TIMBEKOV EH ESHBAJEV FS ASLANOV MA
MASS SPECTROMETRY STUDY OF QUINOLIZIDIN GROUP DERIVATIVES
KHIM. PRIROD. SOEDIN., NO. 2, 194, 1972 IN RUSSIAN
- 490 72 231 TOFT P LODGE BA SIMARD MB
MASS SPECTROPHOTOMETRY OF SOME CORTICOSTEROIDS AND RELATED COMPOUNDS OF PHARMACEUTICAL INTEREST
CAN. J. PHARM. SCI., 7, NO. 2, 53, 1972
- 490 72 232 TRACY BL CHAUMONT J KLAPISCH R
RB AND CS ISOTOPIC CROSS SECTIONS FROM 40 TO 60 MEV PROTON FISSION OF U(238), TH(232), AND U(235)
PHYS. REV., 5C, 222, 1972
- 490 72 233 TRINKS H
MASSENSPEKTROMETRISCHE UNTERSUCHUNG IN HYPERSCHALL-LUFT-STROEMUNGEN (STUDY OF HYPERSONIC AIR FLOW BY
MASS SPECTROMETRY)
N72-25444, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 490 72 234 TSUCHIYA M SAKURAI T MARUYAMA S SYEC HJ
STUDY OF HIGHLY EXCITED ARGON BY A DOUBLE BEAM MASS SPECTROMETER
MASS SPECINT, JAPAN, 19, 217, 1971 IN JAPANESE
- 490 72 235 TSUKIDA K SAIKI K
DETERMINATION OF VITAMINS D, MASS SPECTROMETRIC DETERMINATION OF VITAMINS D IN A MIXTURE
INT. J. VITAM. NUTR. RES., 42, NO. 2, 242, 1972

- 490 72 236 UEDA T TAKADA A TAKASHI K
SYNTHESES AND MASS SPECTROMETRIC ANALYSIS OF AMIDINOTHIUREA DERIVATIVES.
CHEM. PHARM. BULL. (TOKYO), 19, 1990, 1971
- 490 72 237 UNDEHEIM K FJELSTAD PE (1) TVEITA PO (1) HURUM T (2,3)
1. MASS SPECTROMETRY OF ONIUM COMPOUNDS. V. THIAZOLO(3,2-A)PYRIDINIUM-3-OXIDES. 2. MASS SPECTROMETRY-
OF 3-HYDROXYPYRIDINES. 3. MASS SPECTROMETRY OF ONIUM COMPOUNDS. VIII. DIHYDROTHIAZOLO(3,2-
A)PYRIDINIUM DERIVATIVES
ACTA CHEM. SCAND., 25, 2943, 1971, AND 26, 2075 AND 2385, 1972
- 490 72 238 UNTERHAL B
MASSENSPEKTROMETRISCHE UNTERSUCHUNG VON 3,5-DIOXOPYRAZOLIONEN UND DEREN MEHTYLIERUNGSPRODUKTEN
ARCH. PHARM., 305, 334, 1972
- 490 72 239 VANDENHEUVEL WJA SMITH JL HAUG P
MASS SPECTROMETRY OF TRIMETHYLSILYL DERIVATIVES OF DISUBSTITUTED PYRIDINES, QUINOLINES, PYRIMIDINES,
AND PTERIDINES
J. HETEROCYCLIC CHEM., 9, 451, 1972
- 490 72 240 WACKS ME LAURIE WA
MASS SPECTRAL INVESTIGATION OF PESTICIDES
AD-729 907, ARIZONA UNIV., TUCSON, 40P, NTIS
- 490 72 241 WARRENER RN
ISOLATION OF ISOBENZOFURAN, A STABLE BUT HIGHLY REACTIVE MOLECULE
JACS, 93, 2346, 1971
- 490 72 242 WEINKAM RJ JORGENSEN EC
FREE RADICAL ANALOGS OF HISTIDINE
JACS, 93, 7028, 1971
- 490 72 243 WEWERKA EM LOUGHRAN ED WALTERS KL
STUDY OF LOW MOLECULAR WEIGHT COMPONENTS OF FURFURYL ALCOHOL POLYMERS
J. APPL. POLYM. SCI., 15, 1437, 1971
- 490 72 244 WHITESIDES GM LEWIS DW
DETERMINATION OF ENANTIOMERIC PURITY USING CHIRAL LANTHANIDE SHIFT REAGENTS
JACS, 93, 5914, 1971
- 490 72 245 WULFSON NS ZAIKIN VG ZIYAVIDI ZS
MASS SPECTROMETRIC STUDY OF 4-HYDROXY-6-METHYL-2-PYRIDONE AND ITS DERIVATIVES
ORG. MASS SPECTRY, 5, 743, 1971
- 490 72 246 YAMADA K
MASS SPECTROMETRY OF PYRIMIDOPYRIMIDINE DERIVATIVES
J. CHEM. SOC. JAPAN, 74, 952, 1971 IN JAPANESE
- 490 72 247 ZAHAROV PI
MASS SPECTROMETRIC STUDY OF 3',4'-DIOXY AND 3',4'-DIACLOXYDIHYDROPYRANO COUMARINS
KHIM. PRIROD. SOEDIN., NO. 6, 704, 1971 IN RUSSIAN
- 490 72 248 ZEMAN A WIROTAMA IPG
IDENTIFICATION OF AMINES. 3. THIN-LAYER CHROMATOGRAPHY AND MASS SPECTROMETRY OF 4-DIMETHYLAMINO-3,5-
DINITROBENZYL DERIVATIVES (DADB-AMINES)
Z. ANAL. CHEM., 259, NO. 5, 351, 1972 IN GERMAN
- 500 72 001 BORST WL WELLS WC (2) ZIPF EC (2)
1. EXCITATION OF SEVERAL IMPORTANT METASTABLE STATES OF N2 BY ELECTRON IMPACT. 2. EXCITATION OF THE
METASTABLE E(3)EPSILON(G)(+) STATE OF N2 BY ELECTRON IMPACT
PHYS. REV., 5A, 648 AND 1744, 1972
- 500 72 002 COOPER CD COMPTON RN
METASTABLE ANIONS OF CO2
CHEM. PHYS. LETT., 14, 29, 1972
- 500 72 003 COUTANT JE MCLAFFERTY FW
METASTABLE ION CHARACTERISTICS. 20. AUTOMATED ACQUISITION OF METASTABLE ION DATA USING AN ON-LINE
COMPUTER WITH FEEDBACK CONTROL
J. MASS SPECTRY, ION PHYS., 8, 323, 1972, 37 REFERENCES
- 500 72 004 HILLS LP
STUDIES OF METASTABLE IONS IN MASS SPECTRA
THESIS, UNIV. OF UTAH, SALT LAKE CITY, UNIV. MICROFILMS ORDER NO. 71-3170, DISS. ABS., 318, 8, 4612,
1971
- 500 72 005 LOCKE JW
A CRITICAL EVALUATION OF THE METASTABLE TIME-OF-FLIGHT TECHNIQUE FOR OBTAINING MOLECULAR VELOCITY
DISTRIBUTIONS
THESIS, UNIV. OF TORONTO, CANADA, DISS. ABS., 318, 11, 6801, 1971
- 500 72 006 MASTAN I
METASTABLE DISSOCIATION OF MOLECULAR IONS
STUD. CERCET. FIZ., 23, 555, 1971
- 500 72 007 MATSUMOTO A HAYAKAWA T TANIGUCHI S (1)
1. DISSOCIATION OF HYDROGEN AND N-BUTANE METASTABLE IONS BY A PULSED ION SOURCE. 2. DISSOCIATION
MECHANISM OF HYDROGEN METASTABLE IONS
1. PP 820-7 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 2, 1969. 2. MASS SPECTRY, JAPAN, 19,
294, 1971 IN ENGLISH
- 500 72 008 READ TJ WILLIAMS DH
INVESTIGATION OF UNIMOLECULAR DECOMPOSITION AND ISOMERISATION REACTIONS OF SOME METASTABLE
CARBOXYONIUM IONS IN THE GAS PHASE
J. CHEM. SOC. B, P1654, 1971
- 500 72 009 REDHEAD PA
SEQUENTIAL IMPACT MASS SPECTROMETRY: ESTIMATES OF METASTABLE ION CROSS SECTIONS
CAN. J. PHYS., 49, 3059, 1971

- 500 72 010 UCCELLA NA HOWE I WILLIAMS DH
STRUCTURE AND ISOMERISATION OF GASEOUS C₃H₈N(+) METASTABLE IONS
J. CHEM. SOC. B, P1933, 1971
- 500 72 011 VUJOVIC M MATICS M COBIC B GORDEEV YS
ANALYSIS OF METASTABLE STATE POPULATION IN FAST ION BEAMS
J. PHYS. B, 4, NO. 4, L18, 1971
- 505 72 001 ALEXANDER RG BIGLEY DB TODD JF
SKELETAL REARRANGEMENTS IN NEGATIVE ION MASS SPECTRUM OF AN YLIDE
J. CHEM. SOC., CHEM. COMMUN., P553, 1972
- 505 72 002 AMINOV IK KHVOSTENKO VI
MASS SPECTRA OF NEGATIVE IONS OF THIOPHANE AND ITS ALKYL DERIVATIVES
KHIM. GETEROT. SOEDIN., P1631, 1971 IN RUSSIAN
- 505 72 003 ARAKAWA K SUGIURA T
STUDY OF NEGATIVE ION FORMATION BY ELECTRON IMPACT. 2. C(-) AND O(-) ION FORMATIONS FROM CARBON MONOXIDE
MASS SPECTRY. JAPAN, 20, 51, 1972 IN ENGLISH
- 505 72 004 ARNOLD F KRANKOWSKY D KISSEL J (1) WIEDER H (1) ZAEHRINGER J (1)
1. NEGATIVE IONS IN THE LOWER IONOSPHERE: A MASS SPECTROMETRIC MEASUREMENT. 2. NEGATIVE ION IN LOWER IONOSPHERE: COMPARISON OF A MODEL COMPUTATION AND MASS SPECTROMETRIC MEASUREMENT
J. ATMOS. TERREST. PHYS., 33, 1169 AND 1693, 1971
- 505 72 005 AZRIA R TRONC M GOURSARD S
FORMATION OF NEGATIVE IONS BY DISSOCIATIVE ATTACHMENT IN H₂S
J. CHEM. PHYS., 56, 4234, 1972
- 505 72 006 BAUMANN H HEINICKE E KAISER HJ BETHGE K
EXISTENCE OF DOUBLY NEGATIVE CHARGED HEAVY IONS
NUCL. INSTRUM. METHODS, 95, 389, 1971
- 505 72 007 BLACKMAN AJ BOWIE JH
MASS SPECTRA OF 1,2,4-TRIAZOLES. 3. NEGATIVE ION MASS SPECTRA OF NITROPHENYL-1,2,4-TRIAZOLES
AUSTRALIAN J. CHEM., 25, 1335, 1972
- 505 72 008 BLUMENTHAL T BOWIE JH
ELECTRON IMPACT STUDIES. 58. NEGATIVE ION MASS SPECTROMETRY OF FUNCTIONAL GROUPS. REARRANGEMENTS OF NITROPHthalic ANHYDRIDES
AUSTRALIAN J. CHEM., 24, 1853, 1971
- 505 72 009 BOUBY L FIQUET-FAYARD F BODERE C
ATTACHEMENT D'ELECTRONS THERMIQUES SUR L'ANHYDRIDE SULFUREUX EN PHASE GAZEUSE
J. MASS SPECTRY, ION PHYS., 7, 415, 1971, 10 REFERENCES
- 505 72 010 BOWIE JH WHITE PY (1) NUSSEY B (2)
1. ELECTRON IMPACT STUDIES. LXV. NEGATIVE ION MASS SPECTROMETRY OF FUNCTIONAL GROUPS-2-ARYL-1,3-DITHIANES. 2. ELECTRON IMPACT STUDIES. LXX. SUBSTITUENT EFFECTS IN NEGATIVE ION SPECTRA OF NITROARYL ESTERS
ORG. MASS SPECTRY, 6, 75 AND 429, 1972
- 505 72 011 BRION CE OLSEN LAR
NEGATIVE ION FORMATION IN TETRACYANODETHYLENE
J. MASS SPECTRY, ION PHYS., 9, 413, 1972, 12 REFERENCES
- 505 72 012 BURKE RR MILLER WJ GOULD RK
FLUORINE NEGATIVE ION DETACHMENT KINETICS
N72-16067, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 505 72 013 CHANTRY PJ
SPURIOUS DISSOCIATIVE ATTACHMENT PEAKS FROM INELASTIC LOSS REACTIONS
J. CHEM. PHYS., 55, 1851, 1971
- 505 72 014 CHRISTOPHOROU LG
INTERMEDIATE PHASE STUDIES FOR UNDERSTANDING RADIATION INTERACTION WITH CONDENSED MEDIA: THE ELECTRON ATTACHMENT PROCESS
CONF-720408-1, OAK RIDGE NATIONAL LAB., TENN., AND TENNESSEE UNIV., KNOXVILLE, DEPT. OF PHYSICS, 1971, 19P, NTIS, FROM CONFERENCE ON ELEMENTARY PROCESSES IN RADIATION CHEMISTRY, NOTRE DAME, INDIANA, APRIL 4, 1972
- 505 72 015 COMPTON RN HUEBNER RH (1) ANDERSON VE (2) CARTER A (2)
1. COLLISIONS OF LOW ENERGY ELECTRONS WITH MOLECULES: THRESHOLD EXCITATION AND NEGATIVE ION FORMATION. 2. ELECTRON AND ION COLLISION PHYSICS
1. ADVAN. RADIAT. CHEM., 2, 281-381, 1970. 2. PP 56-68 OF ORNL-4720, HEALTH PHYSICS DIVISION ANNUAL PROGRESS REPORT PERIOD ENDING JULY 31, 1971, OAK RIDGE NATIONAL LAB., TENN., OCT. 1971
- 505 72 016 CRAGGS JD
NEGATIVE IONS
PP. 59-83 OF PHENOMENA IN IONIZED GASES, 1971, DAVENPORT, P.A. (ED.), DONALD PARSONS AND CO. LTD., OXFORD, 1971, FROM 10TH INTERNATIONAL CONFERENCE, OXFORD, ENGLAND, SEPT. 13, 1971, 55 REFERENCES
- 505 72 017 OEVODARIA AZ DEMKOV YN
QUADRATIC APPROXIMATION IN THEORY OF ELECTRON DETACHMENT AT COLLISION OF NEGATIVE ION WITH ATOM
VESTN. LENINGRAD. UNIV., FIZ., KHIM., NO. 3, 23, 1971
- 505 72 018 DI DOMENICO A FRANKLIN JL
NEGATIVE IONS IN MASS SPECTRUM OF NITROMETHANE
J. MASS SPECTRY, ION PHYS., 9, 171, 1972, 25 REFERENCES
- 505 72 019 ORANCA PM
AMPLIFICATEUR DE RADIOFREQUENCE A IONS NEGATIFS MOLECULAIRES LABILES D'OXYGENE
REV. ROUM. PHYS., 16, 729, 1971
- 505 72 020 DRULLING LF GRIFFITH JE
SF₅(-) ANION: SYNTHESIS, STRUCTURE, VIBRATIONAL SPECTRA, AND THERMODYNAMIC FUNCTIONS
SPECTROCHIM. ACTA, 27A, 1793, 1971

- 505 72 021 FAISAL FMH BHATIA AK
ELECTRON DETACHMENT OF H(-) BY E(-) COLLISION
PHYS. REV., 5A, 2144, 1972
- 505 72 022 FEDORENKO NV
ELECTRON CAPTURE AND LOSS PROCESSES FOR HYDROGEN ATOMS, PROTONS, AND NEGATIVE IONS IN ATOMIC AND
MOLECULAR GASES: EXPERIMENTAL DATA ON CROSS SECTIONS
PP 54-78 OF PHYSICS OF IONIZED GASES. NAVINSEK, B. (ED.). INSTITUT JOZEF STEFAN, LJUBLJANA,
YUGOSLAVIA, 1970. FROM 5TH PLASMA PHYSICS SYMPOSIUM, MERCEGNOVI, YUGOSLAVIA. CONF-700706
- 505 72 023 FIELD D
CNDO CALCULATIONS ON SOME NEGATIVE HYDROCARBON IONS AND REACTIONS
J. MOL. SPECTROSC., 12, 451, 1972
- 505 72 024 FIQUET-FAYARD F ZIESEL JP AZRIA R TRONC M CHIARI J
FORMATION OF HS(-) AND OS(-) BY DISSOCIATIVE ATTACHMENT IN H2S, HDS, AND O2S
J. CHEM. PHYS., 56, 2540, 1972
- 505 72 025 FREEMAN JH TEMPLE W CHIVERS D
NOTE ON THE PRODUCTION OF INTENSE BEAMS OF NEGATIVE HEAVY IONS
NUCL. INSTRUM. METHODS., 94, 581, 1971
- 505 72 026 GALLAGHER DA TODD JFJ
NONSTANDARD APPLICATIONS OF AEI MASSMASTER: NEGATIVE IONS AND MASS NUMBERS IN EXCESS OF 1000
J. MASS SPECTRY, ION PHYS., 7, 336, 1971, 1 REFERENCE
- 505 72 027 GOLDEN DE
TEMPORARY FORMATION OF H2(-) ABOVE THE H2(+) THRESHOLD BY ELECTRON IMPACT
PHYS. REV. LETT., 27, 227, 1971
- 505 72 028 GUSEV VA OKSYUK AA FOGEL YM
DISSOCIATION OF DIATOMIC MOLECULES INTO IONS BY IMPACT OF FAST IONS AND ATOMS
ZH. EKSP. TEOR. FIZ., 62, 1284, 1972 IN RUSSIAN
- 505 72 029 HARLAND PW THYNNE JC
EFFECT OF SUBSTITUENTS UPON AUTODETACHMENT LIFETIMES OF PERFLUOROBENZENE AND NITROBENZENE ANIONS
J. CHEM. SOC., CHEM. COMMUN., P476, 1972
- 505 72 030 HUBIN-FRANSKIN MJ COLLIN JE
THRESHOLD ELECTRON IMPACT EXCITATION SPECTRA. 4. TRIATOMIC MOLECULES: N2O, CO2, COS, CS2
BULL. SOC. ROY. SCI. LIEGE, 40, NO. 5-8, 361, 1971
- 505 72 031 KAISER HJ HEINICKE E BAUMANN M BETHGE K
NEGATIVELY CHARGED ATOMIC AND MOLECULAR IONS
PP 237-44 OF BNL-50310. FROM SYMPOSIUM ON ION SOURCES AND FORMATION OF ION BEAMS, UPTON, N.Y., OCT.
19, 1971
- 505 72 032 KAJDAS C
1. NEGATIVE IONIZATION OF NORMAL PARAFFIN HYDROCARBONS C6-C9, C20, C22, AND C24 IN THE ELECTRON
ATTACHMENT MASS SPECTROGRAPHY. 2. NEGATIVE IONIZATION AND FRAGMENTATION OF 3-THEYLHEPTACECAN IN
THE ELECTRON ATTACHMENT MASS SPECTROGRAPH
ROZCZ. CHEM., 45, 1771 AND 1971, 1971
- 505 72 033 KANE JA
EVIDENCE FOR THE EXISTENCE OF NEGATIVE IONS IN THE D AND LOWER E REGIONS AT TWILIGHT
N72-18363. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 505 72 034 KEBABCIOGLU R MUELLER A RITTNER W
SCCC-MO CALCULATIONS ON THE IONS TCO4(-), REO4(-), AND RES4(-)
J. MOL. STRUCT., 9, 207, 1971
- 505 72 035 KHIRNYI YM KOCHENAS LN
OBTAINING A BEAM OF NEGATIVE POLARIZED DEUTERIUM IONS
PRIB. TEKH. EKSP., NO. 3, 25, 1972 IN RUSSIAN
- 505 72 036 KOBZEV GA
PHOTODISINTEGRATION OF A NEGATIVE NITROGEN ION IN PLASMA
OPT. SPEKTROSK., 31, 37, 1971 IN RUSSIAN
- 505 72 037 KRAUSS M NEUMANN D
ENERGY CURVES OF CO2(-)
CHEM. PHYS. LETT., 14, 26, 1972
- 505 72 038 LIFSHITZ C GRAJOWER R (1) WEISS M (2)
1. DISSOCIATIVE ELECTRON CAPTURE AND DISSOCIATIVE IONIZATION IN PERFLUOROCYCLOBUTANE. 2. EFFECT OF
THERMAL ENERGY ON IONIZATION EFFICIENCY CURVES OF NEGATIVE IONS FROM SF6
1. J. MASS SPECTRY, ION PHYS., 10, 25, 1972, 40 REFERENCES. 2. CHEM. PHYS. LETT., 15, 266, 1972
- 505 72 039 MACNEIL KAG THYNNE JCJ
NEGATIVE ION FORMATION AT LOW ELECTRON ENERGIES BY HEXAFLUORODIMETHYL PEROXIDE
J. MASS SPECTRY, ION PHYS., 9, 135, 1972, 20 REFERENCES
- 505 72 040 MARYANDVSKAYA LL MEDVEDEV YA
HEIGHT DEPENDENCE OF COEFFICIENT OF ATTACHMENT OF ELECTRONS IN AIR
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 239, 1971. TRANSLATED FROM GEOMAGN. AERON., 11, 290, 1971
- 505 72 041 MARCHETT MA KRAUSS M WEISS AW
SYMMETRY ADAPTED PAIR CORRELATIONS IN O AND O(-)
PHYS. REV., 5A, 2387, 1972. AD-746 379, 1971. COM-72-5071, 1972
- 505 72 042 MARMET P BOLDUC E QUEMENER JJ
AUTOIONIZING AND NEGATIVE ION STATES OF XE AND KR BELOW (2)P(1/2) LIMITS
J. CHEM. PHYS., 56, 3463, 1972
- 505 72 043 MCCORKLE DL CHRISTOPHOROU LG
LOW ENERGY ELECTRON ATTACHMENT TO MOLECULES AT HIGH DENSITIES
ORNL-TM-3839. THESIS. SUBMITTED BY D.L. MCCORKLE TO TENNESSEE UNIV., KNOXVILLE, JULY 1972. 87P.
NTIS. OAK RIDGE NATIONAL LAB., TENN.

- 505 72 044 MCFARLAN D DUNKIN DB FEHSENFELD FC
COLLISIONAL DETACHMENT STUDIES OF NO(-)
J. CHEM. PHYS., 56, 2358, 1972
- 505 72 045 MILLER W
ELECTRON ATTACHMENT AND COMPOUND FORMATION IN FLAMES. 5. NEGATIVE ION FORMATION IN FLAMES CONTAINING CHROMIUM AND POTASSIUM
AD-736 959. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 505 72 046 NAFF WT COMPTON RN COOPER CD
ELECTRON ATTACHMENT AND EXCITATION PROCESSES IN SELECTED CARBONYL COMPOUNDS
CAN. J. PHYS., 50, 1303, 1972
- 505 72 047 NARCISI RS BAILEY AD DELLA LUCCA L SHERMAN C THOMAS DM
MASS SPECTROMETRIC MEASUREMENTS OF NEGATIVE IONS IN THE D AND LOWER E REGIONS
J. ATMOS. TERREST. PHYS., 33, 1147, 1971. AD-739 058, 1971
- 505 72 048 NIKISHOV AI
STRIPPING OF ELECTRONS FROM NEGATIVE IONS IN A CONSTANT MAGNETIC FIELD
SOV. PHYS. JETP (ENGL. TRANS.), 33, NO. 5, XXX, 1971
- 505 72 049 NOVICK R
FINE STRUCTURE OF HELIUM NEGATIVE ION
PHYS. REV. LETT., 29, NO. 4, XXX, 1972
- 505 72 050 O'HANLON JF PENNEBAK WB
NEGATIVE ION EXTRACTION FROM PLASMA DURING ANODIZATION IN DC OXYGEN DISCHARGE
APPL. PHYS. LETT., 18, NO. 12, XXX, 1971
- 505 72 051 UNAK I RUWAKU J BRUHN L
NEGATIVE ION MASS SPECTROMETRY OF CLOSO-CARBORANES
AD-745 339. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 505 72 052 OPARI VA ILIN RN SERENKO IT
DIRECT PROOF OF EXISTENCE OF AN EXCITED NEGATIVE C(-) ION AND DETERMINATION OF BINDING ENERGY OF ELECTRON IN IT
JETP LETT. USSR (ENGL. TRANS.), 13, NO. 7, 249, 1971
- 505 72 053 PAQUET C MARCHAND P MARNET P
FORMATION DE O(-) DE NO PAR IMPACT ELECTRONIQUE
CAN. J. PHYS., 49, 2013, 1971. AD-734 590, 1971
- 505 72 054 PARR JE MORUZZI JL
ELECTRON ATTACHMENT IN WATER VAPOUR AND AMMONIA
J. PHYS. D, 5, 514, 1972
- 505 72 055 PISANIAS MN CHRISTOPHOROU LG CARTER JG
1. THRESHOLD ELECTRON EXCITATION AND COMPOUND NEGATIVE ION FORMATION IN POLYATOMIC MOLECULES. 2. COMPOUND NEGATIVE ION RESONANCES AND THRESHOLD ELECTRON EXCITATION SPECTRA OF QUINOLINE AND ISOQUINOLINE. 3. COMPOUND NEGATIVE ION RESONANCE STATES AND THRESHOLD ELECTRON EXCITATION SPECTRA OF N-HETEROCYCLIC MOLECULES PYRIDINE, PYRIDAZINE, PYRIMIDINE, PYRAZINE, AND SYM-TRIAZINE
1. ORNL-TM-3904. THESIS. SUBMITTED BY M.N. PISANIAS TO UNIV. OF TENNESSEE, KNOXVILLE, AUG. 1972. 145P. NTIS. OAK RIDGE NATIONAL LAB., TENN. 2. J. CHEM. PHYS. LETT., 13, 433, 1972. 3. 4TH ANNUAL MEETING OF APS DIVISION OF ELECTRON AND ATOMIC PHYSICS, STANFORD, CALIF., NOV. 29 - DEC. 1, 1972
- 505 72 056 RANKIN PC
NEGATIVE ION MASS SPECTRA OF SOME PESTICIDAL COMPOUNDS
J. ASSOC. OFF. ANAL. CHEM., 54, 1340, 1971
- 505 72 057 ROCHE AE GOODYEAR CC
ELECTRON TRANSFER IN COLLISIONS OF LOW ENERGY NEGATIVE OXYGEN IONS WITH O2
J. PHYS. D, 4, 1513, 1971
- 505 72 058 SCHULZ G
NEGATIVE ION FORMATION AND ENERGY LOSSES IN MOLECULAR GASES
AD-747 304. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 505 72 059 SMITH SJ
MOLECULAR NEGATIVE ION STRUCTURE
CON-72-5013. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 505 72 060 SPENCE D SCHULZ GJ
1. EFFECT OF ROTATIONAL EXCITATION ON DISSOCIATIVE ELECTRON ATTACHMENT IN H2. 2. THREE-BODY ATTACHMENT IN O2 USING ELECTRON BEAMS
J. CHEM. PHYS., 54, 5424, 1971 AND PHYS. REV., 5A, 724, 1972
- 505 72 061 STELMAN D MORUZZI JL PHELPS AV
LOW ENERGY ELECTRON ATTACHMENT TO OZONE USING SWARM TECHNIQUES
J. CHEM. PHYS., 56, 4183, 1972
- 505 72 062 TAYLOR HS THOMAS LD
SHORT LIVED RESONANT STATE OF H(-2)
PHYS. REV. LETT., 28, 1091, 1972
- 505 72 063 THOMAS L GONDHALE PM BOWMAN MR
IONOSPHERE-PHOTODETACHMENT OF ELECTRONS FROM NEGATIVE IONS IN LOWER D REGION
NATURE, 238, 85, 1972
- 505 72 064 THYNNE JCJ MACNEIL KAG (1)
1. NEGATIVE ION FORMATION BY ETHYLENE AND 1,1-DIFLUOROETHYLENE. 2. NEGATIVE ION STUDIES USING A TIME-OF-FLIGHT MASS SPECTROMETER (REVIEW)
1. J. PHYS. CHEM., 75, 2584, 1971. 2. CHAPTER 2 OF DYNAMIC MASS SPECTROMETRY, VOLUME 3, PRICE, D. (ED.), HEYDEN AND SONS LTD., LONDON, 1972
- 505 72 065 WALTON DS PEART B DOLOER KY
MEASUREMENT OF CROSS SECTIONS FOR DETACHMENT FROM H(-) BY A METHOD EMPLOYING INCLINED ION AND ELECTRON BEAMS
J. PHYS. B, 4, 1343, 1971

- 505 72 066 WENTWORTH WE CHEN E FREEMAN R
THERMAL ELECTRON ATTACHMENT TO NITROUS OXIDE
J. CHEM. PHYS., 55, 2075, 1971
- 505 72 067 YAMAGUCHI R KEBARLE P
SOLVATION OF NEGATIVE IONS BY PROTIC AND APROTIC SOLVENTS. GAS PHASE SOLVATION OF HALIDE IONS BY
ACETONITRILE AND WATER MOLECULES
JACS, 94, 2940, 1972
- 505 72 068 ZANDBERG EY PALEEV VI
MULTIATON NEGATIVE IONS OF CARBON AND ITS COMPOUNDS
ZH. TEKH. FIZ., 42, 851, 1972 IN RUSSIAN
- 517 72 001 ADAM G
1. TOPOPHOTODIMERIZATION OF A GIBBERELLIN DERIVATIVE. 2. SYNTHESSE, STEREOCHEMIE UND PHOTOCHEMIE VON
3BETA,16ALPHA,20-TRIHYDROXYLIERTEN-22,26-EPIMINO-SALPHA-CHOLESTAN DERIVATEN
TETRAEDRON LTRS, P1357, 1971 AND TETRAEDRON, 27, 2181, 1971
- 517 72 002 ADAMS WR TRECKER DJ
DYE-SENSITIZED PHOTOOXIDATION OF CYCLOPENTADIENE
TETRAEDRON, 27, 2631, 1971
- 517 72 003 AGOSTA WC SMITH AB
PHOTOCHEMICAL REACTIONS OF SIMPLE CYCLOPENTENONES
JACS, 93, 5513, 1971
- 517 72 004 ANASTASSIOU AG YAKALI E (1) HAMMER RB (2)
1. PHOTOCHEMICAL BEHAVIOR OF THE STEREOISOMERIC 9-CHLORO-CIS-BICYCLO(6,1,0)NONA-2,4,6-TRIENES.
SYNTHESIS OF 9-CHLORO-CIS,CIS,CIS,CIS-1,3,5,7-CYCLONONATETRAENE. 2. PHOTOCHEMICAL BEHAVIOR OF
CERTAIN N-SUBSTITUTED DIPHENYLAZIRIDINES. THE QUESTION OF ISOMERIZATION VS FRAGMENTATION
JACS, 93, 3803, 1971 AND 94, 303, 1972
- 517 72 005 ANBAR M
STUDY OF MECHANISMS CONTROLLING THE ULTRAVIOLET PHOTOCHEMISTRY OF ASSOCIATED AND POLYMERIC SYSTEMS
N71-36520. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 517 72 006 ARAKI S SUZUKI S KITANO M
VAPOR PHASE PHOTOLYSIS OF AROMATIC CARBONYL COMPOUNDS AND AROMATIC CARBOXYLIC ACID ESTERS
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., P469, 1972
- 517 72 007 AUSLOOS PJ LIAS SG
PHOTOCHEMISTRY IN FAR ULTRAVIOLET
ANNU. REV. PHYS. CHEM., 22, XXX, 1971
- 517 72 008 BAER TA GUTSCHE CD
CHEMISTRY OF BIVALENT CARBON INTERMEDIATES. 6. PHOTOLYSIS OF 2-N-BUTYLPHENYLDIAZOMETHANE
JACS, 93, 5180, 1971
- 517 72 009 BAGGIOLINI E
PHOTOCHEMISCHE REAKTIONEN. PHOTOFRAGMENTIERUNG VON O-ACETYLJERVIN
HELV. CHIM. ACTA, 54, 429, 1971
- 517 72 010 BANKS RE HASZELDINE RN MYERSCOU T
NITROXIDE CHEMISTRY. 3. PHOTOLYSIS OF BISTRIFLUOROMETHYL NITROXIDE AND SOME REACTIONS OF MAJOR
PRODUCT, PERF
J. CHEM. SOC. C, ORG., P1449, 1972
- 517 72 011 BARLTROP JA CARLESS HAJ
ORGANIC PHOTOCHEMISTRY. 11. PHOTOCYCLOADDITION OF BENZOPHENONE TO CONJUGATED DIENES. 13.
PHOTOCYCLOADDITION OF ALIPHATIC KETONES TO ALPHA,BETA-UNSATURATED NITRILES
JACS, 93, 4794, 1971 AND 94, 1951, 1972
- 517 72 012 BARTHOLOMEW RF DAVIDSON RS
PHOTOSENSITISED OXIDATION OF AMINES. 1. USE OF BENZOPHENONE AS A SENSITISER
J. CHEM. SOC. C, 2342, 1971
- 517 72 013 BAUER D
PHOTOCHEMISCHE REAKTIONEN. PHOTOISOMERISIERUNG VON ALPHA,BETA-UNGESATTIGTEN GAMMA,
DELTA-EPOXYKETONEN: 9ALPHA,10ALPHA AND 9BETA,10BETA-OXIDO-3-OXO-17BETA-ACETOXY-DELTA4-OSTREN
HELV. CHIM. ACTA, 55, 852, 1972
- 517 72 014 BAXTER I MENSCH IA
PHOTOLYSIS OF TERT-BUTYL SUBSTITUTED PARA-BENZOQUINONE MONO AND DIIMINE DERIVATIVES
J. CHEM. SOC. C, P2604, 1970
- 517 72 015 BERGMARK WR
MECHANISM OF PHOTOENOLIZATION: O-METHYLVALEROPHENONE
TETRAEDRON LTRS, P2259, 1971
- 517 72 016 BERGSTRO DE LEONARD NJ
PHOTOREACTION OF 4-THIOURACIL WITH CYTOSINE. RELATION TO PHOTOREACTIONS IN ESCHERICHIA COLI TRANSFER
RIBONUCLEIC ACIDS
BIOCHEM., 11, 1, 1972
- 517 72 017 BERWICK MA
COMPARATIVE STUDY OF PHOTOLYTIC DECOMPOSITIONS OF 2-AZIDOACETOPHENONE AND 3-METHYLANTHRANIL
JACS, 93, 5780, 1971
- 517 72 018 BOWMAN RM
PHOTOADDITIONS OF 2-CYCLOHEXENONE DERIVATIVES TO CYCLOPENTENE. AN INVESTIGATION OF STEREOCHEMISTRY
J. ORG. CHEM., 37, 2084, 1972
- 517 72 019 BRAINARD R MORRISON H
PHOTOCHEMISTRY OF BICHROMOPHORIC MOLECULES. NORRISH TYPE II PHOTODECOMPOSITION OF 2-ETHOXYETHYL
PHENYLACETATE
JACS, 93, 2685, 1971
- 517 72 020 BRUCE JM CHAUDHRY A
LIGHT INDUCED AND RELATED REACTIONS OF QUINONES. 7. CLEAVAGE AND ISOMERISATION OF SOME (1-
HYDROXYALKYL)-1,4-BENZOQUINONES. 8. SOME (2-HYDROXYALKYL), PHENETHYL, (2-ETHOXYCARBONYLETHYL), AND
STYRYL-1,4-BENZOQUINONES. 9. T-BUTYL-1,4-BENZOQUINONES
J. CHEM. SOC. C, P2244 AND P3749, 1971 AND J. CHEM. SOC., PERKIN I, P372, 1972

- 517 72 021 BURR JG PARK EH CHAN A
NATURE OF REACTIVE SPECIES IN PHOTOHYDRATION OF URACIL AND CYTOSINE DERIVATIVES
JACS, 94, 5866, 1972
- 517 72 022 CAIRNS WL METZLER DE
PHOTOCHEMICAL DEGRADATION OF FLAVINS. 6. A NEW PHOTOPRODUCT AND ITS USE IN STUDYING THE PHOTOLYTIC MECHANISM
JACS, 93, 2772, 1971
- 517 72 023 CAMAGGI G GOZZO F
PHOTOCHEMICAL ISOMERISATION DERIVATIVES OF DECAFLUOROCYCLOHEXENE AND THEIR REACTIONS
J. CHEM. SOC. C, P925, 1971
- 517 72 024 CANTRELL TS
1. PHOTOCHEMICAL TRANSFORMATIONS OF SOME BETA-SUBSTITUTED ENONES. 2. PHOTOCHEMICAL 6 + 2 CYCLOADDITIONS OF TROPONE
TETRAHEDRON, 27, 1227, 1971 AND JACS, 93, 2540, 1971
- 517 72 025 CARESS EA ROSENBERG IE
PHOTOCHEMISTRY OF ARYL ALKYL CARBONATES. 1. CHLOROPHENYL ETHYL CARBONATES
J. ORG. CHEM., 36, 769, 1971
- 517 72 026 CARSON SD ROSENBERG HM
PHOTOCHEMISTRY OF BENZOPHENONE HYDRAZONE
J. ORG. CHEM., 35, 2734, 1970
- 517 72 027 CASTELLANO A LABLACHE-COMBIER A
ETUDES PHOTOCHIMIQUES. 7. REACTIONS DE PHOTOSUBSTITUTION DE LA QUINOLEINE ET DE L'ISOQUINOLEINE EN MILIEU NEUTRE. 11. REACTION DE PHOTOSUBSTITUTION DE LA QUINOXALINE EN MILIEU NEUTRE
TETRAHEDRON, 27, 2303, 1971 AND 28, 3511, 1972
- 517 72 028 CERNAN J HAIS IM
ESTERS OF 6,7-DIMETHYL-9-HYDROXYMETHYLISOALLOXAZINE AS PHOTODEGRADATION PRODUCTS OF RIBOFLAVIN AND FORMYLMETHYL FLAVIN IN MEDIA CONTAINING FATTY ACIDS
JACS, 94, 1741, 1972
- 517 72 029 CHAN SC INEL Y TSCHUIKO RO
PRIMARY PROCESSES IN VACUUM ULTRAVIOLET PHOTOLYSIS OF ETHYL FLUORIDE AT 147 NM
CAN. J. CHEM., 50, 1443, 1972
- 517 72 030 CHAPMAN UL
NONOXIDATIVE PHOTOCYCLOIZATION OF N-ARYL ENAMINES. A FACILE SYNTHETIC ENTRY TO TRANS-HEXAHYDROCARBAZOLES
JACS, 93, 2918, 1971
- 517 72 031 CHARLTON JL
PHOTOCHEMICAL SYNTHESIS. ADDITION OF AROMATIC NITRO COMPOUNDS TO ALKENES
JACS, 93, 2463, 1971
- 517 72 032 CHUBACHI M HAMADA M
PHOTOOXIDATIVE RING CONTRACTION OF DEHYDROROTENONE TO COUMARON-CHROMONE
TETRAHEDRON LTRS, P3537, 1971
- 517 72 033 COLLINS PM GUPTA P (2)
PHOTOCHEMISTRY OF KEONES DERIVED FROM CARBOHYDRATES. 1. TYPE I CLEAVAGE OF A PYRANSID-4-ULOSE. 2. EVIDENCE FOR A BIRADICAL MECHANISM IN TYPE I RING CONTRACTION OF PYRANSID-4-ULOSES TO FURANSIDES
J. CHEM. SOC. C, P1960 AND P1965, 1971
- 517 72 034 CONIA JM
THERMOLYSE ET PHOTOLYSE DES CETONES NON SATURES. 19. SUR L'OBTENTION ET LA STEREOCHIMIE DE QUELQUES CETONES DE LA FAMILLE DE L'ACORANE FORMEES DANS LA THERMOCYCLOISATION DE LA (+)(ISOPROPENYL-1-PENTENE-4-YL)-2-METHYL-5-CYCLOHEXANONE
TETRAHEDRON, 27, 2481, 1971
- 517 72 035 CRANDALL JK
PHOTOCHEMISTRY OF BICYCLO[6.1.0]NONANONES
J. ORG. CHEM., 36, 1428, 1971
- 517 72 036 DALTON JC DAVES K TURRO NJ
TYPE I AND II PHOTOCHEMICAL REACTIONS OF SOME FIVE AND SIX MEMBERED CYCLOALKANONES
JACS, 93, 7213, 1971
- 517 72 037 DARLAGE LJ
PHOTOCHEMICAL REARRANGEMENTS OF 1,2-BENZISOXAZOLINONES
J. ORG. CHEM., 36, 1088, 1971
- 517 72 038 DARLING TR TURRO NJ
PHOTOCHEMISTRY OF ALPHA-CYCLOPROPOXYACETOPHENONES. UNEXPECTED INTERNALLY SENSITIZED CIS-TRANS ISOMERIZATION
JACS, 94, 4366, 1972
- 517 72 039 DAUBEN WG RABINOWI J (2) VIETMEY ND (2) SCHUTTE L (3) DEVINY EJ (3)
1. PHOTOCHEMISTRY OF 4-METHYL-4-PHENYL-2-CYCLOHEXENONE. EFFECT OF SOLVENT ON EXCITED STATE. 2. PHOTOEQUILIBRIA BETWEEN 1,3-CYCLOHEXA DIENES AND 1,3,5-HEXATRIENES. PHOTOCHEMISTRY OF 3-ALKYL-6,6,9,9-TETRAMETHYL-DELTA(3,5(10))-HEXALINS. 3. PHOTOREDUCTION OF CONJUGATED CYCLOPROPYL KETONES IN ISOPROPYL ALCOHOL
JACS, 93, 3674, 1971, JACS, 94, 4285, 1972, AND J. ORG. CHEM., 37, 2047, 1972
- 517 72 040 DAVISON RS STEINFR PR
PHOTOSENSITIZED DECARBOXYLATION OF CARBOXYLIC ACIDS BY BENZOPHENONE AND QUINONES
J. CHEM. SOC. C, P1682, 1971
- 517 72 041 DAVIES LS JONES G
PHOTOCHEMICAL CONVERSION OF SOME HETEROCYCLIC ACRALDEHYDES INTO DERIVATIVES OF PROPIONIC ACID
J. CHEM. SOC. C, P2572, 1971
- 517 72 042 DOPP D
1. PHOTOCHEMIE AROMATISCHER NITROVERBINDUNGEN. V. PRODUKTE DER PHOTOLYSE VON KRISTALLINEM 2-NITRO-1,4-DI-TERT.-BUTYLBENZOL. 2. LICHTINDUZIERTER INTRAMOLEKULARER RINGSCHLUSS VON O-NITRO-TERT.-BUTYLBENZOL. 3. UBER DEN MECHANISMUS DER LICHTINDUZIERTEN BILDUNG VON 1-HYDROXY-3,3-DIMETHYL-3H-INDOLINEN (2) AUS O-NITRO-TERT.-BUTYLBENZOL
TETRAHEDRON LTRS, P2757, 1971, CHEM. BER., 104, 1035, 1971, AND CHEM. BER., 104, 1043, 1971

- 517 72 043 DOUGHERTY RC
PERTURBATION MOLECULAR ORBITAL TREATMENT OF PHOTOCHEMICAL REACTIVITY. NONCONSERVATION OF ORBITAL SYMMETRY IN PHOTOCHEMICAL PERICYCLIC REACTIONS
JACS. 93. 7187. 1971
- 517 72 044 DZANTIEV BG SHIMCHUK OS SHISHKOV AV
PHOTOLYSIS OF HYDROGEN SULFIDE. EFFECT OF ADDED INERT GASES
KHIM. VYS. ENERG., 4. NO. 4. 361. 1970 IN RUSSIAN. FULL COPY OF THIS PAPER IS HELD BY DTIC
- 517 72 045 EATON DF
MULTIPLE MECHANISMS IN THERMAL AND PHOTOCHEMICAL DECOMPOSITION OF 2,3-DIAZABICYCLO(3.1.0)HEX-2-ENES
JACS. 94. 1351. 1972
- 517 72 046 EBERBACH W
PHOTOCHEMISCHE UMWANDLUNGEN. 45. DIE 3SIGMA TO 3PI ROUTE ZU OXEPIN DERIVATEN. 5-C BORNADIENE
HELV. CHIM. ACTA. 54. 2579. 1971
- 517 72 047 EGE G
PHOTOLYSE VON 8-OXO-8H-CHINAZOLINO(3,2-C)-1,2,3-BENZOTRIAZIN CARSTELLUNG NEUER DIAZOCINE
CHEM. BER., 105. 2898. 1972
- 517 72 048 ELAD D
SOLUTION PHOTODIMERIZATION OF 1,3-DIMETHYLURACIL
J. CHEM. SOC. C. P2053. 1971
- 517 72 049 ENGEL PS SCHEXNAYDER MA
PHOTOCHEMISTRY OF AN ACYCLIC BIS-BETA, GAMMA UNSATURATED KETONE
JACS. 94. 4357. 1972
- 517 72 050 EPIOTOS ND
ELECTROCYCLIC REACTIONS. 4. IMPORTANCE OF DONOR-ACCEPTOR INTERACTIONS IN PHOTOCYCLOADDITIONS INVOLVING CARBONYL GROUP
JACS. 94. 1949. 1972
- 517 72 051 FEDOROV VE SAZONOVA VA NESMEYAN AN
ON MECHANISM OF PHOTOLYSIS OF METHIOIDE ALPHA-PYRIDYLFERROCENE
DOKL. AKADE. NAUK SSSR. 202. 613. 1972 IN RUSSIAN
- 517 72 052 FERREE W
PHOTOCHEMISTRY OF BICHROMOPHORIC MOLECULES. INTRAMOLECULAR CYCLOADDITION AND CIS-TRANS ISOMERIZATION OF 6-PHENYL-2-HEXENE IN SOLUTION
JACS. 93. 5502. 1971
- 517 72 053 FINUCANE BW THOMSON JB
TRITERPENOIDS. 7. PHOTOISOMERISATION OF 11-OXO-12-ENES
J. CHEM. SOC. C. P1569. 1972
- 517 72 054 FOX JE
PHOTOXYGENATION OF LANDOSTERYL ACETATE
J. CHEM. SOC., PERKIN TRANS. I. P799. 1972
- 517 72 055 FRANICH RA
PHOTOCHEMICAL INTERCONVERSION OF SOME DIAZO-AMIDES AND DIAZIRINE-CARBOXYANIDES
J. CHEM. SOC., PERKIN TRANS. I. P2034. 1972
- 517 72 056 FRANKEL EL SOKOLIK IA

INFLUENCE OF MAGNETIC FIELD ON RATE OF PHOTOOXIDATION OF AROMATIC HYDROCARBONS
Zh. EKSP. TEOR. FIZ., 14. NO. 11. 401. 1971 IN RUSSIAN
- 517 72 057 FUCHS B
PHOTOCHEMICAL TRANSFORMATIONS OF SUBSTITUTED CYCLOPENTADIENONE DIMERS
JACS. 93. 2544. 1971
- 517 72 058 FUJITA S HAYASHI Y NOZAKI H
PHOTOLYSIS OF 1-PHENYLBICYCLO(N.1.0)ALKANES IN ACIDIC MEDIA
BULL. CHEM. SOC. JAPAN. 44. 1970. 1971
- 517 72 059 GANTER C MOSER JF
PHOTOCHEMICAL REACTIONS. PHOTOCHEMISTRY OF SATURATED ALIPHATIC AND CYCLIC BETA-KETO SULFOXIDES (ALPHA-S) AND ALPHA-CLEAVAGE: A NEW CASE OF PHOTOSTEREOMUTATION
HELV. CHIM. ACTA. 54. 2228. 1971
- 517 72 060 GEDANKEN A RAZ B
NEW LIGHT SOURCE IN VACUUM ULTRAVIOLET SPECTRAL REGION
VACUUM. 21. 385. 1971
- 517 72 061 GEORGE RA ROBERTS I WILSON EG
CRYOSTATS FOR VACUUM ULTRAVIOLET SPECTROSCOPY
J. PHYS. E. 5. 35. 1972
- 517 72 062 GIBSON TW ERMAN WF
PHOTOCHEMISTRY OF SUBSTITUTED 1,5-HEXADIEN-3-ONES
J. ORG. CHEM., 37. 1148. 1972
- 517 72 063 GILBERT JR
MASS SPECTROMETRIC STUDY OF THE PHOTOLYSIS OF CH3I + NO MIXTURES
TRANS. FARADAY SOC., 66. 2837. 1970
- 517 72 064 GILPIN R SCHIFF HI WELGE KH
PHOTODISSOCIATION OF O3 IN THE HARTLEY BAND. REACTION OF O(SINGLET O) AND O2(SINGLET SIGMA(G)(+)) WITH O3 AND O2
AD-733 002. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 517 72 065 GIVENS RS
MECHANISTIC STUDIES IN ORGANIC PHOTOCHEMISTRY. 3. PHOTOCHEMISTRY OF BICYCLO(2.2.2)OCTENONE AND BENZOBICYCLO(2.2.2)OCTADIENONE
JACS. 93. 3957. 1971

- 517 72 066 GOLLNICK K HAISCH D SCHADE G
IS CONCERNED 'ENE' MECHANISM OF (1)DELTA(6) EXCITED OXYGEN MOLECULE REACTIONS WITH OLEFINS REALLY
ELIMINATED: PHOTOOXYGENATION AND ELECTROLYSIS IN PRESENCE OF AZIDE IONS
JACS, 94, 1747, 1972
- 517 72 067 GORDON MP
PHOTOBIOLGY AND PHOTOCHEMISTRY OF RIBONUCLEIC ACIDS
RLO-2225-T-15-10. COMPREHENSIVE THREE YEAR REPORT. WASHINGTON UNIV., SEATTLE, 1970. 18P. NTIS
- 517 72 068 GOTTARDOT H
1. PHOTOCYCLOADDITIONEN VON THIOARYLKETONEN AN 2,4-DIMETHYL-2,3 UND 1,3-PENTADIEN. 2.
PHOTOCYCLOADDITIONEN DER THIONE AN 1,2 UND 1,3-DIENE UND AN ELEKTRONENARME OLEFINE
TETRAHEDRON LETRS, P2345, 1971 AND CHEM. BER., 105, 2008, 1972
- 517 72 069 GOWENLOC BG JOHNSON CA
STUDIES IN VACUUM ULTRAVIOLET PHOTOCHEMISTRY. 1. 2,2,3,3-TETRAMETHYLBUTANE
J. CHEM. SOC., PERKIN TRANS., 11, P1150, 1972
- 517 72 070 GRAMS GW
DYE SENSITIZED PHOTOOXIDATION OF ALPHA-TOCOPHEROL
JACS, 94, 866, 1972
- 517 72 071 GREENWAL J HALMANN M
PHOTOCHEMISTRY OF PHOSPHORUS COMPOUNDS. 7. FAR ULTRAVIOLET SPECTROSCOPY AND PHOTOCHEMISTRY OF
GLYCEROL 1-PHOSPHATE AND O
J. CHEM. SOC., PERKIN TRANS., 11, P1095, 1972
- 517 72 072 GREINER NR
PHOTOOXIDATION OF OLEFINS IN AIR SATURATED WITH HYDROGEN PEROXIDE VAPOR
LA-4837, LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, FEB. 1972. 4P. NTIS
- 517 72 073 GRIFFIN GW HANMADE A
NEW PRECURSORS FOR ARYL CARBENES. PHOTOCYCLOELIMINATION REACTIONS OF CYCLIC SULFITES
J. ORG. CHEM., 37, 2589, 1972
- 517 72 074 GULL P
PHOTOCHEMISCHE REAKTIONEN. UV-BESTRAHLUNG VON 11-OXO-STEROIDEN IV NEUARTIGE PHOTOISOMERISIERUNG VON
2,20-DIATHYLENDIOXY-11-OXO-DELTA14-SALPHA-PREGNEN
HELV. CHIM. ACTA, 54, 2158, 1971
- 517 72 075 GURVILM IA
PHOTOCHEMICAL TRANSFORMATIONS OF GIBBERELLIN-A3 DERIVATIVES. AROMATIZATION OF RING A
TETRAHEDRON, 27, 5901, 1971
- 517 72 076 HAND CW
1. EFFICIENT LIGHT COLLECTOR. 2. COMMENT UP 'AN EFFICIENT LIGHT COLLECTOR'
REV. SCI. INSTRUM., 43, 171 AND 171, 1972
- 517 72 077 HAPP JW MCCALL MT WHITTEN DG
PHOTOADDITION REACTIONS OF SOME ELECTRON-DEFICIENT ACYCLIC OLEFINS WITH NUCLEOPHILES. STUDIES ON THE
SCOPE AND MECHANISM
JACS, 93, 5496, 1971
- 517 72 078 HARADA N SUZUKI S UDA H
PHOTOCHEMICAL OXIDATION OF 6,6-DISUBSTITUTED FULVENES
JACS, 94, 1777, 1972
- 517 72 079 HARKER AB
REACTION KINETICS OF THE PHOTOLYSIS OF NO2, AND THE SPECTRA AND REACTION KINETICS OF THE FREE
RADICALS IN THE PHOTOLYSIS OF THE CL2-O2-CO SYSTEM
LBL-1114. THESIS. CALIFORNIA UNIV., BERKELEY, SEPT. 1972. 204P. NTIS. LAWRENCE BERKELEY LAB.
- 517 72 080 HAWKINS EGE
REACTION OF ORGANIC PEROXIDES. 18. PHOTOOXIDATION OF CYCLOHEXYLAMINE AND DICYCLOHEXYLAMINE
J. CHEM. SOC., PERKIN TRANS., 1, P13, 1972
- 517 72 081 HAYWARD RJ LEZNOFF CC (2)
PHOTOCYCLIZATION REACTIONS OF ARYL POLYENES. 2. PHOTOCYCLIZATION OF 1-ARYL-4-PHENYL-1,3-BUTADIENES.
6. PHOTOCYCLIZATION OF 1,4-DIARYL-1,3-BUTADIENES
TETRAHEDRON, 27, 2085, 1971 AND 28, 439, 1972
- 517 72 082 HEANEY H
ARYNE CHEMISTRY. 27. PHOTOLYSIS OF 1,2-DIISODOTETRAFLUOROBENZENE IN THE PRESENCE OF BENZENE
J. CHEM. SOC. C. NO. 18, 2569, 1970
- 517 72 083 HELLNER L MASANET J VERMEIL C
REACTIONS OF HYDROGEN AND DEUTERIUM ATOMS FORMED IN THE PHOTOLYSIS OF METHANE AND PERDEUTERATED
METHANE AT 123.6 NM
J. CHEM. PHYS., 55, 1022, 1971
- 517 72 084 HEY DM
INTERNUCLEAR CYCLISATION. 30. PHOTOLYSIS OF 2-iodo-2', 3', AND 4'-METHOXY-N-ALKYLBENZANILIDES IN
BENZENE
J. CHEM. SOC., PERKIN TRANS., 1, P1150, 1972
- 517 72 085 HILDUM JS COOPER JC
A BRIGHT CONTINUUM SOURCE FOR THE VACUUM ULTRAVIOLET
AD-746 582, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
OCT. 1971
- 517 72 086 HILL J TOWNEND J
LIGHT INDUCED REACTIONS OF ALPHA-N-ALKYLANILINOKETONES: FORMATION OF DIINDOLYLMETHANES
J. CHEM. SOC., PERKIN TRANS., 1, P1210, 1972
- 517 72 087 HILL KL DOEPKER RD
VACUUM ULTRAVIOLET PHOTOLYSIS OF THE C4H6 ISOMERS. 4. 1-BUTYNE. 5. METHYLENECYCLOPROPANE
J. PHYS. CHEM., 76, 1112 AND 3153, 1972
- 517 72 088 HIRAYAMA S OSUGI J
PHOTOCHEMICAL REACTIONS OF CARBONYL DERIVATIVES OF ANTHRACENE AND PYRENE
J. CHEM. SOC. JAPAN, PURE CHEM. SECT., 92, 1081, 1971

- 517 72 089 HIYAMA T FUJITA S NOZAKI H
PHOTOINDUCED TRANSANNULAR REACTION OF 4,5-OCTAMETHYLENE-1,3-DIOXOLEN-2-ONE
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971
- 517 72 090 HOKK KN NORTINGTON DJ
1. PHOTOCHEMISTRY OF CYCLOPENTADIENONE DIMERS. 2. SOLVENT PHOTOCHEMICAL DIMERIZATION AND (PI 2(A) + SIGMA 2(A)) REARRANGEMENT OF A BRIDGED 3,5-CYCLOHEPTADIENONE
TETRAHEDRON LTRS, P303, 1972 AND JACS, 94, 1387, 1972
- 517 72 091 HURT CR FILIPESCU N
PHOTOCYCLIZATION OF DI(2-PYRIDYL)KETONE AND 2-BENZOYLPIRIDINE IN AQUEOUS SOLUTION
JACS, 94, 3649, 1972
- 517 72 092 HYATT JA
PHOTOCHEMICAL CONVERSION OF PRIMARY AND SECONDARY AMINES TO CARBONYL COMPOUNDS
J. ORG. CHEM., 37, 1254, 1972
- 517 72 093 ISHIBE N
PHOTOCHEMICAL CONVERSION OF 2,6-BIS(ALKYLTHIO)-3,5-DIPHENYL-4H-THIOPYRAN-4-ONES INTO 3,4-BIS(ALKYLTHIO)-2,5-DIPHENYLCYCLOPENTADIENONES
J. CHEM. SOC., PERKIN TRANS., I, P1203, 1972
- 517 72 094 IZAWA Y ISHIMURA T OGATA Y
PHOTOCHEMICAL ETHOXYCARBONYLMETHYLATION OF BENZENE WITH ETHYL HALOACETATE IN PRESENCE OF METALLIC HALIDES
TETRAHEDRON, 28, 211, 1972
- 517 72 095 JULIENNE PS NEUMANN D KRAUSS M
CALCULATION OF THE TEMPERATURE DEPENDENCE FOR ABSORPTION IN CO₂ IN THE 1750 - 1200 Å REGION
COM-72-5020, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 517 72 096 KAGAN J
PHOTOCHEMISTRY OF PARTHENIN AND CORONOPILIN
TETRAHEDRON LTRS, P1849, 1971
- 517 72 097 KAMETANI T
1. TOTAL SYNTHESIS OF O-METHYLANDROCMBINE BY A PHOTO-PSCHORR REACTION AND SYNTHESIS OF THALIFOLINE. 2. STUDIES ON TOTAL PHOTOLYTIC SYNTHESIS OF ALKALOIDS. V. TOTAL SYNTHESIS OF FLAVINANTINE, AMURINE, BRACEDLINE, AND DOMESTICINE BY PHOTOLYSIS OF THE APPROPRIATE 1-(2-BROMOBENZYL)ISOQUINOLINES. 3. SYNTHESIS OF A PROERYTHRINADIENONE BY PHENOLIC OXIDATION AND A MORPHINANDIENONE SYSTEM BY A PHOTO-PSCHORR REACTION
J. CHEM. SOC. C, P1792, P2446, AND P3315, 1971
- 517 72 098 KAMETANI T KOHNO T (2) FUKUMOTO K (3) MCNDA T (4) IHARA M (4)
1. SYNTHESIS OF MORPHINANDIENONE AND APORPHINE BY PHOTOLYSIS. 2. TOTAL SYNTHESIS OF (+OR-)-EPICRININE BY PHOTOLYSIS. 3. PHOTOCHEMICAL SYNTHESIS OF ISOQUINOLINE ALKALOIDS. 4. PHOTOLYTIC SYNTHESIS OF PROERYTHRINADIENONES
CHEM. IND. (LONDON), P1566, 1970, TETRAHEDRON LTRS, P3155, 1971, ACCOUNTS CHEM. RES., 5, NO. 6, 212, 1972, AND CHEM. IND. (LONDON), 5, 119, 1972
- 517 72 099 KAMETANI T SHIBUYA S (2,4) NAKANO T (2) KOIZUMI M (3) SATOH Y (4)
STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. (1)CD. TOTAL SYNTHESIS OF NO(10)-DIMETHYLMERNOVINE AND KREYSIGINE BY PHOTOLYSIS OF DIAZOTIZED ISOQUINOLINES. (2)CDXLIII. ALTERNATIVE SYNTHESIS OF (+OR-)-GLAZIOVINE BY PHOTOLYSIS AND PHENOLIC OXIDATION. (3)CDXLVI. TOTAL PHOTOLYTIC SYNTHESIS OF (+OR-)-ANDROCMBINE AND (+OR-)-MULTIFLORAMINE. (4)CDLI. ALTERNATIVE
PHOTOLYTIC TOTAL SYNTHESIS OF O-METHYLANDROCMBINE AND KREYSIGINE
J. CHEM. SOC. C, P1923, 1971, J. CHEM. SOC. C, P3818, 1971, J. CHEM. SOC. C, P3976, 1971, AND J. ORG. CHEM., 36, NO. 24, XXX, 1971
- 517 72 100 KAMETANI T KOIZUMI M (1) SEINO C (1) FUKUMOTO K (2) SHIBUYA S (2)
YAMAKI K (3) TERUI T (3) KOHNO T (4,5) CHARUBAL R (4,5)
STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. (1)CDLVII. SYNTHESIS OF O-BENZYLHOMOSALUTARIDINE BY PHOTOLYSIS OF DIAZOTIZED 1-(2-AMINOPHENETHYL)-1,2,3,4-TETRAHYDROISOQUINOLINE. (2)CDLXII. TOTAL PHOTOLYTIC SYNTHESIS OF (+OR-)-APORPHINE. (3)CDLXVI. SYNTHESIS OF NARWEDINE-TYPE ENONES BY PHOTOCHEMICAL CYCLIZATION. (4)CDLXVII. PHOTOLYTIC SYNTHESIS OF KREYSIGINE-TYPE COMPOUNDS. (5)CDLXXII. TOTAL PHOTOLYTIC SYNTHESIS OF (+OR-)-EPICRININE
CHEM. PHARM. BULL. (TOKYO), 20, 295, 1972, J. CHEM. SOC., PERKIN TRANS., I, P1435, 1972, J. CHEM. SOC., PERKIN TRANS., I, P1513, 1972, TETRAHEDRON, 28, 3227, 1972, AND CHEM. PHARM. BULL. (TOKYO), 20, 1488, 1972
- 517 72 101 KAPLAN L
PHOTOOXIDATION OF AQUEOUS BENZENE. 1. IDENTIFICATION OF THE PRODUCT AS 1,3-CYCLOPENTADIENE-1-CARBOXALDEHYDE
JACS, 93, 3819, 1971
- 517 72 102 KATO T MAEDA H TSUNAKAW M
SYNTHESIS AND PHOTOREACTION OF 7,11-DIMETHYL-1,6,10-DODECATRIEN-3-ONE
BULL. CHEM. SOC. JAPAN, 44, 3437, 1971
- 517 72 103 KELLOGG RM
PHOTOCHEMISTRY OF 2,5-DIHYDROTHIOPHENES. A FACILE STEREOSSELECTIVE RING CONTRACTION
JACS, 93, 2344, 1971
- 517 72 104 KITAGAWA I
PHOTOCHEMICAL TRANSFORMATION LEADING TO EUPTLEOGENIN. 1. INTRODUCTION OF EPOXY-LACTONE SYSTEM. 2. ATTEMPT TO INTRODUCE TERMINAL METHYLENE MOIETY AND TRANSFORMATION OF SPERGULAGENIC ACID TO EUPTLEOGENIN
TETRAHEDRON, 28, 907 AND 923, 1972
- 517 72 105 KITaura Y MATSUURA T
PHOTOINDUCED REACTIONS. 48. STERIC AND SUBSTITUENT EFFECTS ON PHOTOREACTIONS OF 2,4,6-TRIALKYLPHENYL KETONES
TETRAHEDRON, 27, 1597, 1971
- 517 72 106 KNOTT PA MELLOR JM
PHOTOCHEMICAL REARRANGEMENT OF BICYCLO(3,3,1)NONA-3,7-DIENE-2,6-DIONES
J. CHEM. SOC., PERKIN TRANS., I, P1030, 1972

- 517 72 107 KOBAYASHI T KURONO M SATO H
NATURE OF PHOTOCHEMICALLY INDUCED TRANSANNULAR HYDROGEN ABSTRACTIONS OF TAXININES
JACS, 94, 2863, 1972
- 517 72 108 KOCH W SAITO T YOSHIDA Z
PHOTODIMERIZATION OF HALOGENATED ANTHRONE DERIVATIVES
TETRAHEDRON, 28, 3191, 1972
- 517 72 109 KORN DM BRAUNSTE R
DOUBLE BEAM VACUUM ULTRAVIOLET SPECTROMETER AND LOGARITHMIC RATIONOMETER
APPL. OPT., 11, 517, 1972
- 517 72 110 KRAUSS P ZELLER KP MEIER H
ZUR PHOTOLYSE VON 1,2,3-THIADIZOLEN. 2. ESR-STUDIEN ZUR STICKSTOFF ELIMINIERUNG
TETRAHEDRON, 27, NO. 23, XXX, 1971
- 517 72 111 KULEVSKY N
PHOTOCHEMICAL OXIDATIONS. 5. CONCERTED VS RADICAL STEPWISE ADDITION OF OXYGEN TO THE CARBON-HYDROGEN
BOND OF HYDROCARBONS
J. ORG. CHEM., 37, 438, 1972
- 517 72 112 KUNIEDA T WITKOP B
1. PHOTO AND STEREOCHEMISTRY OF 5,6-METHYLENOPYRIMIDINE NUCLEOSIDES, BICYCLIC ISOMERS OF THYMIDINE
AND 5-METHYLURIDINE. 2. PREPARATION AND PHOTOCHEMISTRY OF PYRIMIDINE NUCLEOSIDE SULFONIUM YLIDES.
JACS, 93, 3478 AND 3487, 1971
- 517 72 113 KUNTZEL H
PHOTOCHEMICAL REACTIONS. PHOTODECARBONYLATION OF ALPHA-ARYL ALDEHYDES.
HELV. CHIM. ACTA, 54, 868, 1971
- 517 72 114 KUROWSKY SR MORRISON M
PHOTOCHEMISTRY OF BICHROMOPHORIC MOLECULES. THE SOLUTION PHASE PHOTOISOMERIZATION OF 5-HEPTEN-2-ONE
JACS, 94, 507, 1972
- 517 72 115 LAIRD T WILLIAMS M
1. PHOTOLYSIS OF PHENACYLSULFONIUM AND AMMONIUM SALTS. 2. PHOTOLYSIS AND REARRANGEMENT REACTIONS OF
ALPHA-BROMOPHENACYLONIUM SALTS. 3. BROMOMETHYLSULFONIUM SALTS
J. CHEM. SOC. C, P1863, P3467, AND P3471, 1971
- 517 72 116 LEVIN RH JONEC M
LIGHT INDUCED TRANSFORMATIONS OF A SPIRONORCARADIENE
TETRAHEDRON, 27, 2031, 1971
- 517 72 117 LEVY A MEYERSTEIN D OTTOLENGHI M
PHOTOCHEMICALLY INDUCED ISOTOPE EXCHANGE BETWEEN IODOBENZENE AND MOLECULAR IODINE
J. PHYS. CHEM., 75, 3350, 1971
- 517 72 118 LEVY LA
PHOTOCHEMICAL ISOMERIZATION OF N-ALKOXYISULFONOBENZIMIDES
TETRAHEDRON LETS, P3289, 1972
- 517 72 119 LEWIS FO JOHNSON RW RUDEN RA
PHOTOCHEMISTRY OF BICYCLOALKYLPHENYL KETONES
JACS, 94, 4292, 1972
- 517 72 120 LIPELES M MALMUTH N

ANALYTICAL STUDIES OF SIMPLIFIED PHOTOCHEMICAL SMOG KINETICS
ENVIRON. SCI. TECHNOL., 6, 360, 1972

- 517 72 121 LURIA M STEIN G
PHOTOCHEMISTRY OF BENZENE IN OXYGENATED AQUEOUS SOLUTION IN (11B(2U) FIRST EXCITED SINGLET STATE
J. PHYS. CHEM., 76, 165, 1972
- 517 72 122 MAKI Y SUZUKI M MASADA Y
NOVEL PHOTOCHEMICAL REACTION OF ALCOHOLS IN PRESENCE OF AN OLEFIN AND 2-AMINO BENZENETHIOL
J. CHEM. SOC., CHEM. COMMUN., P209, 1972
- 517 72 123 MATSUI K MORI T NOZAKI H
PHOTODIMERIZATION OF LARGE RING CYCLOALKANONES
BULL. CHEM. SOC. JAPAN, 44, 3440, 1971
- 517 72 124 MATSUURA T
PHOTOINDUCED REACTIONS. 49. PHOTOSENSITIZED OXYGENATION OF CIS,CIS-1,5-CYCLOOCTADIENE AND
CIS-CYCLOOCTENE
TETRAHEDRON, 27, 3095, 1971
- 517 72 125 MAYCOCK AL BERCHTOLD GA
PHOTOCHEMICAL REACTIONS OF PHENACYL AND BENZYL SULFONIUM SALTS
J. ORG. CHEM., 35, 2532, 1970
- 517 72 126 MCBEE ET BURTON WL
MECHANISM OF THE FORMATION OF 1,8-EXP-PENTACHLOROPENTACYCLO(6.2.1.1(3.6).0(2.7).0(4.10))
DODECAN-5-ONE IN THE PHOTOLYSIS OF FNDRIIN
J. ORG. CHEM., 37, 1056, 1972
- 517 72 127 MCDANIEL DM TURRO NJ
PHOTOCHEMISTRY OF BICYCLO(6.2.0)DECAN-9-ONES IN SOLUTION
TETRAHEDRON LETS, P3035, 1972
- 517 72 128 MELLOR JM WEBB CF
SYNTHESIS AND PHOTOREARRANGEMENT OF 9-THIABICYCLO(3.3.1)NONA-3,7-DIENE-2,6-DIONE
J. CHEM. SOC., PERKIN TRANS., I, P211, 1972
- 517 72 129 MITSUNOB D MATSUMOTO S WADA M
PHOTO-OXIDATION OF 1,4-DIHYDROPYRIDINES
BULL. CHEM. SOC. JAPAN, 45, 1463, 1972
- 517 72 130 MOCK WL RUMON KA
PHOTOREDUCTION OF 2,4-DIMETHYL-3-OXO-3,5,6,7,8,8A-HEXAHYDRO-1,8A-BUTANDINAPHTHALENE, A
NONPHOTOREARRANGING CROSS CONJUGATED CYCLOHEXADIENONE
J. ORG. CHEM., 37, 400, 1972

- 517 72 131 MORRIS MR VARING AJ
STEREOSPECIFIC PHOTOISOMERISATIONS OF 6-ACETOXY-2,3,4,5,6-PENTAMETHYLCYCLOHEXA-2,4-DIENONE
J. CHEM. SOC. C, P3269, 1971
- 517 72 132 MUKAI T
PHOTOCHEMICAL REACTION OF BRIDGED CYCLOHEPTA-3,5-DIENONE SYSTEMS
JACS, 94, 675, 1972
- 517 72 133 MUNCHAUSEN L
NEW PHOTOCHEMICAL ADDITION REACTIONS OF ACETYLENES. 2. SYNTHETIC POTENTIAL OF NEIGHBORING GROUP
PARTICIPATION IN PHOTOLYTIC HYDRATION
TETRAHEDRON LETS, P1917, 1971
- 517 72 134 NAKAGAWA M KANEKO T YAMAGUCHI H
PHOTOINDUCED OXIDATION OF TRYPTAMINE DERIVATIVES. FORMATION OF PYRROLO(2,3-B)INDOLE AND
N(8)-(4-CYANOBUTADI
J. CHEM. SOC., CHEM. COMMUN., P603, 1972
- 517 72 135 NASIELSKI J JACQUIN G
PHOTOCHEMISTRY OF AROMATIC COMPOUNDS. 6. PHOTODECARBONYLATION OF 3,3-
DIPHENYL-2-(3H)-BENZO(8)THIOPHENONE
TETRAHEDRON, 28, 597, 1972
- 517 72 136 MUNN EE
PHOTOLYSIS OF ADDUCTS DERIVED FROM O-CHLORANIL. NEW ROUTE TO DIHYDROBARRELENE
TETRAHEDRON LETS, P175, 1972
- 517 72 137 OBI K OGATA Y TANAKA I
EFFECTS OF EXCITING ENERGY ON ATOMIC AND MOLECULAR DETACHMENTS OF HYDROGEN IN PHOTOLYSIS OF SIMPLE
MOLECULES
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971
- 517 72 138 OGATA Y TAKAGI K ISHINO I (2)
1. PHOTODECOMPOSITION OF 1-SUBSTITUTED 3,4-DIHYDROISQUINOLINES. 2. PHOTOCYCLIZATION OF
ACRYLANILIDES
TETRAHEDRON, 27, 2785, 1971 AND J. ORG. CHEM., 36, 3975, 1971
- 517 72 139 OGURA K MATSUURA T
PHOTOINDUCED REACTIONS. 43. PHOTOCHEMICAL REACTIONS OF 4-HYDROXY-2,5-CYCLOHEXADIENONES
BULL. CHEM. SOC. JAPAN, 43, 3187, 1970
- 517 72 140 OHGA K MATSUO T
STUDY ON THE PHOTOCHEMISTRY OF ALPHA,BETA UNSATURATED GAMMA-LACTONES. 1. STRUCTURES OF THE
PHOTODIMERS OF 4-HYDROXYCROTONIC ACID GAMMA-LACTONE
BULL. CHEM. SOC. JAPAN, 43, 3505, 1970
- 517 72 141 OHNO A KOIZUMI T
PHOTOCYCLOADDITION OF THIOCARBONYL COMPOUNDS TO MULTIPLE BONDS. 8. REACTION OF THIOBENZOPHENONE WITH
IMINES
TETRAHEDRON LETS, P2421, 1971
- 517 72 142 OLIVER WR HAMILTON LR
MCCLAFFERTY REARRANGEMENT AND TYPE-II PHOTOCLEAVAGE OF BENZOYLACETANILIDE
TETRAHEDRON LETS, P1837, 1971
- 517 72 143 ONG HH MAY EL
- PHOTOCYCLIZATIONS. 1. 4,5-DIHYDRO-1H-NAPHTH(1,8-DE)ASOCIN-2(3H)-ONE. 2. SYNTHESIS OF
IMINOETHANOPHENANTHRIDINE (SEVEN MEMBERED RINGS) HOMOLOGS
J. ORG. CHEM., 35, 2944, 1970 AND 37, 712, 1972
- 517 72 144 OWSLEY DC BLOOMFIELD JJ
PHOTOCHEMICAL SYNTHESIS AT LOW TEMPERATURES. 3. READY SYNTHESIS OF BICYCLO(4,2,0)OCTAN-2-ONES FROM
CYCLOHEXENONES AND ETHYLENE
J. CHEM. SOC. C, P3445, 1971
- 517 72 145 PADWA A SMOLANOFF J (2)
1. PHOTOCHEMISTRY OF C10CL802, M.P. 190 DEGREES. A STEREOCHEMICAL STRUCTURE REASSIGNMENT. 2.
PHOTOCYCLOADDITION OF ARYLAZIRENES WITH ELECTRON DEFICIENT GLEFINS. 3. PHOTOCHEMICAL
TRANSFORMATIONS OF SMALL RING CARBONYL COMPOUNDS. XXX. ELECTRON TRANSFER IN THE PHOTOCHEMISTRY OF
AZETIDINYL KETONES. 4. ELECTRON TRANSFER IN THE TYPE-II PHOTOELIMINATION OF
ALPHA-AMINOACETOPHENONES
TETRAHEDRON LETS, P3164, 1971, JACS, 93, 548, 1971, JACS, 93, 2928, 1971, AND JACS, 93, 6998, 1971
- 517 72 146 PADWA A BATTISTI A (1) CLOUGH S (2,5) DHARAN M (2) EISENBERG W (3,4)
GEHRLIN L (5)
1. PHOTOCHEMICAL TRANSFORMATIONS IN THE 9-HETEROBICYCLO(3,3,1)NONENONE SYSTEM. 2. PHOTODIMERIZATION
OF ARYLAZIRENES. SOME ASPECTS OF MECHANISM. 3. PHOTOCHEMISTRY OF EXO AND ENDO-5-BENZOYLBICYCLO(2
,1,1)HEXANE. 4. PHOTOCHEMICAL TRANSFORMATIONS OF SMALL RING CARBONYL COMPOUNDS. XXXIX.
PHOTOCHEMICAL SYNTHESIS AND CHEMICAL REACTIVITY OF TRICYCLO(3,2,0,0(2,6))HEPTAN-7-OL SYSTEM. 5.
PHOTOCHEMICAL REARRANGEMENT IN 1,5-DIAZABICYCLO(5,1,0)OCTA-3,5-DIENE SYSTEM
JACS, 94, 521, 1972, JACS, 94, 1395, 1972, JACS, 94, 5859, 1972, JACS, 94, NO. 16, XXXX, 1972, AND
J. CHEM. SOC., CHEM. COMMUN., P74, 1972
- 517 72 147 PHILLIPS LF
RAPID MODULATION OF MICROWAVE POWERED LAMPS FOR PHOTOCHEMISTRY
REV. SCI. INSTRUM., 42, 1078, 1971
- 517 72 148 PLOTNIKOV VG KOZLOV YI SMIRNOV VA
ISOTOPIC EFFECT IN PHOTODISSOCIATION PROCESSES OF TRIPLET EXCITED MOLECULES
OPT. SPEKTROSK., 32, 694, 1972 IN RUSSIAN
- 517 72 149 PORTER ON UPSTILL HG
PHOTOCHEMICAL REARRANGEMENT OF A REDUCED DIBENZOTHIOPHEN
TETRAHEDRON LETS, P255, 1972
- 517 72 150 PRINZBACH H STUSCHE D
PHOTOCHEMICAL TRANSFORMATIONS. 40. MONOHETERO DERIVATIVES OF EIS AND TRISHOMOBENZENES
ANGEW. CHEM., 82, 836, 1970 IN GERMAN

- 517 72 151 PUSSET J
ETUDE DE REACTIONS PHOTOCHEMIQUES. 11. PHOTOXYDATION DE SYSTEMES ENOLIQUE ET DIENOLIQUE EN SERIE
STEROIDE
TETRAHEDRON, 27, 2939, 1971
- 517 72 152 REBBERT RE LIAS SG AUSLOOS P
1. VACUUM ULTRAVIOLET PHOTOLYSIS OF METHANE. REACTION OF METHYLENE. 2. PHOTOCHEMISTRY OF PROPANE AT
HIGH PHOTON ENERGIES (18.4 TO 21.2 EV)
CHEM. PHYS. LETT., 12, 323, 1971 AND J. RES. NAT. BUR. STAND., 75A, 607, 1971
- 517 72 153 REINFRIED R
PHOTOCHEMISTRY OF 3-ALKYLCYCLOPENT-2-ENONES
HELV. CHIM. ACTA, 54, 1517, 1971
- 517 72 154 REISCH J WEIDMANN KG NIEMEYER OH (4)
1. PHOTOCHEMIE DES P-NITROBENZALDEHYDS. 2. PHOTO UND RADIOLYSE DES CHLORAMPHENICOLS. 3. NOTIZ ZUR
PHOTOCHEMIE DES DICHLORACETAMIDS. 4. PHOTOCHEMISCHE STUDIEN AM SULFANILAMID, SULFACETAMID UND
4-AMINOBENZOSAURE-ATHYLESTER
ARCH. PHARM., 304, 906, 911, AND 920, 1971 AND 305, 135, 1972
- 517 72 155 RHOADES OF WANG SY
NEW PHOTOPRODUCT OF CYTOSINE. STRUCTURE AND MECHANISM STUDIES
JACS, 93, 3779, 1971
- 517 72 156 ROBINSON GE VERNON JM
1. PHOTOCHEMICAL REACTIONS OF CHLOROBENZENE DERIVATIVES IN BENZENE. 2. PREPARATION AND
PHOTOCHEMISTRY OF SOME CHLORINE SUBSTITUTED DERIVATIVES OF DEOXYBENZOLIN AND BIBENZYL
J. CHEM. SOC. C, P3363, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P1277, 1972
- 517 72 157 ROSENBERG HM
PHOTOLYSIS OF 1-PHENYLCYCLOHEXENE IN METHANOL
J. ORG. CHEM., 37, 141, 1972
- 517 72 158 SALTIEL J WRIGHTON M (1) MEGARITY ED (2)
1. ACETONE SENSITIZED CIS-TRANS PHOTOISOMERIZATION OF OCTA-2,6-DIENES. 2. MECHANISM OF DIRECT
CIS-TRANS PHOTOISOMERIZATION OF STILBENES. SOLVENT VISCOSITY AND AZULENE EFFECT
J. CHEM. SOC., CHEM. COMMUN., P129, 1972 AND JACS, 94, 2742, 1972
- 517 72 159 SASAKI T
1. STUDIES ON HETEROAROMATICITY. ALVILLI CYCLOADDITION REACTIONS OF 4-PHENYL-1,2,4-TRIAZOLINE-3,5-
DIONE WITH 7-MEMBERED RING UNSATURATED COMPOUNDS AND PHOTOCHEMICAL BEHAVIOUR OF ADDUCTS. 2.
STUDIES OF HETEROAROMATICITY. LIX. FURTHER INVESTIGATIONS OF CYCLOADDITION REACTIONS OF TROPONE
WITH AZODIENOPHILES AND PHOTOCHEMICAL BEHAVIOUR OF ADDUCTS. 3. STUDIES OF BRIDGED BENZO
HETEROCYCLES. II. CYCLOADDITION REACTIONS OF EPOXY BRIDGED CYCLIC OLEFINS WITH TROPONE AND
TROPOLONE, AND PHOTOCHEMICAL BEHAVIOUR OF ADDUCTS
J. CHEM. SOC. C, P2142, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P783 AND P1951, 1972
- 517 72 160 SATO H FURUTACH N NAKANISH K
FACTORS INVOLVED IN PHOTOINDUCED PI SINGLET ISOMERIZATIONS OF CYCLIC BETA,GAMMA UNSATURATED KETONES
JACS, 94, 2150, 1972
- 517 72 161 SCALA AA BALLAN DG
VACUUM ULTRAVIOLET PHOTOLYSIS OF CYCLOHEXANONE
J. PHYS. CHEM., 76, 615, 1972
- 517 72 162 SCHARF MD SEIDLER H

PHOTOCYCLOADDITION VON DICHLORVINYLENCARBONAT (DCVC) AN BUTIN-(2)
CHEM. BER., 104, 2995, 1971
- 517 72 163 SCHAUBLE JH
CRYSTAL STATE PHOTODIMERIZATION OF METHYL ALPHA-(4-NITROPHENYL)ACRYLATE AND 4-NITROSTYRENE.
NORBORNENE
J. ORG. CHEM., 36, 1302, 1971
- 517 72 164 SCHEFFER JR BOIRE BA
SOLUTION PHOTOCHEMISTRY. 5. DIFFERENCES IN SINGLET AND TRIPLET STATE REACTIVITIES OF SOME ACYCLIC 1
7-DIENES
JACS, 93, 5490, 1971
- 517 72 165 SCHIFF HI
LABORATORY MEASUREMENTS OF REACTIONS RELATED TO OZONE PHOTOCHEMISTRY
ANN. GEOPHYS., 28, 67, 1972
- 517 72 166 SCHULTE-ELTE KH OHLOFF G (1)
1. PHOTOCHEMIE DES CARYOPHYLLENS UND DES ISO-CARYOPHYLLENS UMLAGERUNGEN IHRER 1,5-DIENSYSTEME NACH
DIREKTER PI,PI(STAR)-ANREGUNG IN FLUSSIGER PHASE. 2. FARBSTOFFSENSIBILISIERTE PHOTOXYGENIERUNG
VON BETA-DAMASCOL. EIN EINFACHES VERFAHREN ZUR DARSTELLUNG VON BETA-DAMASCENON
HELV. CHIM. ACTA, 54, 370 AND 1899, 1971
- 517 72 167 SCHUMACHER G
BEITRAGE ZUR OKOLOGISCHEN CHEMIE. 32. PHOTOCHEMISCHE REAKTIONEN DES ENDOSULFANS IN LOSUNG
TETRAHEDRON LETS, P2229, 1971
- 517 72 168 SCHUSTER DL BARRINGER WC
SYNTHESIS AND PHOTOCHEMISTRY OF 4'-4-ALKYLTESTOSTERONES
JACS, 93, 731, 1971
- 517 72 169 SEREBYAKOV EP
PHOTOCHEMICAL TRANSFORMATIONS OF GIBBERELLIN-A3 DERIVATIVES. ADDITION OF HYDROGEN DONATING SOLVENTS
TO A STRAINED CYCLOHEXENONE
TETRAHEDRON, 26, 3819, 1972
- 517 72 170 SHAFFER GW
PHOTOISOMERIZATION OF NOPINONE
J. ORG. CHEM., 37, 25, 1972
- 517 72 171 SHANI A MECHOULAM R
PHOTOCHEMICAL REACTIONS OF CANNABIDIOL. CYCLIZATION TO DELTA1-TETRAHYDROCANNABINOL AND OTHER
TRANSFORMATIONS
TETRAHEDRON, 27, 601, 1971

- 517 72 172 SHEEHAN JC WILSON RM OXFORD AW
PHOTOLYSIS OF METHOXY SUBSTITUTED BENZOIN ESTERS. PHOTOCHEMICAL SECONDARY PROTECTING GROUP FOR CARBOXYLIC ACIDS
JACS. 93. 7222. 1971
- 517 72 173 SHIOZAKI M
PHOTOCHEMICAL SYNTHESIS OF COMPOUNDS WITH GRAYANOTOXIN SKELETON
TETRAHEDRON LETRS. P657. 1972
- 517 72 174 SHIZUKA H TAKAYAMA Y (2) MORITA T (2)
1. PHOTOCHEMICAL REACTIONS OF SOME ARYLOXY-S-TRIAZINES IN SOLUTION. 2. KINETICS AND MECHANISM OF PHOTOCYCLIZATION OF DIPHENYLAMINES. II. PHOTOCHEMICAL SECONDARY PROCESSES OF DIPHENYLAMINES
TETRAHEDRON. 27. 4021. 1971 AND JACS. 93. 5987. 1971
- 517 72 175 SINGER LA
PHOTOCYCLOADDITION OF ACETONE TO KETENIMINES. SYN-ANTI EXCHANGE BARRIERS IN BETA-IMINOXETANES
JACS. 94. 1188. 1972
- 517 72 176 SINGH P
1. PHOTOREDUCTION OF ACETONE BY TOLUENE AND ETHYLBENZENE. 2. PHOTOADDITION REACTIONS. II. PHOTOADDITION OF DIMETHYL ACETYLENEDICARBOXYLATE TO CYCLIC ETHERS
J. CHEM. SOC. C. P714. 1971 AND J. ORG. CHEM. 37. 836. 1972
- 517 72 177 SINGH SN GEORGE MV
PHOTOCHEMICAL AND THERMAL TRANSFORMATIONS OF O-ALKYL-S-PHTHALIDYL XANTHATES AND DITHIOCARBAMOYL PHTHALIDES
J. ORG. CHEM. 37. 1375. 1972
- 517 72 178 SOVOCCOL GW
SECONDARY DEUTERIUM ISOTOPE EFFECTS AS MECHANISTIC PROBES IN PHOTOCHEMICAL REACTIONS
THESIS. CORNELL UNIV., ITHACA, N.Y. 1971. 171P. UNIV. MICROFILMS ORDER NO. 71-25,169
- 517 72 179 SPANGLER RJ SUTTON JC
PHOTOCHEMISTRY OF 1-KETO-2-CARBOMETHOXYMETHYLENEBENZOCYCLOBUTENE
J. ORG. CHEM. 37. 1462. 1972
- 517 72 180 SRINIVASAN R HSU JNC
PHOTOISOMERIZATION OF CERTAIN STILBENES TO 9,10-DIHYDROPHENANTHRENES
JACS. 93. 2816. 1971
- 517 72 181 STALS J BUCHANAN AS BARRACLOUGH CG
CHEMISTRY OF ALIPHATIC UNCONJUGATED NITRAMINES. 5. PRIMARY PHOTOCHEMICAL PROCESSES IN POLYCRYSTALLINE RDX
TRANS. FARADAY SOC. 67. 1749. 1971
- 517 72 182 STANKUNAS A ROSENTHAL I PITTS JN
PHOTOCHEMICAL AND RADIOCHEMICAL ALKYLATION OF CAFFEINE BY ALKYL AMINES
TETRAHEDRON LETRS. P4779. 1971
- 517 72 183 STANOVNIK B
PHOTOLYSIS OF 6-AZIDOAZOLOPYRIDAZINES
TETRAHEDRON LETRS. P3211. 1971
- 517 72 184 STARICCO EH SICRE JE SCHUMACHER HJ
PHOTOCHEMICAL REACTION BETWEEN FLUORINE AND OZONE
UCRL-TRANS-10565. TRANSLATED FOR UNIV. OF CALIFORNIA LAWRENCE LIVERMORE LAB., LIVERMORE, FROM Z.
PHYS. CHEM. (FRANKFURT). 31. 385. 1962. 13P. NTIS
- 517 72 185 STEPHENSON LM PARLETT JL
PHOTOCHEMISTRY OF 4-METHYL-4-ALKOXY-2-PENTANONES
J. ORG. CHEM. 36. 1093. 1971
- 517 72 186 STEVENSON JR BARTLETT JR
UNDERGRADUATE VACUUM ULTRAVIOLET SPECTROSCOPY LABORATORY
AMER. J. PHYS. 40. 172. 1972
- 517 72 187 STIEF LJ DONN B GLICKER S GENTIEU EP MENTALL JE
PHOTOCHEMISTRY AND LIFETIMES OF INTERSTELLAR MOLECULES
ASTROPHYS. J. 171. 21. 1972
- 517 72 188 STUHL F NIKI H
DETERMINATION OF RATE CONSTANTS FOR REACTIONS OF O ATOMS WITH C₂H₂, C₂D₂, C₂H₄, AND C₃H₆ USING A PULSED VACUUM-UV PHOTOLYSIS-CHEMILUMINESCENT METHOD
J. CHEM. PHYS. 55. 3954. 1971
- 517 72 189 SUGINOME H
PHOTOINDUCED REARRANGEMENT OF '3-O,23-O, N-TRIACETYLISOJERVINE 11BETA-OL' NITRITE
TETRAHEDRON LETRS. P661. 1972
- 517 72 190 SUGIYAMA N
PHOTOREACTION OF 2,6-DIPHENYL-4H-THIOPYRAN-4-ONE AND ITS RELATED COMPOUNDS
BULL. CHEM. SOC. JAPAN. 43. 32. 1970
- 517 72 191 SWENTON JS MADIGAN DM
COMPETITIVE HYDROGEN AND CARBOMETHOXY MIGRATION IN PHOTOCHEMISTRY OF 7-CARBOMETHOXY-3,4-BENZOTROPILIDENE
TETRAHEDRON. 28. 2703. 1972
- 517 72 192 TADA M
PHOTOCYCLOADDITION OF DELTA(ALPHA,BETA)-GAMMA-BUTYROLACTONE WITH OLEFINS AND ITS QUENCHING BY DIMETHOXYETHYLENE
TETRAHEDRON. 28. 2121. 1972
- 517 72 193 TAKEUCHI M
CHARGE-TRANSFER COMPLEX AND PHOTOCHEMICAL REACTION OF 9-ANTHRALDEHYDE HYDRAZONES IN SULPHUR DIOXIDE - OXYGEN
J. CHEM. SOC., PERKIN TRANS. II. P420. 1972
- 517 72 194 TANAKA H TSUDA M NAKANISHI H
PHOTOCHEMISTRY OF POLY(VINYL CINNAMYLIDENEACETATE) AND RELATED COMPOUNDS
J. POLYM. SCI., PART A-1. 10. 1729. 1972

- 517 72 195 TANNER DD
POLAR RADICALS. 4. ON THE PHOTOBROMINATION OF SEVERAL OPTICALLY ACTIVE 1-SUBSTITUTED 2-METHYLBUTANES
JACS. 93. 4802. 1971
- 517 72 196 TELLINGHUISEN JB WINKLER CA PHILLIPS LF
QUANTUM YIELDS IN THE 58.4 NM PHOTOLYSES OF AMMONIA AND WATER
J. PHYS. CHEM., 76. 298. 1972
- 517 72 197 TOBY FS TOBY S PRITCHARD GO
PHOTOCHEMISTRY OF HEXAFLUOROACETONE IMINE
JACS. 94. 4441. 1972
- 517 72 198 TOKUDA M
1. PHOTOCHEMICAL REACTION OF ALIPHATIC ALPHA,BETA-EPOXY ESTER. 2. RADIATION AND ULTRAVIOLET INDUCED
ADDITION OF ALCOHOLS TO ETHYL CROTONATE
TETRAHEDRON LTRS. P3133. 1971 AND J. ORG. CHEM., 37. 1859. 1972
- 517 72 199 TRAN-DINH-SON
PHOTOLYSIS AND RADIOLYSIS OF NITROMETHANE IN THE LIQUID PHASE
CEA-N-1528. THESIS. PARIS UNIV., ORSAY, FRANCE, JUNE 1972. 119P IN FRENCH. NTIS. COMMISSARIAT A L'
ENERGIE ATOMIQUE. SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES
- 517 72 200 TRONCHET MJM BARBALAT RE LE MO
PHOTOCHEMISCHE UMWANDLUNGEN. 45. DIE SIGMA SP(2)-SP(3) C-C. 3. DERIVES D'OXIMES D'ALDEHYDO-SUCRES.
UTILISATION DE TRIS-DIPIVALOYL METHANATO-EUROPIUM
HELV. CHIM. ACTA. 54. 2615. 1971
- 517 72 201 TROST BM CORY RM
THERMAL AND PHOTOCHEMICAL DECOMPOSITION OF 7,8-DIAZATETRACYCLO(3.3.0.0(2.4).0(3.6)) OCT-7-ENE. 1,2-
DIAZACYCLOOCTA-2,4,6,8-TETRAENE
JACS. 93. 5573. 1971
- 517 72 202 TSUCHIYA T ARAI H KAWAMURA H (2) IGETA H (3.5) TONAMI T (4)
1 - 4. PHOTOCHEMISTRY. III. PHOTOLYSIS OF 3,4,5,6-TETRAPHENYLPYRIDAZINE N-OXIDES. IV. PHOTOLYSES OF
3-CHLORO AND 3-HYDROXY-6-PHENYLPYRIDAZINES IN METHANOL CONTAINING HYDROGEN CHLORIDE. VI.
PHOTOINDUCED METHYLATION OF PYRIDAZINES. VII. PHOTOLYSES OF POLYPHENYLPYRIDAZINE N-OXIDES. 5.
PHOTOLYSIS OF PYRIDAZINE N-OXIDES: FORMATION OF CYCLOPROPENYL KETONES
TETRAHEDRON LTRS. P2579. 1971. CHEM. PHARM. BULL. (TOKYO). 20. 269. 273. AND 300. 1972. AND J. CHEM.
SOC., CHEM. COMMUN., P550. 1972
- 517 72 203 TSUJIMUI K SHIMIZU H YONEZAWA T
PHOTOCHEMICAL DECOMPOSITION OF BENZOTRIAZOLES
BULL. CHEM. SOC. JAPAN. 45. 515. 1972
- 517 72 204 TURRO NJ MORTON D (1) HEDAYA E (1) KENT ME (1) DALTON JC (2.4)
DAWEC K (2.1) WEISS DS (2) BARLTROP JA (2)
1. PHOTOCHEMICAL AND THERMAL REARRANGEMENTS OF 4,4,6,6-TETRAMETHYL-1-OXASPIRO(2.3)HEXON-5-ONE. 2.
TYPE-I AND TYPE-II PHOTOCHEMICAL REACTIONS OF SOME FIVE AND SIX MEMBERED CYCLOALKANONES. 3. LA
PHOTOCHEMIE MOLECULAIRE. 4. MOLECULAR PHOTOCHEMISTRY OF ALKANONES IN SOLUTION: ALPHA-CLEAVAGE,
HYDROGEN ABSTRACTION, CYCLOADDITION, AND SENSITIZATION REACTIONS
TETRAHEDRON LTRS. P2535. 1971 (AD-735 206). AD-738 227. RECE. 3. NO. 20. 145. 1972. AND ACCOUNTS
CHEM. RES., 5. NO. 3. 92. 1972
- 517 72 205 UEDA K MATSUI M
STUDIES ON CHRYSANTHEMIC ACID. 21. PHOTOCHEMICAL ISOMERIZATION OF CHRYSANTHEMIC ACID AND ITS
DERIVATIVES
TETRAHEDRON. 27. 2771. 1971
- 517 72 206 VAN THIELEN J
PHOTOCHEMISTRY OF HETEROCYCLIC COMPOUNDS. 2. KETOTRIAZOLES
TETRAHEDRON LTRS. P3031. 1971
- 517 72 207 VERNON JM ROBINSON GE
PHOTOCHEMICAL PHENYLATION AND OXIDATION OF HALOGEN SUBSTITUTED DIPHENYLMETHANES IN BENZENE
J. CHEM. SOC. C. P2586. 1970
- 517 72 208 WAGNER PJ ZEPP RG
TRAPPING BY MERCAPTANS OF THE BIRADICAL INTERMEDIATES IN TYPE-II PHOTOELIMINATION
JACS. 94. 187. 1972
- 517 72 209 WANG RSH
PHOTOLYSIS OF 2,6-DI-TERT-BUTYL-4-ALKYLPHENOLS WITH POLYHALOMETHANES
J. ORG. CHEM., 37. 2771. 1972
- 517 72 210 WANG SY RHOADES OF (1)
1. PYRIMIDINE PHOTOTETRAMER. 2. THYMINE PHOTOTRIMER
JACS. 93. 2554 AND 2768. 1971
- 517 72 211 WATERS JA KONDO Y WITKOP B
PHOTOCHEMISTRY OF STEROIDS
J. PHARM. SCI., 61. 321. 1972
- 517 72 212 WYNBERG H
PHOTODIMERIZATION OF SOME THIOPHENE ANALOGS OF CHALCONE
J. ORG. CHEM., 35. 2826. 1970
- 517 72 213 YABE A TSUDA M HONDA K
PHOTOSENSITIVITY AND PHOTOCHEMICAL REACTIONS OF POLY(VINYL P-AZIDOCINNAMATE)
J. POLYM. SCI., PART A-1. 10. 2379. 1972
- 517 72 214 YOSHIOKA M HOSHINO M
PHOTOREACTION OF 6-HYDROXY-2,3-BENZOTROPONE
TETRAHEDRON LTRS. P2413. 1971
- 517 72 215 ZAIDEL AN SHREIDER EY
VACUUM ULTRAVIOLET SPECTROSCOPY
BOOK. ANN ARBOR-UMPHREY SCIENCE PUBLISHERS INC., ANN ARBOR, MICHIGAN, 1970. 405P. INTERNATIONAL
SCHOLARLY BOOK SERVICES INC., PORTLAND, OREGON. TRANSLATION OF SPEKTROSKOPIYA VAKUUNNOGO UL'
TRAFIOLETA. 11 CHAPTERS

- 517 72 216 ZEMAVI U PATCHORNIK A
LIGHT SENSITIVE GLYCOSIDES. 1. 6-NITROVERATRYL-BETA-D-GLUCOPYRANOSIDE AND
2-NITROBENZYL-BETA-D-GLUCOPYRANOSIDE. 2-NITROBENZYL-6-DEOXY-ALPHA-L-MANNOPYRANOSIDE AND
2-NITROBENZYL-6-DEOXY-BETA-L-GALACTOPYRANOSIDE
J. ORG. CHEM., 37, 2281, 1972
- 517 72 217 ZIMMERMAN HE BAUM AA (1) CRUMRINE DS (3)
EXPLORATORY AND MECHANISTIC ORGANIC PHOTOCHEMISTRY. (1) LXII. ELECTRON DELOCALIZATION AS A
CONTROLLING FACTOR IN THE DI-PI-METHANE REARRANGEMENT. (2) LXIV. SLITHER MOTION OF DIVALENT CARBON
ON PI SYSTEMS IN PHOTOCHEMICAL REARRANGEMENTS. (3) LXV. DUALITY OF MECHANISMS IN PHOTORACEMIZATION
OF OPTICALLY ACTIVE BIPHENYLS
JACS, 93, 3646 AND 3662, 1971 AND 94, 498, 1972
- 518 72 001 ASBRINK L FRIDH C LINDHOLM E
INTERPRETATION OF PHOTOELECTRON SPECTRA OF HYDROCARBONS BY USE OF A SEMIEMPIRICAL CALCULATION
JACS, 94, 5501, 1972
- 518 72 002 GAHR JL BLAKE AJ CARVER JH
PHOTOELECTRON SPECTRA AND PARTIAL PHOTOIONIZATION CROSS SECTIONS FOR NO, N2O, CO, CO2, AND NH3
J. QUANT. SPECTROSC. RAD. TRANSFER, 12, 59, 1972
- 518 72 003 BERKOWITZ J
PHOTOELECTRON SPECTROSCOPY OF HIGH TEMPERATURE VAPORS. 1. TLCL, TLBR, AND TLI
J. CHEM. PHYS., 56, 2766, 1972
- 518 72 004 BOCK H WITTEL K
PHOTOELECTRON SPECTRA AND MOLECULAR PROPERTIES OF TRANS-DIHALOGENOETHYLENES: SUBSTITUENT EFFECTS
SPIN-ORBIT COUPLING
J. CHEM. SOC., CHEM. COMMUN., P602, 1972
- 518 72 005 BOEKELME V MURRELL JN SCHMIDT W
PHOTOELECTRON SPECTRUM OF TRANS-15,16-DIMETHYLDIHYDROPYRENE
TETRAHEDRON LETS, P575, 1972
- 518 72 006 BO'SHI R SCHMIDT W
PHOTOELECTRON SPECTRA OF POLYCYCLIC AROMATIC HYDROCARBONS, PYRENE AND CORONENE
TETRAHEDRON LETS, P2577, 1972
- 518 72 007 BREMSER W
ON DEFINITION OF SENSITIVITY IN X-RAY PHOTOELECTRON SPECTROSCOPY
Z. ANAL. CHEM., 259, NO. 3, 204, 1972
- 518 72 008 BRUNDLE CR BROWN DB
VIBRATIONAL STRUCTURE IN PHOTOELECTRON SPECTRA OF ETHYLENE AND ETHYLENE-D4, AND ITS RELATIONSHIP TO
VIBRATIONAL SPECTRUM OF ZEISE'S SALT K(PTCL3(C2H4)).H2O
SPECTROCHIM. ACTA, 27A, NO. 12, XXX, 1971
- 518 72 009 BRUNDLE CR ROBIN MB KUEBLER NA
PERFLUORO EFFECT IN PHOTOELECTRON SPECTROSCOPY. 1. NONAROMATIC MOLECULES. 2. AROMATIC MOLECULES
JACS, 94, 1451 AND 1466, 1972
- 518 72 010 BUS J
X-RAY PHOTOELECTRON SPECTRUM OF TRIS(C)-2-OXYFUZZAN ('HEXANITROBENZENE')
REC. TRAV. CHIM., 91, 552, 1972
- 518 72 011 CARLSON TA ANDERSON CP (1) JONAS AE (2) WHITE RM (3)
1. ANGULAR DISTRIBUTION OF PHOTOELECTRON SPECTRUM FOR BENZENE. 2. ANGULAR DISTRIBUTION OF THE
PHOTOELECTRON SPECTRA FOR AR, KR, Xe, H2, N2, AND CO. 3. STUDY OF THE ANGULAR DISTRIBUTION FOR THE
PHOTOELECTRON SPECTRA OF HALOGEN SUBSTITUTED METHANE MOLECULES
1. CHEM. PHYS. LETS, 10, 561, 1971. 2. J. CHEM. PHYS., 55, 4913, 1971. 3. CONF-720905-1, OAK RIDGE
NATIONAL LAB., TENN., 1972. 17P. NTIS. FROM CONFERENCE ON PHOTOELECTRON SPECTROSCOPY OF MOLECULES,
SUSSEX, ENGLAND, SEPT. 12, 1972
- 518 72 012 CARVER JC SCHWEITZ GK CARLSON TA
USE OF X-RAY PHOTOELECTRON SPECTROSCOPY TO STUDY BONDING IN CR, MN, FE, AND CO COMPOUNDS
J. CHEM. PHYS., 57, 973, 1972
- 518 72 013 CASHION JK MEES JL EASTMAN DE SIMPSON JA KUYATT CE
WINDOWLESS PHOTOELECTRON SPECTROMETER FOR HIGH RESOLUTION STUDIES OF SOLIDS AND SURFACES
REV. SCI. INSTRUM., 42, 1670, 1971. COM-72-5031, 1971
- 518 72 014 CETINKAY B KING GH KRISHNAM SS
PHOTOELECTRON SPECTRA OF ELECTRON RICH OLEFINS AND AN ISOSTRUCTURAL BORON COMPOUND: OLEFINS OF
EXCEPTIONALLY LOW FIRST IONISATION POTENTIAL
J. CHEM. SOC., CHEM. COMMUN., P1370, 1971
- 518 72 015 CHADWICK D
PHOTOELECTRON SPECTRA OF PHOSGENE AND THIOPHOSGENE
J. PHYS. CHEM., 76, 737, 1972
- 518 72 016 DANBY CJ ELAND JMD
PHOTOELECTRON-PHOTON COINCIDENCE SPECTROSCOPY. 2. DESIGN AND PERFORMANCE OF A PRACTICAL INSTRUMENT
J. MASS SPECTRY, ION PHYS., 8, 153, 1972. 8 REFERENCES
- 518 72 017 DERRICK PJ ASBRINK L EDVIST O JONSSON BO LINDHOLM E
RYDBERG SERIES IN SMALL MOLECULES. 10. PHOTOELECTRON SPECTROSCOPY AND ELECTRONIC STRUCTURE OF FURAN.
11. PHOTOELECTRON SPECTROSCOPY AND ELECTRONIC STRUCTURE OF THIOPHENE. 12. PHOTOELECTRON
SPECTROSCOPY AND ELECTRONIC STRUCTURE OF PYRROLE. 13. PHOTOELECTRON SPECTROSCOPY AND ELECTRONIC
STRUCTURE OF CYCLOPENTADIENE
J. MASS SPECTRY, ION PHYS., 6, 161, 177, 191, AND 203, 1971. 28, 24, 24, AND 19 REFERENCES
- 518 72 018 DIXON RN DUXBURY G HORANI M (1) FLEMING GR (2)
1. H2S(+) RADICAL ION. A COMPARISON OF PHOTOELECTRON AND OPTICAL SPECTROSCOPY. 2. PHOTOELECTRON
SPECTRUM OF THIAZYL FLUORIDE
MOL. PHYS., 22, 977, 1971 AND CHEM. PHYS. LETS, 14, 60, 1972
- 518 72 019 DURMAZ S KING GH SUFFOLK RJ
CALCULATION OF VIBRATIONAL ENVELOPE AND BOND ANGLE IN FIRST EXCITED STATE OF H2S(+) FROM
PHOTOELECTRON SPECTRUM OF H2S
CHEM. PHYS. LETS, 13, 304, 1972

- 518 72 020 EDQVIST O ASBRINK L LINDHOLM E
ON PHOTOELECTRON SPECTRUM OF NO
Z. NATURFORSCH., 26A, 1407, 1971
- 518 72 021 ELAND JHD
PHOTOELECTRON-PHOTON COINCIDENCE SPECTROSCOPY. 1. BASIC PRINCIPLES AND THEORY
J. MASS SPECTRY, ION PHYS., 8, 143, 1972, 6 REFERENCES
- 518 72 022 EVANS S JOACHIM PJ ORCHARD AF TURNER DM
A STUDY OF ORBITAL ELECTRONIC STRUCTURE OF P4 MOLECULE BY PHOTOELECTRON SPECTROSCOPY
J. MASS SPECTRY, ION PHYS., 9, 41, 1972, 25 REFERENCES
- 518 72 023 FRANKLIN ML GORDON WA
EVALUATION OF SOME WIDE DYNAMIC RANGE READOUT SYSTEMS FOR PHOTOELECTRIC INTEGRATING SPECTROMETERS
N72-12070, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 518 72 024 FROST DC KATRIS A MCDOWELL CA MCLEAN RAN
(2)Al BAND IN PHOTOELECTRON SPECTRUM OF HYDROGEN SULPHIDE
J. MASS SPECTRY, ION PHYS., 7, 485, 1971, 6 REFERENCES
- 518 72 025 GRINNARD CR RIGGS WM
X-RAY PHOTOELECTRON SPECTROSCOPY OF FLUOROPOLYMERS
ANAL. CHEM., 44, 1310, 1972
- 518 72 026 GRIFFITH DM LESCH GH RAMPFER GF
PHOTOELECTRON MICROSCOPY: NEW APPROACH TO MAPPING ORGANIC AND BIOLOGICAL SURFACES
PROC. NAT. ACAD. SCI. U.S.A., 69, 561, 1972
- 518 72 027 GRIM SO MATIENZO LJ SWARTZ WE
X-RAY PHOTOELECTRON SPECTROSCOPY OF SOME NICKEL DITHIOLATE COMPLEXES
JACS, 94, 5116, 1972
- 518 72 028 HASELBAC E SCHMELZE A
ON CORRELATION BETWEEN PHOTOELECTRON AND ELECTRONIC SPECTRA. 2. EXPERIMENTAL INDICATIONS ABOUT SHAPE
OF LONE PAIR ORBITALS
HELV. CHIM. ACTA, 55, 1745, 1972
- 518 72 029 HERRING FG MCLEAN RA
ON THE USE OF PHOTOELECTRON SPECTRUM OF A MOLECULE IN INTERPRETATION OF ELECTRONIC SPECTRUM OF
CONJUGATED SYSTEM
INORG. CHEM., 11, 1667, 1972
- 518 72 030 HOLLAS JM SUTHERLE TA
GEOMETRY OF CYANOGEN HALIDE POSITIVE IONS FROM PHOTOELECTRON SPECTROSCOPY
MOL. PHYS., 22, NO. 2, XXX, 1971
- 518 72 031 JOLLY WL
CORRELATION OF CORE BINDING ENERGIES BY A POTENTIAL MODEL BASED ON 'HALF-IONIZED' CORES AND A NEW
METHOD FOR CALCULATING ATOMIC CHARGES
LBL-854, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., MAY 1972, 21P. CONF-720909-1, NTIS,
FROM GENERAL DISCUSSION ON THE PHOTOELECTRON SPECTROSCOPY OF MOLECULES, BRIGHTON, ENGLAND, SEPT.
12, 1972
- 518 72 032 JONATHAN N MORRIS A OKUDA M
PHOTOELECTRON SPECTROSCOPY OF TRANSIENT SPECIES: CS MOLECULE

CHEM. PHYS. LETT., 13, 334, 1972
- 518 72 033 KELLY MC BLAKE JG
MEASUREMENT OF PULSE SEPARATIONS FOR PHOTOELECTRONS IN CASE OF A LORENTZ SPECTRAL LINE
J. PHYS. A, 5, NO. 1, L7, 1972
- 518 72 034 KING GH KROTO HW SUFFOLK RJ
PHOTOELECTRON SPECTRUM OF A SHORT LIVED SPECIES IN DECOMPOSITION PRODUCTS OF CS2
CHEM. PHYS. LETT., 13, 457, 1972
- 518 72 035 KINSINGE J STEBBING W VALENZI R TAYLOR J
SPECTRAL EVALUATION OF A SEALED HELIUM DISCHARGE LAMP FOR STUDIES IN PHOTOELECTRON SPECTROSCOPY
ANAL. CHEM., 44, 773, 1972, AD-744 747, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF
COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 518 72 036 KLEIMENO VI CHIZHOV YV VILESOV FI
STUDY OF SELF IONIZATION PROCESSES IN NITROGEN OXIDE BY METHOD OF PHOTOELECTRON SPECTROSCOPY
OPT. SPEKTROSK., 32, 702, 1972 IN RUSSIAN
- 518 72 037 KRAMER LM
INVESTIGATIONS OF BONDING, STRUCTURE, AND QUANTITATIVE ANALYSIS IN BIOLOGICAL SYSTEMS BY MEANS OF
X-RAY PHOTOELECTRON SPECTROSCOPY
LBL-306, THESIS, CALIFORNIA UNIV., BERKELEY, JULY 1971, 114P, NTIS, LAWRENCE BERKELEY LAB.
- 518 72 038 LEIBFRIED D
X-RAY PHOTOELECTRON SPECTROSCOPY OF IRON CONTAINING PROTEINS: VALENCY OF IRON IN FERREDOXINS
ANGEW. CHEM. INT. ED. ENGL., 11, 232, 1972
- 518 72 039 LONG RL BEAVIS LC
VERSATILE SOFT X-RAY APPEARANCE POTENTIAL SPECTROMETER
REV. SCI. INSTRUM., 43, 939, 1972, 4 FIGURES
- 518 72 040 MAEDA K IHARA T
NEW PHOTOELECTRON SPECTROMETER: COMBINATION OF CYLINDRICAL MIRROR ANALYZER WITH SOFT X-RAY SOURCE
REV. SCI. INSTRUM., 42, 1480, 1971
- 518 72 041 MCGUIRE GE
PHOTOELECTRON CHEMICAL SHIFTS IN INORGANIC COMPOUNDS
ORNL-TM-3820, THESIS, TENNESSEE UNIV., KNOXVILLE, JULY 1972, 103P, NTIS, OAK RIDGE NATIONAL LAB.,
TENN.
- 518 72 042 MODDEMAN WE BLACKBURN JR KUMAR G
PHOTOELECTRON SPECTROSCOPY OF COORDINATION COMPOUNDS. 3. A COMPARISON OF PLATINUM(II) AND
PLATINUM(IV) COMPOUNDS
INORG. CHEM., 11, 1113, 1972

- 518 72 043 NATALIS P DELWICHE J COLLIN JE
ENHANCEMENT OF VIBRATIONAL LEVEL POPULATION OF $N_2(+) AND CO(+) BY PHOTOELECTRON SPECTROMETRY$
CHEM. PHYS. LETT., 13, 491, 1972
- 518 72 044 NIEHAUS A RUF MW
1. ANGULAR DISTRIBUTIONS OF PHOTOELECTRONS FROM DIFFERENT ROTATIONAL $M_2 - M_2(+) TRANSITIONS$. 2.
VARIATION OF PHOTOELECTRON ANGULAR DISTRIBUTIONS WITH ENERGY
CHEM. PHYS. LETT., 11, NO. 1, XXX, 1971 AND Z. PHYS., 252, 84, 1972
- 518 72 045 NOVAKOV T MUELLER PK ALCOCER AE
CHEMICAL COMPOSITION OF PASADENA AEROSOL BY PARTICLE SIZE AND TIME OF DAY. 3. CHEMICAL STATES OF
NITROGEN AND SULFUR BY PHOTOELECTRON SPECTROSCOPY
J. COLLOID INTERFACE SCI., 39, 225, 1972
- 518 72 046 POTTS AW PRICE WC
1. PHOTOELECTRON SPECTRA OF HALOGENS AND MIXED HALIDES ICL AND IBr. 2. PHOTOELECTRON SPECTRA OF
METHANE, SILANE, GERMANE, AND STANNANE. 3. PHOTOELECTRON SPECTRA AND VALENCE SHELL ORBITAL
STRUCTURES OF GROUPS-V-VI HYDRIDES
TRANS. FARADAY SOC., 67, 1242, 1971, AND PROC. ROY. SOC. (LONDON), SER. A, 326, 165 AND 181, 1972
- 518 72 047 RABALAIS JW
PHOTOELECTRON SPECTROSCOPIC INVESTIGATION OF ELECTRONIC STRUCTURE OF NITROMETHANE AND NITROBENZENE
J. CHEM. PHYS., 57, 960, 1972
- 518 72 048 RAFFERTY J RICHARDS WG
A THEORETICAL CALCULATION OF THE STATES OF $O_2(+) ACCESSIBLE IN THE PHOTOELECTRON SPECTRUM OF$
 $O_2(1) \Delta(g)$
J. MASS SPECTRY, ION PHYS., 6, 269, 1971, 14 REFERENCES
- 518 72 049 RIGGS WM
X-RAY PHOTOELECTRON SPECTROMETRY OF PLATINUM COMPOUNDS
ANAL. CHEM., 44, 830, 1972
- 518 72 050 ROBIN MB BRUNDLE CR KUEBLER NA
PHOTOELECTRON SPECTRA OF SMALL RINGS. 4. UNSATURATED THREE MEMBERED RINGS
J. CHEM. PHYS., 57, 1758, 1972
- 518 72 051 SCHMIDT W WILKINS BT
1. ZUR NATUR DES 'SILICIUM-BETA-EFFEKTS' (EOI)-VERFAHREN ZUR INTERPRETATION VON PHOTOELEKTROEN(PE)
SPEKTREN: NEOPENTAN. 2. EQUIVALENT ORBITAL METHOD OF INTERPRETING PHOTOELECTRON (PE) SPECTRA:
NEOPENTANE
ANGEW. CHEM., 84, 168, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 221, 1972
- 518 72 052 SHARMA VN SINGH R TOLPADI SK
ON PHOTOELECTRON IMPACT EXCITATION TO $E(3) \Sigma(g) (+) (G) ELECTRONIC STATE OF MOLECULAR NITROGEN AND$
CASCADE CONTRIBUTIONS TO LOW LYING STATES IN DAY-GLOW
ANN. GEOPHYS., 27, 419, 1971
- 518 72 053 SMITH DL
EMPIRICAL REPRESENTATION OF PHOTOELECTRIC CROSS SECTIONS
ANL-7904, ARGONNE NATIONAL LAB., ILL., JAN., 1972, NTIS
- 518 72 054 STEC WJ MORGAN WE VAN WAZER JR
INNER ORBITAL PHOTOELECTRON SPECTROSCOPY OF SEVERAL PAIRS OF SIMILAR PHOSPHORUS COMPOUNDS
J. INORG. NUCL. CHEM., 34, 1100, 1972
- 518 72 055 SWEIGART DA TURNER DW
LONE PAIR ORBITALS AND THEIR INTERACTIONS STUDIED BY PHOTOELECTRON SPECTROSCOPY. 1. CARBOXYLIC ACIDS
AND THEIR DERIVATIVES. 2. EQUIVALENT ORBITALS IN SATURATED OXYGEN AND SULFUR HETEROCYCLES
JACS, 94, 5592 AND 5599, 1972
- 518 72 056 THOMAS RK THOMPSON H
PHOTOELECTRON SPECTRA OF CARBONYL HALIDES AND RELATED COMPOUNDS
PROC. ROY. SOC. (LONDON), SER. A, 327, 13, 1972
- 518 72 057 WAGNER CD
1. AUGER LINES IN X-RAY PHOTOELECTRON SPECTROMETRY. 2. SENSITIVITY OF DETECTION OF THE ELEMENTS BY
PHOTOELECTRON SPECTROMETRY
ANAL. CHEM., 44, 967 AND 1050, 1972
- 518 72 058 WEIDNER U SCHWEIG A
THEORY AND APPLICATION OF PHOTOELECTRON SPECTROSCOPY. 8. THROUGH-CONJUGATION THROUGH A TETRAHEDRAL
SILICON ATOM. 5. NATURE OF BONDING IN VINYL AND ALLYLSILANES: EFFECTS OF SIGMA-PI (σ -PI)
HYPERCONJUGATION AND P(PI)-D(PI) CONJUGATION IN THESE COMPOUNDS
J. ORGANOMET. CHEM., 37, NO. 2, C29, 1972 AND 39, NO. 2, 261, 1972
- 518 72 059 YIN LI GHOSE S ADLER I
X-RAY PHOTOELECTRON SPECTROSCOPIC STUDIES OF VALENCE STATES PRODUCED BY ION-SPUTTERING REDUCTION
APPL. SPECTROSC., 26, 355, 1972
- 518 72 060 YOKOYAMA Y IKEDA S WATANABE I (2)
1. A RETARDING FIELD PHOTOELECTRON SPECTROMETER. 2. A PARALLEL PLATE TYPE PHOTOELECTRON SPECTROMETER
JAPAN ANALYST, 20, NO. 12, XXX AND XXX, 1971
- 518 72 061 ZELLER MV HAYES RG
EVIDENCE FROM X-RAY PHOTOELECTRON SPECTROMETRY ON CHARGE DISTRIBUTION IN VARIOUS CHROMIUM COMPOUNDS
CHEM. PHYS. LETT., 10, 610, 1971
- 518 72 062 ZIPF EC STONE EJ
PHOTOELECTRON EXCITATION OF ATOMIC OXYGEN RESONANCE RADIATION IN THE TERRESTRIAL AIR-GLOW
J. GEOPHYS. RES., 76, 6865, 1971
- 520 72 001 BOGOMOLOV KS
NATURE OF THE PHOTOGRAPHIC EFFECT OF IONIZING RADIATION
USP. NAUCH. FOTOGR., 15, 67, 1970 IN RUSSIAN, 74 REFERENCES
- 520 72 002 CLEGG JB
REDUCTION IN SECONDARY ION FOGGING ON PHOTOGRAPHIC PLATES USED IN MASS SPECTROGRAPHY
ANAL. CHEM., 44, 1100, 1972

- 520 72 003 FERGASON LA YOUNG RC
DETERMINATION OF ION INTENSITIES FROM SPARK SOURCE MASS SPECTROMETRY PHOTOPLATES
APPL. SPECTROSC., 26, 620, 1972
- 520 72 004 FULLER CW WHITEHEAD J
USE OF A SHIELD FOR REDUCTION OF FOGGING ON PHOTOGRAPHIC PLATES IN SPARK SOURCE MASS SPECTROGRAPHY
J. SOC. ANAL. CHEM., 96, ISSUE 1149, 779, 1971
- 520 72 005 GRAIS KI GRAIS SG
CHARACTERISTICS OF ION SENSITIVE Q2 EMULSIONS FOR MASS SPECTROMETRY STUDIES
INDIAN J. PURE APPL. PHYS., 9, NO. 2, 127, 1971
- 520 72 006 KONISHI F NAKAMURA N
MASS RESPONSE OF ILFORD Q2 PLATES USED IN MASS SPECTROGRAPHY
MASS SPECTRY, JAPAN, 19, 213, 1971 IN JAPANESE
- 520 72 007 LORBER HW
CHARACTERIZATION OF PHOTOGRAPHIC FILM
EGG-1183-1491, TECH REPORT L-1009, EG AND G, INC., LAS VEGAS, NEV., OCT. 1970, 32P, NTIS
- 520 72 008 MERKULOV MF KORTUKOV EV
COMPARATIVE SENSITIVITY OF NUCLEAR PHOTOGRAPHIC EMULSIONS USED IN AUTORADIOGRAPHY
Zh. NAUCH. PRIKL. FOTOGR. KINEMATOG., 16, NO. 5, 326, 1971 IN RUSSIAN, 48 REFERENCES
- 520 72 009 PERFILOV NA
PHOTOGRAPHIC METHOD IN NUCLEAR PHYSICS
USP. NAUCH. FOTOGR., 15, 52, 1970 IN RUSSIAN, 39 REFERENCES
- 520 72 010 ROBINSON D MILLETT EJ CLEGG JB
PHOTOPLATE RESPONSE FUNCTIONS FOR SPARK SOURCE MASS SPECTROGRAPHY
NP-19467, MULLARD RESEARCH LABS., REDHILL, ENGLAND, SEPT. 1971, 25P, NTIS
- 525 72 001 AGOSTINI P LUVAN M MAINFRAY G
MULTIPHOTON IONIZATION AND DISSOCIATION OF HYDROGEN MOLECULE AT 1.06 MU
PHYS. LETT., 36A, 21, 1971
- 525 72 002 ALIMOV DT BEREZHETSKAYA NK DELONE GA DELONE NB
RESONANCE PHENOMENA DURING MULTIPHOTON IONIZATION OF XENON ATOMS IN ELECTRIC FIELDS OF ABOUT
5X10 (TO7) V/CM
BOOKLET, ORDENA LENINA FIZICHESKII INSTITUTIMENI P.N. LEBEDEVA, MOSCOW, 1971, 10P, NP-19085.
AKADEMIYA NAUK SSSR, MOSCOW, INSTITUT FIZIKI, 1971, 11P IN RUSSIAN, REL-1973/0, 1P
- 525 72 003 AMBARTZU BY LETOKHOV VS
SELECTIVE TWO-STEP (STS) PHOTOIONIZATION OF ATOMS AND PHOTODISSOCIATION OF MOLECULES BY LASER
RADIATION
APPL. OPT., 11, 354, 1972
- 525 72 004 AMUSYA MY CHEREPKO NA CHERNYSH LV
CROSS SECTION FOR PHOTOIONIZATION OF NOBLE GAS ATOMS WITH ALLOWANCE FOR MULTIELECTRON CORRELATIONS
SOV. PHYS. JETP (ENGL. TRANS.), 33, 90, 1971
- 525 72 005 AMUSYA MY IVANOV VK CHEREPKO NA
INTERFERENCE EFFECTS IN PHOTOIONIZATION OF NOBLE GAS ATOMS OUTER S-SUBSHELLS
PHYS. LETT., 40A, 361, 1972
- 525 72 006 BELL KL KINGSTON AE
- PHOTOIONIZATION CROSS SECTIONS FOR HELIUM ISOELECTRONIC SERIES
J. PHYS., 8, 4, 1308, 1971
- 525 72 007 BERKOWITZ J CHUPKA WA GUYON PM HOLLOWAY JH SPOHR R
PHOTOIONIZATION MASS SPECTROMETRIC STUDY OF F2, HF, AND DF
J. CHEM. PHYS., 54, 5165, 1971
- 525 72 008 BEZPALKO RM GUTMAN II MAZUR VA
CALCULATIONS ON SECTION OF PHOTOIONIZATION FOR MULTIELECTRON ATOM
IZV. VYSSE. UCHEB. ZAVED., FIZ., NO. 1, 151, 1972 IN RUSSIAN
- 525 72 009 BLAKE AJ
PHOTOIONIZATION STUDY OF MERCURY BY PHOTOELECTRON SPECTROSCOPY
PROC. ROY. SOC. (LONDON), SER. A, 32, ISSUE 1503, 1971
- 525 72 010 BROWN RT
PHOTOIONIZATION CROSS SECTIONS FOR HELIUM-LIKE POSITIVE IONS
ASTROPHYS. J., 170, 387, 1971
- 525 72 011 BRUNETEA J FABRE E
PHOTOIONISATION D'UN GAZ PAR LE RAY ONNEMENT ULTRAVIOLET EXTREME D'UN PLASMA CREE PAR LASER
PHYS. LETT., 39A, 411, 1972
- 525 72 012 BUTYLKIN VS KUDREVAT OV
WAVE FUNCTION REPRESENTATION BY MEANS OF A SYSTEM OF NONORTHOGONAL FUNCTIONS AND ALLOWANCE FOR
CONTRIBUTION OF DISCRETE LEVELS OF A SINGLE-PARTICLE SYSTEM TO PROBABILITY OF ITS MULTIPHOTON
IONIZATION
TMP, 3, NO. 1, 1053, 1970
- 525 72 013 CARLSON TA KRAUSE MO
RELATIVE ABUNDANCES AND RECOIL ENERGIES OF FRAGMENT IONS FORMED FROM THE X-RAY PHOTOIONIZATION OF
N2, O2, CO, NO, CO2, AND CF4
J. CHEM. PHYS., 56, 3206, 1972
- 525 72 014 CARVER JM GARDNER JL
PHOTOELECTRON SPECTROSCOPY AND PARTIAL PHOTOIONIZATION CROSS SECTIONS FOR IODINE AND BROMINE
J. QUANT. SPECTROSC. RAD. TRANSFER, 12, 207, 1972, N71-25365, 1971
- 525 72 015 CHANG J KELLY HP
RELATIVISTIC CALCULATIONS FOR PHOTOIONIZATION CROSS SECTIONS AND SPIN ORIENTATION OF PHOTOEJECTED
ELECTRONS FROM POTASSIUM, RUBIDIUM, AND CESIUM ATOMS
PHYS. REV., 5A, 1713, 1972

- 525 72 016 CHAPMAN RD HENRY RJW
1. PHOTOIONIZATION CROSS SECTIONS FOR ATOMS AND IONS OF SULFUR. 2. PHOTOIONIZATION CROSS SECTIONS FOR ATOMS AND IONS OF ALUMINUM, SILICON, AND ARGON
ASTROPHYS. J., 168, 169, 1971 AND 173, 243, 1972
- 525 72 017 COOLING K MADDEN RP
RESONANCES IN PHOTOIONIZATION CONTINUUM OF KR AND XE
PROC. ROY. SOC. (LONDON), SER. A, 4, 2261, 1971
- 525 72 018 COMBET-FARNOUX F
DETERMINATION OF PHOTOIONIZATION CROSS SECTIONS IN VARIOUS ATOMIC MODELS
J. PHYS. (PARIS), COLLOQ., 31, NO. 11-12, C.203, 1970 IN FRENCH. FROM INTERNATIONAL SYMPOSIUM ON THE THEORY OF ATOMIC STRUCTURE, GIF-SUR-YVETTE, FRANCE, JULY 8, 1970. CONF-700718
- 525 72 019 COOK GR MCNEAL RJ
PHOTOIONIZATION OF VIBRATIONALLY EXCITED NITROGEN
J. CHEM. PHYS., 56, 1388, 1972. AD-734 533, 1971. 49P. NTIS
- 525 72 020 DELONE GA DELONE NS MANAKOV NL PISKOVA GK
APPLICATION OF PERTURBATION THEORY FOR DESCRIBING MULTIPHOTON PROCESSES IN THE IONIZATION OF ATOMS
BOOKLET, ORDENA LENINA FIZICHESKII INSTITUTIMENI P.N. LEBEDEV, MOSCOW, 1971. 11P. NP-19126.
AKADEMIYA NAUK SSSR, MOSCOW, INSTITUT FIZIKI, 1971. 12P IN RUSSIAN. AEC-TR-7377, 8P. NTIS
- 525 72 021 DIBELER VH WALKER JA (2) MCCULLOH KE (2) RCSENSTOCK H (2)
1. PHOTOIONIZATION STUDIES AND THERMODYNAMIC PROPERTIES OF SOME HALOGEN MOLECULES. 2. EFFECT OF HOT BANDS ON THE IONIZATION THRESHOLD OF SOME DIATOMIC HALOGEN MOLECULES
COM-72-5016 AND COM-72-5021, 1970 AND 1971. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151
- 525 72 022 DUMAS JL
STUDY OF THE PHOTOIONIZATION OF METALLIC TARGETS AND ITS APPLICATION TO MASS SPECTROMETRY
CEA-R-4178, THESIS, GRENOBLE UNIV., FRANCE, AUG. 1971. 143P IN FRENCH. COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 525 72 023 EDERER DL
CROSS SECTION PROFILES OF RESONANCES IN PHOTOIONIZATION CONTINUUM OF KRYPTON AND XENON (600 - 400 ANGSTROMS)
PROC. ROY. SOC. (LONDON), SER. A, 4, 2263, 1971
- 525 72 024 EVANS RG THONEMAN PC
RESONANT MULTIPHOTON IONISATION OF CAESIUM USING A RUBY LASER
PHYS. LETT., 39A, 133, 1972
- 525 72 025 FARNOUX FC
PHOTOIONISATION OF GOLD AND BISMUTH IN EXTREME ULTRAVIOLET: CALCULATIONS INCLUDING FINAL STATE CORRELATIONS
PHYS. LETT., 38A, 405, 1972
- 525 72 026 FOX RA
THREE-QUANTUM PHOTOIONIZATION OF CESIUM
THESIS, NEW YORK UNIV., NEW YORK, MICROFILMS ORDER NO. 72-13,355. DISS. ABS., 32B, 10, 5966, 1972
- 525 72 027 FREEMAN RW WENTWORTH WE
HELIUM PHOTOIONIZATION DETECTOR UTILIZING A MICROWAVE DISCHARGE SOURCE
ANAL. CHEM., 43, 1987, 1971
- 525 72 028 HELD B MAINFRAY G MORELLEC J (1) MANUS C (2)
1. MULTIPHOTON IONIZATION PROBABILITY OF POTASSIUM ATOMS AT 1.06 MU AND 0.53 MU. 2. MOLECULAR CESIUM COMPONENT IN MULTIPHOTON IONIZATION OF A CESIUM ATOMIC BEAM BY A Q-SWITCHED NEODYMIUM-GLASS LASER AT 1.06 MU
PHYS. LETT., 39A, 57, 1972 AND PHYS. REV. LETT., 28, 130, 1972
- 525 72 029 HUGHES VM LONG RL LUBELL MS POSNER M RAITH W
POLARIZED ELECTRONS FROM PHOTOIONIZATION OF POLARIZED ALKALI ATOMS
PHYS. REV., 5A, 195, 1972. AD-737 526, 1971
- 525 72 030 ISHII S OHLENDORF W
PHOTOIONIZATION OF METASTABLE ATOMS OF BARIUM
PHYS. LETT., 38A, 119, 1972
- 525 72 031 JACOBS VL BURKE PG
PHOTOIONIZATION OF HELIUM ABOVE $n = 2$ THRESHOLD
J. PHYS., B, 5, NO. 4, L67, 1972
- 525 72 032 JOHNSON BM TAYLOR JW
PHOTOIONIZATION MASS SPECTROMETRY. 3. COMPARISON OF PHOTON AND ELECTRON IMPACT EXCITATION OF CIS AND TRANS-2-DECENE
J. MASS SPECTRY, ION PHYS., 10, NO. 1, 1, 1972. 23 REFERENCES
- 525 72 033 KAEHLER H
COMPUTATION OF PHOTOIONIZATION CROSS SECTIONS BY MEANS OF SCALED THOMAS-FERMI POTENTIAL
J. QUANT. SPECTROSC. RAD. TRANSFER, 11, 1521, 1972. N71-37228, 1970. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151
- 525 72 034 KELLY MP RON A (1)
1. PHOTOIONIZATION CROSS SECTION OF NEUTRAL IRON ATOM. 2. PHOTOIONIZATION ACCOMPANIED BY EXCITATION OF Fe(I)
1. PHYS. REV., 5A, 168, 1972. AD-730 197 AND AD-744 579, 1971. 2. PHYS. REV., 6A, 1048, 1972. AD-749 167, 1972
- 525 72 035 KENNEDY DJ MANSON ST
PHOTOIONIZATION OF NOBLE GASES: CROSS SECTIONS AND ANGULAR DISTRIBUTIONS
PHYS. REV., 5A, 227, 1972
- 525 72 036 KILLGOAR P LERDI GE BERKOWITZ J CHUPKA WA
PHOTOIONIZATION MASS SPECTROMETRIC STUDY OF NO. A CLOSER LOOK AT THE THRESHOLD REGION
AD-746 463, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972

- 525 72 037 KIRKPATR RC
EFFECT OF CORE POLARIZABILITY ON PHOTOIONIZATION CROSS SECTION CALCULATIONS
PHYS. REV., 5A, 470, 1972
- 525 72 038 KLCTS CE
PHOTOSENSITIZED IONIZATION OF MOLECULES BY ARGON: COMPARISON WITH PHOTOIONIZATION MECHANISM
J. CHEM. PHYS., 56, 124, 1972
- 525 72 039 KLYUCHAR AN RYAZANOV NS
PHOTOIONIZATION OF 6(2)P CESIUM RESONANCE LEVELS BY LIGHT LAMDA = 488.0 NM
OPT. SPEKTROSK., 32, 1253, 1972 IN RUSSIAN
- 525 72 040 KOPPEL JU
PHOTOIONIZATION CROSS SECTIONS FOR GROUND STATE CONFIGURATION OF ATOMIC NITROGEN AND OXYGEN
J. CHEM. PHYS., 55, 123, 1971
- 525 72 041 KOVARSKII VA PEREL'MAN NF
ROLE OF ATOMIC SPECTRUM IN MULTIPHOTON IONIZATION PROCESSES
Zh. EKSP. TEOR. FIZ., 61, 1389, 1971 IN RUSSIAN
- 525 72 042 KRAUSE MO WUILLEUM F
PHOTOIONIZATION OF HELIUM: STUDY OF $He + h\nu = He^{(+)}(n=2) + e$
J. PHYS. B, 5, NO. 7, L143, 1972
- 525 72 043 KRONER J PROCH D FUSS W
IONISIERUNGS UND ANREGUNGSENERGIEN METHYL UND FLUORSUBSTITUIERTER BORAZINE
TETRAHEDRON, 28, 1585, 1972
- 525 72 044 LOROUET JC CADET C
EXCITED STATES OF GASEOUS IONS. 1. SELECTION RULES IN PHOTOELECTRON SPECTROSCOPY AND
PHOTOIONIZATION. CASE OF $N_2O^{(+)}$
J. MASS SPECTRY, ION PHYS., 7, 245, 1971, 21 REFERENCES
- 525 72 045 LUVAN M MAINFRAY G
MULTIPHOTON IONIZATION AND DISSOCIATION OF NITROGEN MOLECULE AT $LAMDA = 0.53 \mu$
PHYS. LETT., 39A, 21, 1972
- 525 72 046 MENTALL JE GENTIEU EP KRAUSS M NEUMANN D
PHOTOIONIZATION AND ABSORPTION SPECTRUM OF FORMALDEHYDE IN THE VACUUM ULTRAVIOLET
J. CHEM. PHYS., 55, 5471, 1971
- 525 72 047 MISSAVAG DW MANSON ST
PHOTOIONIZATION OF POSITIVE IONS OF ATOMIC OXYGEN
PHYS. LETT., 38A, 85, 1972
- 525 72 048 MULAL AJ
PHOTOIONIZATION OF N_2 AND O_2 AHEAD OF STRONG SHOCK WAVES IN A SHOCK TUBE
SC-RR-710560, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, OCT. 1971, 45P, NTIS
- 525 72 049 MURTY SS
ELECTRON NUMBER DENSITY AT SHOCK FRONT DUE TO PRECURSOR PHOTOIONIZATION
AIAA (AMER. INST. AERONAUT. ASTRONAUT.) J., 9, 1427, 1971
- 525 72 050 NAKATO Y OZAKI M TSUBOMUR H
PHOTOIONIZATION AND RYDBERG STATES OF TETRAAMINEETHYLENES IN ORGANIC SOLUTIONS
J. PHYS. CHEM., 76, 2105, 1972
- 525 72 051 NIKISHOV AI
EFFECT OF A CONSTANT ELECTRIC FIELD ON MULTIPHOTON IONIZATION
Zh. EKSP. TEOR. FIZ., 62, 562, 1972 IN RUSSIAN
- 525 72 052 NORCROSS DW
PHOTOIONIZATION OF THE HE METASTABLE STATES
J. PHYS. B, 4, 652, 1971
- 525 72 053 NYGAARD K HEBNER R
CROSS SECTION FOR PHOTOIONIZATION OF EXCITED CESIUM ATOMS
AD-741 222, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972
- 525 72 054 UKUDA I
TWO PHOTON IONIZATION OF ALKALI METAL VAPORS BY RUBY LASER
J. PHYS. SOC. JAPAN, 31, NO. 4, XXX, 1971
- 525 72 055 PAULSEN DE HUFFMAN RE LARRABEE JC
IMPROVED PHOTOIONIZATION RATES OF O_2 (Δ) IN D REGION
RADIO SCI., 7, 51, 1972, AD-741 091, 1971
- 525 72 056 PERSON JC NICOLE PP
ISOTOPE EFFECTS IN THE PHOTOIONIZATION YIELDS AND IN THE ABSORPTION CROSS SECTIONS FOR METHANOL,
ETHANOL, METHYL BROMIDE, AND ETHYL BROMIDE
J. CHEM. PHYS., 55, 3390, 1971
- 525 72 057 POTAPOV VK SORUKIN VV (1)
1. PHOTOIONIZATION OF ALIPHATIC KETONES AND ALCOHOLS. 2. PRIMARY PHOTOIONIZATION PROCESSES AND
IONIC-MOLECULAR REACTIONS IN ORGANIC COMPOUNDS
1. KHIM. VYS. ENERG., 4, 355, 1970 IN RUSSIAN. FULL COPY OF THIS PAPER HELD BY DTIC. 2. USP. KHIM.,
40, 1675, 1971
- 525 72 058 ROTH TA
THRESHOLD LAW FOR DOUBLE PHOTOIONIZATION AND RELATED PROCESSES WITH $L=1$ FINAL STATES
PHYS. REV., 5A, 476, 1972
- 525 72 059 SCHLEGEL K
PHOTOIONIZATION YIELDS OF O , O_2 , AND N_2 FOR HIGH AND LOW SOLAR ACTIVITY
J. ATMOS. TERREST. PHYS., 33, 1923, 1971
- 525 72 060 SHAW GD DERRY RS
PHOTOIONIZATION AND AUTOIONIZATION OF H_2
J. CHEM. PHYS., 56, 5808, 1972

- 525 72 061 SMITH RL
PHOTOIONIZATION OF LITHIUM, SODIUM, AND POTASSIUM AND PHOTODETACHMENT OF THE NEGATIVE HYDROGEN ION
THESIS. LOUISIANA STATE UNIV., BATON ROUGE, 1971. 76P. UNIV. MICROFILMS ORDER NO. 72-3526
- 525 72 062 STOLARSK RS JOHNSON NP
PHOTOIONIZATION AND PHOTOABSORPTION CROSS SECTIONS FOR IONOSPHERIC CALCULATIONS
J. ATMOS. TERREST. PHYS., 34, 1691, 1972
- 525 72 063 TEGEDER K LINCKE R
PHOTOIONIZATION MEASUREMENTS WITH ATOMIC BEAMS. 1. AUTOIONIZATION LINES OF CU, AG, AND AU
Z. PHYS., 247, 51, 1971 IN GERMAN
- 525 72 064 VAN DER WIEL MJ
THRESHOLD BEHAVIOUR OF DOUBLE PHOTOIONISATION IN HE
PHYS. LTRS, 41A, 389, 1972
- 525 72 065 VILESOV FI LOPATIN SN (1) SUKHOV DA (2)
1. PHOTOELECTRON SPECTROMETER. 2. PHOTOIONIZATION OF ANTHRACENE MOLECULES AND ITS METHYL
SUBSTITUTERS INCORPORATED IN POLYMETHYL METHACRYLATE
ZH. TEKH. FIZ., 42, 176, 1972 AND FIZ. TVERD. TELA, 14, 2393, 1972 IN RUSSIAN
- 525 72 066 WARNECK P
1. PHOTOIONISATION VON METHANOL UND FORMALDEHYD. 2 AND 3. UNTERSUCHUNGEN VON IONENREAKTIONEN MITTELS
PHOTOIONISATION MASSENSPEKTROMETRIE. V. REAKTIONEN VON N₂(+) UND CO(+). VI. REAKTIONEN IN
ACETYLEN, ETHYLEN, ETHAN, UND DEREN GEMISCHEN
Z. NATURFORSCH., 26A, 2047, 1971 AND BER. BUNSENSES. PHYS. CHEM., 76, NO. 5, 413 AND XXX, 1972
- 525 72 067 WEISHEIT JC
EXCITED STATE CESIUM PHOTOIONIZATION CROSS SECTIONS
J. QUANT. SPECTROSC. RAD. TRANSFER, 12, 1241, 1972
- 525 72 068 WURSTER W
EXPERIMENTAL STUDIES OF PHOTOIONIZATION PROCESSES IN AIR
AD-737 733 AND AD-743 121. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE,
SPRINGFIELD, VA. 22151, 1971
- 525 72 069 ZIMKINA TM VINOGRAD AS
PHOTOIONIZATION ABSORPTION OF ATOMS IN POLYATOMIC MOLECULES IN AN ULTRASOFT X-RAY RADIATION REGION
BULL. ACAD. SCI. USSR PHYS. SER. (ENGL. TRANS.), 36, NO. 2, 248, 1972
- 525 72 070 ZON BA MANAKOV NL RAPOPORT LP
PERTURBATION THEORY OF MULTIPHOTON IONIZATION OF ATOMS
ZH. EKSP. TEOR. FIZ., 61, 968, 1971 IN RUSSIAN
- 530 72 001 ACKERMAN M GLEIZES F (1) SIMON P (1) FRIMOUT D (2) LIPPENS C (2)
MULLER C (2)
1. OBSERVATION DE PHENOMENES RESULTANT DE LACHERS DE METHANE ET D'OXYGEN A 160 ET A 270 KM D'
ALTITUDE. DETERMINATION DE TEMPERATS THERMOSPHERIQUES. 2. DETERMINATION OF THE VERTICAL
DISTRIBUTION OF STRATOSPHERIC METHANE BY BALLON BORNE INFRARED SPECTROMETRY
1. ANN. GEOPHYS., 27, 407, 1971. 2. N72-25837. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S.
DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972. IN FRENCH
- 530 72 002 AHMED M
THERMAL POSITIVE IONS IN THE OUTER IONOSPHERE AND MAGNETOSPHERE FROMOGO-1
J. GEOPHYS. RES., 77, 1205, 1972
- 530 72 003 AIKIN AC GOLDBERG RA SOMAYAJULU YV
ELECTRON AND POSITIVE ION DENSITY-ALTITUDE DISTRIBUTIONS IN THE EQUATORIAL D REGION.
J. ATMOS. TERREST. PHYS., 34, 1483, 1972. N71-32479. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION,
GREENBELT, MD., GODDARD SPACE FLIGHT CENTER, AUG. 1971. 27P. NASA-TM-S-65655, X-625-71-308. NTIS
- 530 72 004 ANDERSON JG
ROCKET BORNE ULTRAVIOLET SPECTROMETER MEASUREMENT OF OH RESONANCE FLUORESCENCE WITH A DIFFUSIVE
TRANSPORT MODEL FOR MESOSPHERIC PHOTOCHEMISTRY
J. GEOPHYS. RES., 76, 4634, 1971
- 530 72 005 BANKS PM
DIFFICULTIES WITH THERMAL PROTONS IN THE VENUSIAN TOPSIDE IONOSPHERE
J. GEOPHYS. RES., 76, 0455, 1971
- 530 72 006 BATES DR
PHYSICS OF THE UPPER ATMOSPHERE
AD-706 130. FINAL SCIENTIFIC REPORT, AUG. 1964 - AUG. 1969. QUEENS UNIV., BELFAST, NORTHERN IRELAND,
DEPT. OF APPLIED MATHEMATICS AND THEORETICAL PHYSICS, SEPT. 1969. 18P. AFRCL-70-204. NTIS
- 530 72 007 BELROSE JS ROSS DB MCNAMARA AG
IONIZATION CHANGES IN THE LOWER IONOSPHERE DURING THE SOLAR ECLIPSE OF MARCH 7, 1970
J. ATMOS. TERREST. PHYS., 34, 627, 1972
- 530 72 008 BIONDI MA
ATOMIC AND MOLECULAR PROCESSES IN ATMOSPHERIC ENVIRONMENTS
AD-742 721. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 530 72 009 BRACE LH WU WC (1) MAYR HG (2) PHARO MW
1. A NEUTRAL PARTICLE WAKE EXPERIMENT FOR MEASURING UPPER ATMOSPHERE TEMPERATURES FROM A MOVING
VEHICLE. 2. ELECTRON HEATING RATE AND ION CHEMISTRY IN THE THERMOSPHERE ABOVE WOLLOPS ISLAND
DURING THE SOLAR ECLIPSE OF MARCH 7, 1970
1. N69-14807. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GODDARD SPACE FLIGHT CENTER, GREENBELT,
MD. 28P. NTIS. 2. J. ATMOS. TERREST. PHYS., 34, 673, 1972
- 530 72 010 BRAGIN YA
CORPUSCULAR HYPOTHESIS OF THE IONIZATION OF THE D REGION OF THE IONOSPHERE IN CENTRAL LATITUDES
COSMIC RES. USSR (ENGL. TRANS.), 9, 574, 1971. TRANSLATED FROM KOSM. ISSLED., 9, 625, 1971
- 530 72 011 BRASHER WE
DISTRIBUTION OF NIGHTTIME F-REGION MOLECULAR ION CONCENTRATIONS AND 6300 A NIGHTGLOW MORPHOLOGY
THESIS. NORTH TEXAS STATE UNIV., DENTON, 1970. 97P. UNIV. MICROFILMS ORDER NO. 71-18,649

- 530 72 012 BRINTON HC GREBOWSKY JM MAYR HG
ALTITUDE VARIATION OF ION COMPOSITION IN THE MIDLATITUDE TROUGH REGION: EVIDENCE FOR UPWARD PLASMA FLOW
J. GEOPHYS. RES., 76, 3738, 1971
- 530 72 013 CARLETON NP TRAUB WA
DETECTION OF MOLECULAR OXYGEN ON MARS
SCIENCE, 177, 588, 1972
- 530 72 014 CHANDRA S STUBBE P
ION AND NEUTRAL COMPOSITION CHANGES IN THE THERMOSPHERIC REGION DURING MAGNETIC STORMS
PLANET. SPACE SCI., 19, 491, 1971
- 530 72 015 CHAPPELL CR HARRIS KK SHARP GW
DAYSIDE OF THE PLASMASPHERE
J. GEOPHYS. RES., 76, 7632, 1971
- 530 72 016 COLE KD
ATMOSPHERIC EXCITATION AND IONIZATION BY IONS IN STRONG AURORAL AND MAN-MADE ELECTRIC FIELDS
J. ATMOS. TERREST. PHYS., 33, 1241, 1971
- 530 72 017 COOLEY JE
NEUTRAL HELIUM, ATOMIC OXYGEN, AND MOLECULAR NITROGEN DENSITIES FROM THE EXPLORER 32 MASS SPECTROMETERS
N71-24084, NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD., GODDARD SPACE FLIGHT CENTER, 31P, NTIS
- 530 72 018 DANILOV AD SEMENOV VK
INVESTIGATION OF ELEMENTARY PROCESSES IN THE IONOSPHERE BY MEANS OF (GAS) RELEASES
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, NO. 2, 206, 1971, TRANSLATED FROM GEOMAGN. AERON., 11, 248, 1971
- 530 72 019 DATTA RN
SPORADIC E IONIZATION IN RELATION TO SURFACE PRESSURE DISTURBANCE DURING THUNDERSQUALLS
INDIAN J. PURE APPL. PHYS., 9, NO. 6, 394, 1971
- 530 72 020 DONAHUE TM
1. AERONOMY OF CO₂ ATMOSPHERES: REVIEW. 2. POSITIVE ION CHEMISTRY OF D AND E REGIONS
J. ATMOS. SCI., 28, 895, 1971 AND RADIO SCI., 7, 73, 1972
- 530 72 021 FATKULLIN MN SITNOV VS (1)
1. GENERALIZED OPERATOR OF AMBIPOLAR DIFFUSION OF CHARGED PARTICLES IN THE F REGION OF THE IONOSPHERE. 2. CONCENTRATION OF NEUTRAL HYDROGEN IN THE UPPER ATMOSPHERE ACCORDING TO DATA ON THE IONIC COMPOSITION OF THE MEDIUM
1. IZV. VYSSH. UCHEB. ZAVED., RADIOFIZ., 14, 788, 1971 IN RUSSIAN. 2. COSMIC RES. USSR (ENGL. TRANS.), 9, NO. 2, 228, 1971, TRANSLATED FROM KOSM. ISSLED., 9, NO. 2, 246, 1971
- 530 72 022 FERGUSON EE
1. D REGION ION CHEMISTRY. 2. ATMOSPHERIC METAL ION CHEMISTRY
1. REV. GEOPHYS. SPACE PHYS., 9, 997, 1971, 36 REFERENCES. 2. RADIO SCI., 7, 397, 1972, FROM 3RD. SEMINAR ON THE CAUSE AND STRUCTURE OF TEMPERATE LATITUDE SPORADIC E, LOGAN, UTAH, SEPT. 13, 1971, CONF-710960
- 530 72 023 FRANK LA GURNETT DC
DISTRIBUTIONS OF PLASMAS AND ELECTRIC FIELDS OVER THE AURORAL ZONES AND POLAR CAPS
AD-721 081, IOWA UNIV., IOWA CITY, DEPT. OF PHYSICS AND ASTRONOMY, FEB. 1971, 56P, NTIS
- 530 72 024 FREEMAN JW
ENERGETIC ION BURSTS ON THE NIGHTSIDE OF THE MOON
J. GEOPHYS. RES., 77, 239, 1972
- 530 72 025 GIRAUD A SCIALOM G POKHUNKOV AA
THERMOSPHERIC STRUCTURE: CORRELATION OF MASS SPECTROMETRY AND INCOHERENT-SCATTER SOUNDING
J. GEOPHYS. RES., 77, 1251, 1972
- 530 72 026 GOLOBERG RA AIKIN AC (2)
1. POSITIVE ION COMPOSITION MEASUREMENTS IN THE D AND E REGIONS OF THE EQUATORIAL IONOSPHERE. 2. STUDIES OF POSITIVE ION COMPOSITION IN THE EQUATORIAL D REGION IONOSPHERE
1. N71-32501, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971. 2. J. GEOPHYS. RES., 76, 8352, 1971
- 530 72 027 GRAY DR REWS JA
LATERAL DIFFUSION OF MASS IDENTIFIED POSITIVE IONS IN OXYGEN
J. PHYS., 8, 5, 1048, 1972
- 530 72 028 GROSS J VON ZAHN U
MASS SPECTROMETER MEASUREMENTS OF THE NEUTRAL NUMBER DENSITIES IN THE LOWER THERMOSPHERE ABOVE FORT CHURCHILL
N71-17151, BONN UNIV., WEST GERMANY, PHYSIKALISCHES INST. 72P IN GERMAN
- 530 72 029 HALL SH McDONALD DG MCGRATTEN GJ MACKENZIE EC
ROCKET OBSERVATIONS OF MIDDLE LATITUDE SPORADIC E, MAGNETIC FIELDS, WINDS, AND IONIZATION
PLANET. SPACE SCI., 19, 1319, 1971
- 530 72 030 HANSON WB SANATANI S
RELATIONSHIP BETWEEN Fe(+) IONS AND EQUATORIAL SPREAD F
J. GEOPHYS. RES., 76, 7761, 1971
- 530 72 031 HEDIN AE MAYR HG REBER CA CARIGNAN GR SPENCER NW
A GLOBAL EMPIRICAL MODEL OF THERMOSPHERIC COMPOSITION BASED ON OGO-6 MASS SPECTROMETER MEASUREMENTS
N72-23376, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1972
- 530 72 032 HENDERSON WR SCHIFF HI
A SIMPLE SENSOR FOR THE MEASUREMENT OF ATOMIC OXYGEN HEIGHT PROFILES IN THE UPPER ATMOSPHERE
COM-71-0095, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1970
- 530 72 033 HERTZ HG TUISCH H VERSMULD H
BERICHTIGUNG ZUR ARBEIT MOLECULAR MOTION AND STRUCTURE AROUND IONS Li(+) AND Al(+)3
DDR. DUNKELNOCES, PHYS. CHEM., 70, 61, 1972

- 530 72 034 HICKMAN DR NIER AD
MEASUREMENT OF THE NEUTRAL COMPOSITION OF THE LOWER THERMOSPHERE ABOVE FORT CHURCHILL BY
ROCKET-BORNE MASS SPECTROMETER
J. GEOPHYS. RES., 77, 2880, 1972
- 530 72 035 HINTON BB LEITE RJ
PERTURBATIONS TO OBSERVED AMBIENT NEUTRAL DENSITIES DUE TO PRESENCE OF AN ORBITING GEOPHYSICAL
OBSERVATORY
N71-23238, MICHIGAN UNIV., ANN ARBOR, HIGH ALTITUDE ENGINEERING LAB, 22P, NTIS
- 530 72 036 HUERTAS ML MARTY AM FONTAN J
MESURE DE LA MASSE ET DE LA MOBILITE DES PETITS IONS DANS L'AIR (MEASUREMENTS OF THE MASS AND
MOBILITY OF SMALL IONS IN AIR)
COMPT. REND., SER. B, 272, 1289, 1971
- 530 72 037 HUNT BG
CLUSTER IONS AND NITRIC OXIDE IN THE D REGION
J. ATMOS. TERREST. PHYS., 33, 929, 1971
- 530 72 038 HUNTER DM
COMPOSITION AND STRUCTURE OF PLANETARY ATMOSPHERES
SPACE SCI. REV., 12, 539-99, 1971, 157 REFERENCES
- 530 72 039 JOHANNESSEN A
DETECTION OF WATER CLUSTER IONS AT THE HIGH LATITUDE SUMMER MESOPAUSE
NATURE, 235, 215, 1972
- 530 72 040 JOHNSON CY
POSITIVE ION MASS SPECTROMETER OBSERVATIONS IN E REGION
RADIO SCI., 7, 99, 1972
- 530 72 041 KAWASHIM N OHYABU N
NEUTRAL POINT DISCHARGE AS SIMULATION EXPERIMENT OF SOLAR AND TERRESTRIAL PLASMAS
N72-13753, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1971
- 530 72 042 KERBLAI TS
VARIATIONS OF THE IONOSPHERIC F REGION
IONOS. ISSLED., NO. 19, 7-19, 1970 IN RUSSIAN, 40 REFERENCES
- 530 72 043 KIKUCHI H TAYLOR HA
IRREGULAR STRUCTURE OF THERMAL ION PLASMA NEAR PLASMAPAUSE OBSERVED FROM OGO-3 AND PC1 MEASUREMENTS
J. GEOPHYS. RES., 77, 131, 1972
- 530 72 044 KOZLOV SI
KINETICS OF IONS IN THE NIGHTTIME D REGION OF THE IONOSPHERE
COSMIC RES. USSR (ENGL. TRANS.), 9, NO. 1, 73, 1971, KOSM. ISSLED., 9, NO. 1, 81, 1971
- 530 72 045 KRANKOWSKY D ARNOLD F WIEDER H KISSEL J
ELEMENTAL AND ISOTOPIC ABUNDANCE OF METALLIC IONS IN THE LOWER E REGION AS MEASURED BY A
CRYOGENICALLY PUMPED QUADRUPOLE MASS SPECTROMETER
J. MASS SPECTRY, ION PHYS., 8, 379, 1972, 19 REFERENCES
- 530 72 046 KUTIMSKAYA MA POLYAKOV VM
ION COMPOSITION AND VERTICAL DISTRIBUTION OF CHARGED PARTICLES IN THE IONOSPHERIC F REGION AND IN
THE PROTONOSPHERE (SURVEY)
- PP 64-89 OF ISSLEDOVANIE IONOSFERY. SOKOLOV, A.K. (ED.). IZDATEL'STVO NAUKA SIBIRSKOE OTDELENIE,
NOVOSIBIRSK, USSR, 1970, IN RUSSIAN, 91 REFERENCES
- 530 72 047 LEWIS J
AN OPERATIONAL UPPER AIR ANALYSIS USING THE VARIATIONAL METHOD
AD-745 354, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972
- 530 72 048 LOVELOCK JE LODGE JP
OXYGEN IN CONTEMPORARY ATMOSPHERE
ATMOS. ENVIRON., 6, 575, 1972
- 530 72 049 LYLE RG STABEKIS PD
EARTH'S IONOSPHERE: SPACE DESIGN CRITERIA (ENVIRONMENT)
N71-30849, EXOTEC, INC., WASHINGTON, D.C., MARCH 1971, 49P, NASA-SP-8049, NTIS
- 530 72 050 MAHAJAN KK SAXENA OP
ESTIMATION OF NEUTRAL ATMOSPHERIC TEMPERATURE FROM CHARGED PARTICLE MEASUREMENTS IN THE TOPSIDE
IONOSPHERE
INDIAN J. PURE APPL. PHYS., 9, NO. 8, 516, 1971, FROM SYMPOSIUM ON IONOSPHERE-MAGNETOSPHERE
INTERACTIONS, NEW DELHI, INDIA, FEB. 1971
- 530 72 051 MAYR HG VOLLAND H (1) FONTHEIM EG (2) BRACE LH (2) BRINTON HC (2)
TAYLOR H (2)
1. MAGNETIC STORM EFFECTS IN NEUTRAL COMPOSITION. 2. THEORETICAL MODEL OF IONOSPHERE DYNAMICS WITH
INTERHEMISPHERIC COUPLING
PLANET. SPACE SCI., 20, 379, 1972 AND J. ATMOS. TERREST. PHYS., 34, 1659, 1972, N71-38576
- 530 72 052 MELTON LA KLEMPERE W
QUENCHING OF NC A(2)SIGMA(+) BY O2 X(3)SIGMA(G)(-)
PLANET. SPACE SCI., 20, 157, 1972
- 530 72 053 MIKHNEVICH VV DANILOV AD
ISSLEDOVANIYA ATMOSFERY I IONOSFERY V PERIOD POVYSHENNOI SOLNECHNOI AKTIVNOSTI (MAY-APREL' 1969 G
). SBORNIK STATEI (STUDIES OF ATMOSPHERE AND IONOSPHERE AT TIMES OF UNUSUAL SOLAR ACTIVITY (MAY-APRIL 1969). COLLECTION OF ARTICLES)
BOOK, GIDROMETEOROLOGICHESKOE IZDATEL'STVO, LENINGRAD, 1970, 160P, TRANSLATED AS JPRS-54718, 189P,
NTIS
- 530 72 054 MIRTOV BA
TEMPERATURE VARIATIONS AND THE STRUCTURE OF THE NIGHTTIME ATMOSPHERE (IONOSPHERE)
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 368, 1971, TRANSLATED FROM GEOMAGN. AERON., 11, 435, 1971

- 530 72 055 MITCHELL JD HALE LC OLSEN RO
POSITIVE IONS AND WINTER ANOMALY
RADIO SCI., 7, 175, 1972
- 530 72 056 NARASINGA RAD BC
INFLUENCE OF MAGNETOSPHERIC HEAT FLUX ON PLASMA TEMPERATURES AND COMPOSITION IN THE TOPSIDE
IONOSPHERE
INDIAN J. PURE APPL. PHYS., 9, 501, 1971. FROM SYMPOSIUM ON IONOSPHERE-MAGNETOSPHERE INTERACTIONS,
NEW DELHI, INDIA, FEB. 1971
- 530 72 057 NARCISI RS PHILBRICK CR (2) ULWICK JC (2) GARDNER ME (2) BAILEY AD (3)
WLODYKA LE (3)
1. COMPOSITION STUDIES OF THE LOWER IONOSPHERE. 2. MESOSPHERIC NITRIC OXIDE CONCENTRATIONS DURING A
PCA. 3. ION COMPOSITION MEASUREMENTS IN LOWER IONOSPHERE DURING NOVEMBER 1955 AND MARCH 1970 SOLAR
ECLIPSES
1. AD-749 597. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD,
VA. 22151, 1971. 2. J. GEOPHYS. RES., 77, 1332, 1972. AD-741 709, 1971. 3. J. ATMOS. TERREST.
PHYS., 34, 647, 1972. AD-744 403, 1971
- 530 72 058 NIEMANN HB SPENCER NW (1) SCHMITT GA (1)
1. A THERMOSPHERE COMPOSITION MEASUREMENT USING A QUADRUPOLE MASS SPECTROMETER WITH A SIDE ENERGY
FOCUSING QUASIOPEN ION SOURCE. 2. ATOMIC OXYGEN BEAM SYSTEM FOR THE INVESTIGATION OF MASS
SPECTROMETER RESPONSE IN THE UPPER ATMOSPHERE
1. N72-11327. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD,
VA. 22151, 1971. 2. REV. SCI. INSTRUM., 43, 1151, 1972
- 530 72 059 NIER AD
ON THE DETERMINATION OF THERMOSPHERIC ATOMIC OXYGEN DENSITIES WITH ROCKET-BORNE MASS SPECTROMETERS
J. GEOPHYS. RES., 77, 1987, 1972
- 530 72 060 NO AUTHOR
1. SYMPOSIUM ON ELECTROMAGNETIC PROBING OF THE UPPER ATMOSPHERE, CALCUTTA, JULY 1969. 2. SYMPOSIUM
ON IONOSPHERE-MAGNETOSPHERE INTERACTIONS, NEW DELHI, FEBRUARY 1971
1. INDIAN J. PURE APPL. PHYS., 8, 507-84, 1970. CONF-690729, 19 PAPERS. 2. INDIAN J. PURE APPL.
PHYS., 9, NO. 8, 493-676, 1971. CONF-710221, 44 PAPERS
- 530 72 061 OFFERMANN D PELKA K (2) VON ZAHN U (2)
1. ON THE ATOMIC OXYGEN MEASUREMENT BY ROCKET-BORNE MASS SPECTROMETERS. 2. MASS SPECTROMETRIC
MEASUREMENTS OF MINOR CONSTITUENTS IN LOWER THERMOSPHERE
J. GEOPHYS. RES., 77, 6284, 1972 AND J. MASS SPECTRY. ION PHYS., 8, 791, 1972. 15 REFERENCES
- 530 72 062 OSIPOV NK PIVOVAROVA NB
ION PRODUCTION FUNCTION DURING THE INTERACTION OF ELECTRON FLUXES WITH THE ATMOSPHERE
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, NO. 2, 233, 1971. TRANSLATED FROM GEOMAGN. AERON., 11, 282,
1971
- 530 72 063 PETERSEN A KANE JA
ROCKET MEASUREMENTS OF ION AND ELECTRON DENSITIES IN THE D AND LOWER E REGIONS NEAR SUNRISE
N72-10272. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD., GODDARD SPACE FLIGHT
CENTER, MARCH 1971. 27P. NASA-TM-X-67409. ESRO-SN-116. NTIS
- 530 72 064 PHARO MW SCOTT LR
OBSERVATIONS OF THERMOSPHERIC ION COMPOSITION ABOVE WOLLOPS ISLAND DURING THE MARCH 7, 1970 SOLAR
ECLIPSE
N71-25736. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD., GODDARD SPACE FLIGHT
CENTER. 18P. NTIS
- 530 72 065 PHILBRICK CR
NEUTRAL COMPOSITION MEASUREMENTS OF THE MESOSPHERE AND LOWER THERMOSPHERE
AD-739 169. AIR FORCE CAMBRIDGE RESEARCH LABS., L.G. HANSCOM FIELD, MASS. 19P. NTIS
- 530 72 066 POLYAKOV VM SHCHUKINA TB
1. DIFFUSION OF CHARGED PARTICLES IN THE F REGION OF THE IONOSPHERE. 2. NEUTRALIZATION OF THE
ELECTRON-ION GAS IN THE F REGION OF THE IONOSPHERE
1. PP 3-63. 64 REFERENCES. 2. PP 236-84. ISSLEDOVANIYE IONOSFERY. SOKOLOV, A.K. (ED.). IZDATEL'STVO
NAUKA SIBIRSKOE OTDELENIE, NOVOSIBIRSK, USSR, 1970 IN RUSSIAN
- 530 72 067 RIDLEY BA SCHIFF HI WELGE KH
MEASUREMENT OF NO IN STRATOSPHERE BY NO-O3 CHEMILUMINESCENCE
COM-72-1047. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1972
- 530 72 068 RISHBETH H BAUER P HANSON WB
MOLECULAR IONS IN F2 LAYER
PLANET. SPACE SCI., 20, 1287, 1972
- 530 72 069 SAGALYN RC AHMED M
THERMAL POSITIVE IONS IN THE OUTER IONOSPHERE AND MAGNETOSPHERE FROMOGO-1
AD-742 186. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 530 72 070 SAGAN C OWEN TC SMITH HJ
PLANETARY ATMOSPHERES. INTERNATIONAL ASTRONOMICAL UNION SYMPOSIUM NO. 40 HELD IN MARFA, TEXAS,
OCTOBER 26-31, 1969
BOOK, SPRINGER-VERLAG NEW YORK INC., NEW YORK, 1971. 421P. CONF-691069
- 530 72 071 SECHRIST CF GELLER MA
COSPAR SYMPOSIUM ON D AND E REGION ION CHEMISTRY: AN INFORMAL SYMPOSIUM RECORD, SYMPOSIUM HELD AT
UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN, JULY 6-8, 1971
UILLU-ENG-72-2503. AERONOMY REPORT NO. 48. ILLINOIS UNIV., URBANA, AERONOMY LAB., JUNE 1972. 459P
- 530 72 072 SHCHEPKIN LA KOSHELEV VV SHUYSKAYA ZI
EFFECT OF THE STATE OF THE ATMOSPHERE ON THE ION STRUCTURE OF THE IONOSPHERIC F1 REGION
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 451, 1971. TRANSLATED FROM GEOMAGN. AERON., 11, 532, 1971
- 530 72 073 SHEWANSKY DE DONAHUE TM ZIPF EC
1. DEACTIVATION OF N2 A(3)SIGMA(U) (+) MOLECULES IN THE AURORA. 2. N2 POSITIVE AND N2(+) BAND SYSTEMS
AND ENERGY SPECTRA OF AURORAL ELECTRONS
1. PLANET. SPACE SCI., 19, 1669, 1971. N71-34301. AD-734 434, 1971. 40P. 2. PLANET. SPACE SCI., 20,
905, 1972

- 530 72 074 SKOVLI G
POLAR IONOSPHERE AND MAGNETOSPHERIC PROCESSES. REVIEW PAPERS FROM 6TH NATO ADVANCED STUDY INSTITUTE.
APRIL 9 - 18, 1969. NORWAY
BOOK, GORDON AND BREACH, SCIENCE PUBLISHERS, INC., NEW YORK, 1970. 352P. 18 PAPERS
- 530 72 075 SOKOLOV AK
ISSLEDOVANIIE IONOSFERY. (STUDIES OF THE IONOSPHERE)
BOOK, IZDATEL'STVO NAUKA SIBIRSKOE OTDELENIE, NOVOSIBIRSK, USSR, 1970. 296P. 21 CHAPTERS IN RUSSIAN
- 530 72 076 STARKOVA AG
DIURNAL VARIATIONS OF STRUCTURAL PARAMETERS OF THE ATMOSPHERE AT HEIGHTS OF 100 TO 220 KM
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 87, 1971. TRANSLATED FROM GEOMAGN. AERON., 11, 110, 1971
- 530 72 077 STEWART AI
MARINER 6 AND 7 ULTRAVIOLET SPECTROMETER EXPERIMENT: IMPLICATIONS OF CO₂(+), CO, AND O AIRGLOW
J. GEOPHYS. RES., 77, 54, 1972
- 530 72 078 STUBBE P
1. EXPLAINING MAGNETIC STORM PHENOMENA IN THE UPPER ATMOSPHERE AND IONOSPHERE. 2. INFLUENCE OF
NEUTRAL WINDS ON THE NO(+) AND O₂(+) DENSITIES IN THE LOWER IONOSPHERE AT NIGHT
1. INDIAN J. PURE APPL. PHYS., 9, 542, 1971. FROM SYMPOSIUM ON IONOSPHERE-MAGNETOSPHERE
INTERACTIONS, NEW DELHI, INDIA, FEB. 1971. 2. J. ATMOS. TERREST. PHYS., 34, 519, 1972
- 530 72 079 SWIDER W
SOURCES FOR H₃C(+), (H₂O)N IONS IN THE D REGION. REPLY
AD-745 083, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 530 72 080 TAEUSCH DR CARIGNAN GR REBER CA
NEUTRAL COMPOSITION VARIATION ABOVE 400 KM DURING A MAGNETIC STORM
J. GEOPHYS. RES., 76, 8318, 1971
- 530 72 081 THOMAS RJ OONAHUE TM
ANALYSIS OF OGO-6 OBSERVATIONS OF O(II) 5577-TROPICAL NIGHTGLOW
J. GEOPHYS. RES., 77, 3557, 1972
- 530 72 082 TISONNE GC
MEASUREMENTS OF NO DENSITIES, O₂ DENSITIES, AND O₃ DENSITIES DURING SUNRISE AT KAUAI
SC-RR-720053, SANDIA LABS., ALBUQUERQUE, NEW MEXICO, JAN. 1972, 22P
- 530 72 083 TURCO RP
INVESTIGATION OF THE IONOSPHERIC D REGION AT SUNRISE
THESIS, UNIV. OF ILLINOIS, URBANA, 1971, 295P, UNIV. MICROFILMS ORDER NO. 71-21,255
- 530 72 084 ULWICK JC
ECLIPSE ROCKET MEASUREMENTS OF CHARGED PARTICLE CONCENTRATIONS
J. ATMOS. TERREST. PHYS., 34, 659, 1972
- 530 72 085 VERNIANI F
PHYSICS OF THE UPPER ATMOSPHERE. INTERNATIONAL SCHOOL OF ATMOSPHERIC PHYSICS. PROCEEDINGS OF THE 1ST
COURSE, ERICE, ITALY, JUNE 15 - 29, 1970
BOOK, EDITRICE COMPOSITORI, BOLOGNA, 1971, 480P. 16 PAPERS. CCNF-700669
- 530 72 086 VINOGRADOV AP VOLKOV VP (1) MAROV MY (3) SURKOV YA (3)
1. ON WOLLASTONITE EQUILIBRIUM AS A MECHANISM PROVIDING COMPOSITION OF VENUS ATMOSPHERE. 2. CHANGE
OF ATMOSPHERE UNDER INFLUENCE OF MAN'S ACTIVITY. 3. INVESTIGATION OF VENUS ATMOSPHERE BY SOVIET
AUTOMATIC STATIONS VENERA-4, VENERA-5, AND VENERA-6
GEOKHIMIYA, P755, 1971, AND P3 AND P387, 1972
- 530 72 087 VLASOV MN
VIBRATIONALLY EXCITED OXYGEN IN THE UPPER ATMOSPHERE
GEOMAGN. AERON. USSR (ENGL. TRANS.), 11, 426, 1971. TRANSLATED FROM GEOMAGN. AERON., 11, 504, 1971
- 530 72 088 VOLLAND H MAYR HG
THE PROBLEM OF UNIQUENESS IN THERMOSPHERE DYNAMICS
N72-15329, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 530 72 089 WHALEN BA MCDIARMID IB
FURTHER LOW ENERGY AURORAL ION COMPOSITION MEASUREMENTS
J. GEOPHYS. RES., 77, 1306, 1972
- 530 72 090 WHITE D
RESOURCE SATELLITES AND REMOTE AIRBORNE SENSING FOR CANADA. 3. ATMOSPHERIC CONSTITUENTS
N72-14365, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 530 72 091 WOFSY SC MCCONNEL JC MCELROY MB
ATMOSPHERIC CH₄, CO, AND CO₂
J. GEOPHYS. RES., 77, 4477, 1972
- 530 72 092 YAICHNIKOV AP
EXPERIMENTAL EVIDENCE OF H(+), HE(+), AND O(+) ION CURRENTS IN THE EXOSPHERE
COSMIC RES. USSR (ENGL. TRANS.), 9, 282, 1971. TRANSLATED FROM KOSM. ISSLEDO., 9, 307, 1971
- 530 72 093 ZHLUD'KO AD TULINOV GF KLYUEVA NM CHASOVITIN YK
ION COMPOSITION OF THE POLAR IONOSPHERE
GEOMAGN. AERON. USSR (ENGL. TRANS.), 10, 586, 1970. TRANSLATED FROM GEOMAGN. AERON., 10, 741, 1970
- 530 72 094 ZIPF EC BORST WL OONAHUE TM
MASS SPECTROMETER OBSERVATION OF ND IN AN AURORAL ARC
N71-18997, PITTSBURGH UNIV., PA., DEPT. OF PHYSICS, JULY 1970. NASA-CR-116877, SRCC-133, NTIS
- 535 72 001 BAECK U REICH G
COMPARISON OF THE PRESSURE INDICATION OF A BAYARD-ALPERT AND AN EXTRACTOR GAGE
J. VAC. SCI. TECHNOL., 9, 126, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 535 72 002 BERMAN A HAUSMAN I ROTH A
ANALYSIS OF THE LIMITATIONS OF OUTGASSING RATE MEASUREMENTS BY THE VARIABLE CONDUCTANCE METHOD
IA-1236, ISRAEL ATOMIC ENERGY COMMISSION, TEL AVIV, OCT. 1971, 34P

- 535 72 003 BERMAN AS
INTERNAL RAREFIED GAS FLOWS WITH BACKSCATTERING. 2. FREE MOLECULE FLOW THROUGH FINITE CAPILLARIES.
3. KRAMER'S PROBLEM: THE EFFECT OF BACKSCATTERING ON SLIP
K-1798 (PT.2) AND (PT.3). 15P AND 7P. DAK RIDGE GASEOUS DIFFUSION PLANT, TENN., JUNE 1971. NTIS
- 535 72 004 BRITE DW
VACUUM DEGASSING OF NUCLEAR FUEL
BNWL-SA-4404. BATTTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH., SEPT. 1972. 7P. CONF-720945-1.
NTIS. FROM ANNUAL SYMPOSIUM OF PACIFIC NORTHWEST SECTION, AMERICAN VACUUM SOCIETY, VANCOUVER, B.C.
.. CANADA. SEPT. 8, 1972
- 535 72 005 COMSA G
1. BEHAVIOR OF IONS IN A BAG STRUCTURE. 2. ION COLLECTION IN BAYARD-ALPERT GAGES
1. J. VAC. SCI. TECHNOL., 8, 582, 1971. 2. J. VAC. SCI. TECHNOL., 9, 117, 1972. FROM 5TH
INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 535 72 006 DOLBILLOV GV SARANTSEV VP SUMBAEV AP
SOME SPECIFIC FEATURES OF THE COLD CATHODE OPERATING AT LOW PRESSURES
JINR-P9-5753. JOINT INST. FOR NUCLEAR RESEARCH, DUBNA, USSR, 1971. 24P IN RUSSIAN. NTIS
- 535 72 007 EMONS AJ HAGEMANS KL
USE OF A FIELD ELECTRON EMITTER AS A PRESSURE INDICATOR IN ULTRAHIGH VACUUM
J. VAC. SCI. TECHNOL., 9, 112, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 535 72 008 FITCH RK RUSHTON GJ
ELECTRON-ORBIT ION GAUGE: AN ULTRAHIGH VACUUM GAUGE
VACUUM, 21, 453, 1971
- 535 72 009 FREMEREY JK
HIGH VACUUM GAS FRICTION MANOMETER
J. VAC. SCI. TECHNOL., 9, 108, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 535 72 010 GRISHIN SF GRISHINA EY
CALIBRATION OF PRESSURE GAGES DOWN TO 10(TO-15) MM HG BY MEANS OF AN IDEAL CONDENSATION PUMP
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1199, 1972. TRANSLATED FROM ZH. TEKH. FIZ., 41, 1528,
1971
- 535 72 011 GULYAEV MA ERYUKHIN AV
DEVELOPMENT OF MASTER INSTRUMENTS FOR MEASURING TOTAL AND PARTIAL PRESSURES IN HIGH AND ULTRAHIGH
VACUUM REGIONS
MEAS. TECH. USSR (ENGL. TRANS.), 14, 1662, 1971
- 535 72 012 HAMMOND DP RIVIERE AC
HOT CATHODE IONIZATION GAUGES FOR USE IN A MAGNETIC FIELD
J. PHYS. E, 4, 650, 1971
- 535 72 013 KENJALL BK
BROWNIAN MOTION: POSSIBLE BASIS FOR AN ULTRASENSITIVE VACUUM GAUGE
VACUUM, 20, 540, 1970
- 535 72 014 LAFFERTY JM
REVIEW OF PRESSURE MEASUREMENT TECHNIQUES FOR ULTRAHIGH VACUA
J. VAC. SCI. TECHNOL., 9, 101, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11,
1971
- 535 72 015 LEFEVRE
ULTRAHIGH VACUUM METROLOGY: 1. DESCRIPTION OF A CALIBRATION UNIT AND THE MEANS OF MEASUREMENT
EMPLOYED. 2. DESCRIPTION OF A CALIBRATION BENCH AND THE ASSOCIATED MEASURING EQUIPMENT
BULL. INFORM. BUR. NAT. METROL., 2, NO. 3, 8, 1971 AND NO. 4, 7, 1971 IN FRENCH
- 535 72 016 NOWAK EJ
IONIZATION GAUGE CHARACTERISTICS OF THE SA1463 TRIODE ELECTRON TUBE AND EFFECTS OF INTERNAL GAS
PRESSURE ON PULSE EMISSION AND ARCING
SC-DR-720459. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, SEPT. 1972, 32P, NTIS
- 535 72 017 RASSKOPF R LIEBL H BLAUTH EW
DOUBLE CHAMBER PARTIAL PRESSURE GAUGE
J. VAC. SCI. TECHNOL., 9, 492, 1972
- 535 72 018 RUEDENAU FG
GAS SCATTERING AS A LIMIT TO PARTIAL PRESSURE SENSITIVITY
J. VAC. SCI. TECHNOL., 9, 215, 1972
- 535 72 019 STECKELMACHER W FLETCHER B
1. SOME RECENT DEVELOPMENTS IN LOW PRESSURE MEASUREMENTS USING EXTERNAL COLLECTOR IONIZATION GAUGES.
2. EXTENSION OF RANGE OF THERMAL CONDUCTIVITY VACUUM GAUGE TO ATMOSPHERIC PRESSURE BY NATURAL
CONVECTION
1. J. VAC. SCI. TECHNOL., 9, 128, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT.
11, 1971. 2. J. PHYS. E, 5, 405, 1972
- 535 72 020 SZKEMIN PJ
1. INFLUENCE OF THE GRID AND ION COLLECTOR DIAMETERS ON THE SENSITIVITY FACTOR AND THE MEASURING
RANGE OF THE BAYARD-ALPERT GAGE. 2. BEHAVIOR OF THE BAYARD-ALPERT GAGE WITH GAGE MODULATOR
OPERATING WITHOUT ELECTRON CURRENT
1. BULL. ACAD. POL. SCI., SER. SCI. TECH., 19, 839, 1971. 2. J. VAC. SCI. TECHNOL., 9, 122, 1972.
FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 540 72 001 ADLOFF JP
RADIOCHEMICAL INVESTIGATIONS ON NOBLE GAS COMPOUNDS
ANGEW. CHEM. INT. ED. ENGL., 11, 61, 1972
- 540 72 002 AFANAS'EV AM KALYAZIN EP
1. INFLUENCE OF TEMPERATURE ON THE GAMMA RADIOLYSIS OF LIQUID N-PROPANOL. 2. COMPOSITION OF PRODUCTS
OF N-PROPANOL AND ISO-PROPANOL RADIOLYSIS
VESTN. MOSK. UNIV., SER. II, KHIM., 12, 731, 1971 AND 13, 95, 1972 IN RUSSIAN
- 540 72 003 ASKEW WC WARD CH HARDIE FW PARKER RR MADUSKAR KD
SYNTHESIS, IDENTIFICATION, AND PURIFICATION OF C6 AND C7 FLUOROCARBONS FROM RADIOLYSIS
ORO-3909-3. FINAL REPORT. AUBURN UNIV., ALA., DEPT. OF CHEMICAL ENGINEERING, DEC. 1971. 84P. NTIS

- 540 72 004 BALLENEGGER M RUF A GAEUMANN T
RADIATION CHEMISTRY OF HYDROCARBONS. 19. DEUTERIUM ABSTRACTION IN ISOTOPE ISOMERS OF CYCLOHEXANE
HELV. CHIM. ACTA. 54. 1373. 1971 IN GERMAN
- 540 72 005 BANSAL KM FREEMAN GR (1) RZAD SJ (2)
1. RADIATION INDUCED CHAIN REACTIONS. 2. RADIOLYSIS OF LIQUID 2,2,4-TRIMETHYLPENTANE. EFFECT OF
CHARGE SCAVENGERS ON PRODUCT FORMATION
RADIAT. RES. REV., 3. 209. 1971. 206 REFERENCES. AND J. PHYS. CHEM., 76. 2381. 1972
- 540 72 006 BELOVA VV PRIDACHINA NN POPOVA AI SERENKOV VI
RADIOLYSIS OF POLYSILOXANE RESIN
PLAST. MASSY. NO. 3. 24. 1971 IN RUSSIAN
- 540 72 007 BLAIS J GITTON B COTTIN M
DETERMINATION DES MECANISMES PRIMAIRES DE LA RADIOLYSE DE L'HYDRAZINE EN PHASE GAZEUSE
INT. J. RADIAT. PHYS. CHEM., 4. 369. 1972
- 540 72 008 BOSSY JM
RADIOLYSIS OF BROMOBENZENE
NP-19136. THESIS. EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH, SWITZERLAND. 1970. 125P IN GERMAN.
NTIS. DISS. NR. 4490
- 540 72 009 BOYD AW WILLIS C MILLER OA (1) LALOR GC (2)
1. REEXAMINATION OF THE YIELDS IN THE HIGH DOSE RATE RADIOLYSIS OF GASEOUS AMMONIA. 2. ISOTOPE
EFFECTS AND HYDROGEN YIELDS IN RADIOLYSIS OF H₂O-D₂O MIXTURES AT VERY HIGH DOSE RATES
CAN. J. CHEM., 49. 2283. 1971. AECL-3894. AND CAN. J. CHEM., 50. 83. 1972
- 540 72 010 BRIGGS JP BACK RA
EFFECT OF ELECTRIC FIELDS ON THE RADIOLYSIS OF ACETYLENE, AND THE MECHANISM OF CUPRENE FORMATION
CAN. J. CHEM., 49. 3789. 1971
- 540 72 011 BUGAENKO LT ZADOR E BELEVSKII VN GCLUBEV VB
ISOTOPIC EFFECT DURING THE RADIOLYSIS OF FROZEN AQUEOUS SOLUTIONS OF ACIDS
HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 4. 421. 1970. TRANSLATED FROM KHIM. VYS. ENERG., 4. 468. 1970
- 540 72 012 BURTON M MAGEE JL
ADVANCES IN RADIATION CHEMISTRY. VOLUME 2
BOOK. JOHN WILEY AND SONS INC., NEW YORK. 1970. 417P. 883 REFERENCES
- 540 72 013 CHANG C
RADIATION CHEMISTRY OF HEXAFLUOROACETONE IN THE GAS PHASE
THESIS. UNIV. OF FLORIDA, GAINESVILLE. 1970. 168P. UNIV. MICROFILMS ORDER NO. 71-24.415
- 540 72 014 COHEN SG
EFFECTS OF MERCAPTANS AND DISULFIDES ON PHOTOCHEMICAL AND HIGH ENERGY RADIATION INDUCED REACTIONS
NYO-2499-36. PROGRESS REPORT. BRANDEIS UNIV., WALTHAM, MASS., DEPT. OF CHEMISTRY. NOV. 1971. 15P.
NTIS
- 540 72 015 CSEREP G FOLDIAK G (1) REITBERGER T (2)
1. DIRECTING EFFECT OF PI-BONDS ON THE RADIOLYSIS OF SEVERAL MONOALKENES. 2. GASEOUS PRODUCTS ON THE
IRRADIATION OF METHYLCYCLOHEXENES
IZOTOPTEKHNIKA, 14. NO. 7-8. 318. 1971 IN HUNGARIAN, AND RADIOCHEM. RADIOANAL. LTRS. 8. NO. 6. 333.
1971
- 540 72 016 DAVID C FULD D GEUSKENS G
RADIOLYSIS OF POLYMETHYLMETHACRYLATE IN THE PRESENCE OF ETHYLMERCAPTAN. 1. MAIN CHAIN SCISSION AND
VOLATILE PRODUCTS FORMATION
MAKROMOL. CHEM., 139. 269. 1970
- 540 72 017 DIDYK RI KARAVAN YV STASYUK ZV TSAL NA
MASS SPECTROMETRIC INVESTIGATION OF THE RADIOLYSIS OF NaCl CRYSTALS
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 12. 2951. 1971. TRANSLATED FROM FIZ. TVERD. TELA. 12. 3629.
1970
- 540 72 018 DONDOS S HARTECK P CARR T HASKELL R
STUDY OF THE PULSE RADIOLYSIS OF GASES
COO-3461-1. FINAL REPORT. RENSSELAER POLYTECHNIC INST., TROY, N.Y., SEPT. 1972. 25P. NTIS
- 540 72 019 DRAGANIC IG DRAGANIC ZD
RADIATION CHEMISTRY OF WATER
BOOK. ACADEMIC PRESS INC., NEW YORK. 1971. 254P. PHYSICAL CHEMISTRY. VOL. 26. A SERIES OF MONOGRAPHS
- 540 72 020 OZANTIEV BG LOMAKO LT (1) UNUKOVICH MS (2) SHISHKOV AV (2,3) PAVLOVA SU (3)
1. RADIOLYSIS OF PROPYLENE AND ETHYLENE. 2. ENERGY TRANSFER IN THE RADIOLYSIS OF MIXTURES OF
HYDROGEN SULFIDE AND ETHYLENE. 3. RADIOLYSIS OF THE PROPYLENE-NITROGEN SYSTEM. FORMATION OF
NITRILES
1. VESTSI AKAD. NAVUK BELARUS. SSR. SER. FIZ.-ENERG. NAVUK. NC. 1. 27-36. 1968 IN RUSSIAN (PP 103-12
OF NP-19127). 2. HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5. 150. 1971. TRANSLATED FROM KHIM. VYS.
ENERG., 5. 172. 1971. 3. HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5. 152. 1971. TRANSLATED FROM
KHIM. VYS. ENERG., 5. 173. 1971
- 540 72 021 EGOROV GF DMITRIEVA GV ZAGORETS PA
RADIOLYSIS OF MONOOCTYLAMINE
HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5. 419. 1971. TRANSLATED FROM KHIM. VYS. ENERG., 5. 468. 1971
- 540 72 022 ELAD D SALOMON J
ULTRAVIOLET AND RADIATION INDUCED REACTIONS OF CAFFEINE WITH AMINES
TETRAHEDRON LTRS. P4783. 1971
- 540 72 023 FALCONER WE SUNDER WA WALKER LG
OLEFIN FORMATION IN THE RADIOLYSIS OF N-HEXADECANE
CAN. J. CHEM., 49. 3892. 1971
- 540 72 024 FINNEY CD MOSER HC
LOW ENERGY ELECTRON RADIOLYSIS OF METHANE
J. PHYS. CHEM., 75. 2405. 1971
- 540 72 025 FIRESTONE RF
KINETIC ISOTOPE EFFECTS IN THE RADIOLYSIS OF WATER VAPOR AND IN THE REACTIONS OF HYDROGEN ATOMS WITH
WATER VAPOR
COO-1116-20(Pt.2). TECHNICAL PROGRESS REPORT. PART 11A. SEPT. 1971 - JULY 1972. OHIO STATE UNIV.
RESEARCH FOUNDATION, COLUMBUS. JULY 1972. 19P. NTIS

- 540 72 026 FITI M
UNSTABLE INTERMEDIATES. PHYSICAL AND CHEMICAL PROPERTIES
STUD. CERCET. CHIM., 19. NO. 3, 263-82, 1971 IN RUMANIAN, 110 REFERENCES
- 540 72 027 FOLDIAK G WOJNAROVITS L (1) STENGER V (3) JAKAB A (3)
1. RADIATION CHEMISTRY OF SATURATED-UNSATURATED HYDROCARBON SYSTEMS. IV. THE EFFECT OF CYCLIC
STRUCTURE ON THE RADIATION-CHEMICAL HYDROGEN EVOLUTION FROM HYDROCARBONS WITH 5 TO 8 CARBON ATOMS.
2. EFFECT OF CHEMICAL STRUCTURE ON THE RADIATION CHEMICAL YIELD OF HYDROCARBONS. 3. RADIATION
CHEMICAL ALKYLATION OF ETHYLENE
ACTA CHIM. ACAD. SCI. HUNG., 70, 23, 1971. AND IZOTOPTÉCHNIKA, 14, 314 AND 342, 1971 IN HUNGARIAN
- 540 72 028 FORYS M NIGDAL E
1. RADIOLYSIS OF HYDROGEN SELENIDE IN THE GAS PHASE. 2. RADIOLYSIS OF HYDROGEN SULFIDE IN THE GAS
PHASE: RADIATION YIELD OF ATOMIC HYDROGEN. 3. ELECTRON SCAVENGING IN THE RADIOLYSIS OF MIXTURES
CONTAINING HYDROGEN SULFIDE
1 AND 2. HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 5, 199 AND 204, 1971. TRANSLATED FROM KHIM. VYS.
ENERG., 5, 223 AND 228, 1971. 3. RADIOCHEM. RADIOANAL. LTRS, 7, NO. 3, 181, 1971
- 540 72 029 FREEMAN GR
PROGRESS AND PROBLEMS IN THE RADIOLYSIS OF ALCOHOLS
PP 479-521 OF CONF-700652 (VOL. 3), FROM 10TH MEETING ON RADIATION CHEMISTRY, MARIANSKE LAZNE,
CZECHOSLOVAKIA, JUNE 22, 1970. IN PROGRESS AND PROBLEMS IN CONTEMPORARY RADIATION CHEMISTRY
- 540 72 030 FUJITA I HATADA M OGAWA T HIROTA K
EMISSION SPECTRA OF HYDROGEN ATOMS PRODUCED FROM METHANOL BY ELECTRON IMPACT
BULL. CHEM. SOC. JAPAN, 44, 1751, 1971
- 540 72 031 FUDCHI PG FREEMAN GR
MOLECULAR STRUCTURE EFFECTS ON FREE ION YIELDS AND REACTION KINETICS IN RADIOLYSIS OF METHYL
SUBSTITUTED PROPANES AND LIQUID ARGON. ELECTRON AND ION MOBILITIES
J. CHEM. PHYS., 56, 2333, 1972
- 540 72 032 GAWLOWSKI J NIEDZIELSKI J SOBKOWSKI J (2) ZECHOWSKA A (2)
1. EVIDENCE FOR THE FORMATION OF METHANE BY THE DISSOCIATION OF EXCITED BUTYL IONS IN THE RADIOLYSIS
OF ETHYLENE. 2. EFFECT OF DOSE ON THE RADIOLYSIS OF GASEOUS ETHYLENE
RADIOCHEM. RADIOANAL. LTRS, 6, 345, 1971 AND RADIAT. EFF., 11, NO. 2, 85, 1971
- 540 72 033 GORDEN R AUSLOOS P
SOLID PHASE PHOTOLYSIS AND RADIOLYSIS OF ETHYLENE AT 20 TO 77 DEGREES K
J. RES. NAT. BUR. STAND., 75A, NO. 3, 141, 1971
- 540 72 034 GRACHOVA TA MAKAROV VI POLAK LS AVDONINA EN
MECHANISM OF CYCLOHEXANE RING SCISSION IN RADIOLYSIS
RADIAT. EFF., 10, NO. 3, 157, 1971
- 540 72 035 GREENSHIELDS H SEDDON WA
PULSE RADIOLYSIS. A COMPREHENSIVE BIBLIOGRAPHY, APRIL 1969 - DECEMBER 1970
AECL-4066. ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO, CHALK RIVER NUCLEAR LABS., AUG. 1972.
46P. NTIS AND AECL
- 540 72 036 GRIMISON A
GAMMA RADIOLYSIS OF HETEROCYCLIC MOLECULES
PRNC-150. PROGRESS REPORT NO. 5. PUERTO RICO NUCLEAR CENTER, MAYAGUEZ, JULY 1971. 21P. NTIS
- 540 72 037 GYORGY I HORVATH Z WOJNAROVITS L FOLDIAK G
INVESTIGATION OF RADIOLYSIS OF CYCLOALKANE, N-ALKANE, AND ISOALKANE MIXTURES
IZOTOPTÉCHNIKA, 14, 332, 1971 IN HUNGARIAN
- 540 72 038 HAMANQUE K OKAMOTO J TOKUNAGA O DANNO A SATO S
RADIOLYSIS OF THE MIXTURES OF AMMONIA AND HYDROCARBONS. 2. FORMATION OF HYDROGEN FROM THE MIXTURES
OF AMMONIA AND OLEFINS (ETHYLENE, PROPYLENE, AND BUTADIENE)
JAERI-M-4573. JAPAN ATOMIC ENERGY RESEARCH INST., TOKYO, SEPT. 1971. 14P IN JAPANESE. NTIS
- 540 72 039 HANRAHAN RJ
RADIATION CHEMISTRY OF HYDROCARBON AND ALKYL HALIDE SYSTEMS
ORD-3106-45. PROGRESS REPORT. AUGUST 1971 - AUGUST 1972. FLORIDA UNIV., GAINESVILLE, 1972. 17P. NTIS
- 540 72 040 HERLER M
MECHANISM OF THE RADIOLYSIS OF CYCLOHEXANE
ANGEW. CHEM. INT. ED. ENGL., 10, 420, 1971
- 540 72 041 HORVATH Z FOLDIAK G GRUBER L
EFFECT OF CYCLIC STRUCTURE ON RADIOLYTIC DECOMPOSITION OF GASEOUS HYDROCARBONS
IZOTOPTÉCHNIKA, 14, 324, 1971 IN HUNGARIAN
- 540 72 042 HUYTON DW WOODWARD TW
GAMMA RADIOLYSIS OF GASEOUS H₂S + S₂ MIXTURES
TRANS. FARADAY SOC., 67, 2989, 1971
- 540 72 043 IRIE M AOYAGI K HAYASHI K SCHMA J MIYAMAE T
INITIATION MECHANISM OF RADIATION INDUCED IONIC POLYMERIZATION OF ISOBUTENE STUDIED BY CYCLOTRON
RESONANCE
BULL. CHEM. SOC. JAPAN, 44, 2261, 1971
- 540 72 044 JEZIERSKA K
ALPHA RADIOLYSIS OF HYDROGEN SULPHIDE-RARE GAS MIXTURES
IZOTOPTÉCHNIKA, 10, NO. 3-0, 213, 1971
- 540 72 045 KHORANA S MERKEL PB HAMILL WH
ELECTRONIC PROCESSES IN ULTRAVIOLET AND PULSE IRRADIATED HALIDE ION SYSTEMS. EFFECT OF HEAVY ATOMS
J. CHEM. PHYS., 56, 2807, 1972
- 540 72 046 KLOSOVA E TEPLY J PRASIL Z
MECHANISMS OF HYDROGEN FORMATION IN THE RADIOLYSIS OF GASEOUS CH₃OH AND CD₃OH
INT. J. RADIAT. PHYS. CHEM., 2, 177, 1970
- 540 72 047 KOCHETKOV NK KUDRIASH LI CHLENOV MA
1,6-GLUCODIALDOSE AS ONE OF THE PRODUCTS OF D-GLUCOSO-6-PHOSPHATE RADIOLYSIS
DOKL. AKAD. NAUK SSSR, 202, 847, 1972 IN RUSSIAN

- 540 72 048 KROM J
ROLE OF IONS IN THE RADIOLYSIS OF HYDROCARBONS
PP 523-98 OF CONF-700652(VOL.3). FROM 10TH MEETING ON RADIATION CHEMISTRY, MARIANSKE LAZNE,
CZECHOSLOVAKIA, JUNE 22, 1970. IN PROGRESS AND PROBLEMS IN CONTEMPORARY RADIATION CHEMISTRY
- 540 72 049 LETELLIER PR NAWAR WW
1. RADIOLYSIS OF TRICAPROIN. 2. PRIMARY RADIOLYTIC FRAGMENTATION IN TRICAPROIN
1. THE SIS. UNIV. OF MASSACHUSETTS, AMHERST, 1971. 184P. UNIV. MICROFILMS ORDER NO. 72-4046. 2. J.
AGR. FOOD CHEM., 20, 129, 1972
- 540 72 050 MAHADEVA IYER R
EXPERIMENTAL TECHNIQUES
PP 109-14 OF PROCEEDINGS OF THE SYMPOSIUM ON RADIATION CHEMISTRY, BHABHA ATOMIC RESEARCH CENTRE,
BOMBAY, 1970. FROM SYMPOSIUM, TROMBAY, INDIA, FEB. 7, 1970. BARC-489, CONF-700214
- 540 72 051 MERRITT C
QUALITATIVE AND QUANTITATIVE ASPECTS OF TRACE VOLATILE COMPONENTS IN IRRADIATED FOODS AND FOOD
SUBSTANCES
RADIAT. RES. REV., 3, 353, 1972
- 540 72 052 MESHCHERYAKOV NA
RADIOLYSIS AND PYROLYSIS OF THE SIMPLEST ORGANOSILICON COMPOUNDS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 473, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 852, 1971
- 540 72 053 MITTAL JP
SECONDARY PROCESSES IN RADIATION CHEMISTRY
PP 41-68 OF PROCEEDINGS OF THE SYMPOSIUM ON RADIATION CHEMISTRY, BHABHA ATOMIC RESEARCH CENTRE,
BOMBAY, 1970. FROM SYMPOSIUM, TROMBAY, INDIA, FEB. 7, 1970. BARC-489, CONF-700214
- 540 72 054 NAKAMURA K TAKAMUKU, S SAKURAI, M
GAS PHASE RADIOLYSIS OF CYCLOHEPTATRIENE
BULL. CHEM. SOC. JAPAN, 44, 2090, 1971
- 540 72 055 NEWLAND EA
PULSE RADIOLYSIS OF STYRENE. A BIBLIOGRAPHY (1957 - 1971)
AAEC/LB/18-315. AUSTRALIAN ATOMIC ENERGY COMMISSION RESEARCH ESTABLISHMENT, LUCAS HEIGHTS, SEPT.
1971. 7P. 62 REFERENCES
- 540 72 056 NIEDZIELSKI J GAWLOWSKI J
1. EFFECT OF SOME OXYGEN CONTAINING COMPOUNDS ON THE RADIOLYSIS OF GASEOUS ETHYLENE. 2. GAMMA
RADIOLYSIS OF GASEOUS ETHYLENE IN THE PRESENCE OF ISOBUTYLENE
NUKLEONIKA, 16, 143, 1971 AND RADIAT. EFF., 10, 1, 1971
- 540 72 057 NO AUTHOR
1. SECOND INTER-AMERICAN CONFERENCE ON RADIOCHEMISTRY, MEXICO CITY, MEXICO, APRIL 22 - 25, 1968. 2.
PROCEEDINGS OF THE SYMPOSIUM ON RADIATION CHEMISTRY, TROMBAY, FEBRUARY 7, 1970
1. CONF-680423, COMISION INTERAMERICANA DE ENERGIA NUCLEAR, 1971. 330P IN SEVERAL LANGUAGES.
ORGANIZACION DE LOS ESTADOS AMERICANOS, WASHINGTON, D.C. 38 PAPERS. 2. BARC-489, BHABHA ATOMIC
RESEARCH CENTRE, BOMBAY, INDIA, 1970. 171P. CONF-700214. 19 PAPERS
- 540 72 058 OLSEN KJ
RADIOLYSIS OF BENZENE VAPOUR BY LOW ENERGY HEAVY IONS
TRANS. FARADAY SOC., 67, 2050, 1971
- 540 72 059 RAMA RAD KVS MOORTHY PN
PRIMARY PROCESSES IN RADIATION CHEMISTRY

PP 9-27 OF PROCEEDINGS OF THE SYMPOSIUM ON RADIATION CHEMISTRY, BHABHA ATOMIC RESEARCH CENTRE,
BOMBAY, 1970. FROM SYMPOSIUM, TROMBAY, INDIA, FEB. 7, 1970. BARC-489, CONF-700214
- 540 72 060 REBBERT RE AUSLOOS P
PULSE RADIOLYSIS OF NEOPENTANE IN THE GAS PHASE
J. RES. NAT. BUR. STAND., 76A, 329, 1972
- 540 72 061 REED PR
RADIATION CHEMISTRY OF GASEOUS METHANE
THESIS, PURDUE UNIV., LAFAYETTE, IND., 1971. 227P. UNIV. MICROFILMS ORDER NO. 72-8016
- 540 72 062 REYES LUJAN J
RADIOLYSIS OF PETROLEUM PRODUCTS
1. PP 126-34 OF CONF-680423. FROM 2ND INTER-AMERICAN CONFERENCE ON RADIOCHEMISTRY, MEXICO CITY,
MEXICO, APRIL 22, 1968. IN SPANISH. 2. REV. MEX. FIS., 19, FA1-40, 1970 IN SPANISH
- 540 72 063 RINK H
RADIOLYSIS OF WATER
CHEM. UNSERER ZEIT., 5, NO. 3, 90, 1971 IN GERMAN
- 540 72 064 RÖDER M
RADIOLYSIS OF HYDROCARBON MIXTURES
IZOTOPTEKHNIKA, 14, 337, 1971 IN HUNGARIAN
- 540 72 065 RZAD SJ BANSAL KM
RADIOLYSIS OF LIQUID 2,2,4-TRIMETHYLPENTANE. KINETICS OF SCAVENGING PROCESSES
J. PHYS. CHEM., 76, 2374, 1972
- 540 72 066 SAKAI T HAMILL WH
VISCOSITY DEPENDENT RATE OF ION RECOMBINATION FOLLOWING PULSE IRRADIATION
J. CHEM. PHYS., 56, 5524, 1972
- 540 72 067 SKURAT VE
EVALUATION OF THE RADIOLYTIC YIELD OF HOT HYDROGEN ATOMS FROM THE RADIOLYSIS OF HYDROGEN CONTAINING
MOLECULES
HIGH ENERGY CHEM. USSR (ENGL. TRANS.), 4, 370, 1970. TRANSLATED FROM KHIM. VYS. ENERG., 4, 413, 1970
- 540 72 068 SMEETS J
IDENTIFICATION OF IRRADIATED FOODSTUFFS. PROCEEDINGS OF A COLLOQUIUM, LUXEMBOURG, OCTOBER 27, 1970
EUR-4695. EUROPEAN COMMUNITIES, LUXEMBOURG, COMMISSION, 170P IN SEVERAL LANGUAGES. CONF-701068. 13
PAPERS
- 540 72 069 STEINMAUS H ROSENTHAL I ELAD D
LIGHT AND GAMMA-RAY INDUCED REACTIONS OF PURINES AND PURINE NUCLEOSIDES WITH ALCOHOLS
J. ORG. CHEM., 36, 3594, 1971

- 540 72 070 TAKAMUKU S ISEDA K SAKURAI H
STRUCTURE AND REACTIVITY OF ORGANIC IONS IN GAS PHASE RADIOLYSIS. 2. THE REACTIONS OF AN ISOPROPYL
ION WITH BENZENE AND TOLUENE
JACS. 93. 2420. 1971
- 540 72 071 TAKAO S HATANO Y SHIDA S
GAS PHASE RADIOLYSIS OF NITROUS OXIDE. THE EFFECT OF THE ADDITION OF SEVERAL HYDROCARBONS
J. PHYS. CHEM.. 75. 3178. 1971
- 540 72 072 TANAKA J HATANO Y SHIDA S
GAS PHASE RADIOLYSIS OF CYCLOPROPANE
BULL. CHEM. SOC. JAPAN. 44. 2860. 1971
- 540 72 073 TANNY GB SAINT PIERRE LE
RADIATION CHEMISTRY OF OCTAMETHYLTRISILOXANE
J. PHYS. CHEM.. 75. 2430. 1971
- 540 72 074 TOKUNAGA O HAMANOUE K OKAMOTO J DANNO A SATO S
RADIOLYSIS OF THE MIXTURE OF UNSATURATED HYDROCARBON AND AMMONIA. 1. FORMATION OF ETHYLAMINE FROM
THE MIXTURE OF ETHYLENE AND AMMONIA
JAERI-MEMO-4487. JAPAN ATOMIC ENERGY RESEARCH INST., TOKYO. JUNE 1971. 13P. IN JAPANESE AND ENGLISH.
NTIS
- 540 72 075 TOMINAGA T
HOT-ATOM CHEMISTRY OF GAS AND LIQUID PHASE SYSTEMS
RADIOISOTOPES (TOKYO). 20. NO. 3. 142. 1971 IN JAPANESE
- 540 72 076 TURCOTTE RP TINGEY GL
RADIOLYSIS OF HELIUM DILUTED MIXTURES OF CARBON MONOXIDE AND WATER VAPOR
BNWL-1664. BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH.. JUNE 1972. 24P. NTIS
- 540 72 077 VENTER PJ VANDERLI HJ BASSON RA
CHAIN FORMATION OF ACETALDEHYDE IN GAMMA RADIOLYSIS OF DEAERATED ETHYLENE GLYCOL
J. CHEM. SOC., CHEM. COMMUN., P187. 1972
- 540 72 078 VOIGT AF PALINO GF WILLIAMS RL
REACTIONS OF RECOIL CARBON ATOMS WITH OXYGEN CONTAINING MOLECULES. 2. STRUCTURAL DEPENDENCE OF
CARBON MONOXIDE YIELDS
J. PHYS. CHEM.. 75. 2248. 1971
- 540 72 079 WEI LY BONE LT
EFFECT OF POSITIVE ION SCAVENGING BY BENZENE IN RADIOLYSIS OF PROPANE
J. PHYS. CHEM.. 75. 2272. 1971
- 540 72 080 WILLIS C BOYD AW MILLER OA
RADIOLYSIS OF HYDROGEN SULFIDE AT VERY HIGH DOSE RATES. THE EFFECT OF SF₆
CAN. J. CHEM.. 49. 1677. 1971. AECL-3848
- 540 72 081 WILSON MW SCOTT WM
MASS SPECTROMETRY IN RADIATION CHEMISTRY MEASUREMENTS
PP 465-9 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD. 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8. 1969
- 540 72 082 WDJNAROVITS L FOLDIAK G
EFFECT OF CYCLIC STRUCTURE ON THE RADIATION CHEMICAL DECOMPOSITION OF HYDROCARBONS
IZOTOPTEKHNIKA. 14. 328. 1971 IN HUNGARIAN
- 540 72 083 WRIGHT JR
RADIATION CHEMISTRY OF ICOSAHEDRAL CARBORANE CONDENSED PHASES: 1-VINYL AND 1-ISOPROPENYL D-CARBORANE
ORD-3781-8(P.T.). THESIS. MISSISSIPPI UNIV., UNIVERSITY. AUG. 1971. 104P. UNIV. MICROFILMS ORDER NO.
72-3939
- 540 72 084 YAMAMOTO Y TAKAMUKU S SAKURAI H
1. RARE GAS SENSITIZED RADIOLYSIS OF TOLUENE. 2. STRUCTURE AND REACTIVITY OF ORGANIC IONS IN GAS
PHASE RADIOLYSIS. III. BENZENONIUM IONS FORMED BY THE REACTIONS OF CH₅(+) AND C₂H₅(+) IONS FROM
METHANE WITH O-XYLENE. 3. STRUCTURE AND REACTIVITY OF ORGANIC IONS IN GAS PHASE RADIOLYSIS. V.
STRUCTURE AND FORMATION PROCESS OF THE C₇H₇(+) ION FROM TOLUENE
BULL. CHEM. SOC. JAPAN. 44. 2104. 1971. BULL. CHEM. SOC. JAPAN. 45. 255. 1972. AND JACS. 94. 661.
1972
- 540 72 085 ZIMIN AV VAINSHTEIN RI SHIFKIN YI
RADIATION SYNTHESIS OF PERFLUOROPHENYLCHLOROSILANES
HIGH ENERGY CHEM. USSR (ENGL. TRANS.). 4. 375. 1970. TRANSLATED FROM KHIM. VYS. ENERG.. 4. 419. 1970
- 545 72 001 BINSCH G ELIEL EL KESSLER H
NOMENCLATURE FOR INTRAMOLECULAR EXCHANGE PROCESSES
ANGEW. CHEM. INT. ED. ENGL.. 10. 570. 1971
- 545 72 002 DAUBEN WG FRIEDRICH LE (1,2) OBERMANS P (1) AOYAGI EI (3)
1. THUJOPSENE REARRANGEMENTS. CYCLOPROPYLCARBINYL SYSTEM. 2. THUJOPSENE REARRANGEMENTS. THE RING
SYSTEM VIA METHYL GROUP MIGRATION. 3. THUJOPSENE REARRANGEMENTS. THE RING SYSTEM VIA RING
CONTRACTION
J. ORG. CHEM.. 37. 9. 241. AND 251. 1972
- 545 72 003 DEWAR MJ SPANNING PA
MECHANISM OF REARRANGEMENT OF ALKYLPHENYL ETHERS CATALYSED BY ALUMINIUM BROMIDE
J. CHEM. SOC., PERKIN TRANS.. 11. P1204. 1972
- 545 72 004 GASSMAN WG CAMPBELL GA
THERMAL REARRANGEMENT OF N-CHLORDANILINES. EVIDENCE FOR INTERMEDIACY OF NITRENIUM IONS
JACS. 94. 3891. 1972
- 545 72 005 HARRISON RM
CLAISEN REARRANGEMENTS OF TROPOLONE ETHERS. I.
J. CHEM. SOC. C. P3084. 1971
- 545 72 006 LAI K MILLER B
REARRANGEMENTS IN POLYSUBSTITUTED CYCLOHEXADIENYL CARBONIUM IONS
TETRAHEDRON. 28. 2221. 1972

- 545 72 007 MARINO JP
TRANSFORMATIONS OF ARYLOXYSULFONIUM CATIONS. MECHANISM STUDIES AND CATALOGUE OF REARRANGEMENTS
TETRAHEDRON, 27, 4181, 1971
- 545 72 008 MEAKIN P MUETTER EL JESSON JP
INTRAMOLECULAR REARRANGEMENT MECHANISMS IN FIVE-COORDINATE COMPLEXES
JACS, 94, 5271, 1972
- 545 72 009 MODENA G RONZINI L
COMPETING METHOXIDE ION PROMOTED ELIMINATION PATHS IN 2-HALOGENO-1-P. NITROPHENYL PROPENES
CHIM. IND. (MILAN), 54, 617, 1972
- 545 72 010 SMITH J MCLAFFERTY FW
EVIDENCE FOR A STEPWISE MECHANISM FOR THE GAMMA-HYDROGEN REARRANGEMENT
AD-734 474. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 545 72 011 WAGENER KB
A NOVEL INTRAMOLECULAR REARRANGEMENT OF A 1,4 DIPOLE
J. ORG. CHEM., 37, 1454, 1972
- 550 72 001 ABERNATHEY RM MATLACK GM REIN JE
SEQUENTIAL ION EXCHANGE SEPARATION AND MASS SPECTROMETRIC DETERMINATION OF NEODYMIUM, URANIUM, AND
PLUTONIUM IN MIXED OXIDE FUELS FOR BURNUP AND ISOTOPIC DISTRIBUTION MEASUREMENTS
LA-DC-12810. LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, 1970, 13P. SM-149/37. CONF-711107-3. NTIS. FROM
SYMPOSIUM ON ANALYTICAL METHODS IN THE NUCLEAR FUEL CYCLE. VIENNA, AUSTRIA, NOVEMBER 29, 1971
- 550 72 002 ATWOOD K
DECOMPOSITION METHODS FOR THE PREPARATION OF SAMPLES FOR DEUTERIUM ANALYSIS ON THE NIER 2-3 MASS
SPECTROMETER
T-4-20-6-1. GIRDLER CORP., LOUISVILLE, KY., MARCH 28, 1951, 3CP
- 550 72 003 BAILEY SA SMITH JW
IMPROVED METHOD FOR THE PREPARATION OF SULFUR DIOXIDE FROM BARIUM SULFATE FOR ISOTOPE RATIO STUDIES
ANAL. CHEM., 44, 1542, 1972
- 550 72 004 BEHNE D
MULTIELEMENT SEPARATION FOR ACTIVATION ANALYSIS USING COUNTERCURRENT ELECTROLYSIS
PP 431-5 OF ACTIVATION ANALYSIS IN GEOCHEMISTRY AND COSMOCHEMISTRY. BRUNFELT, A.O. (ED.).
UNIVERSITETSFORLAGET, OSLO, 1971. FROM CONFERENCE. KJELLER, NORWAY, SEPT. 7, 1970. CONF-700968
- 550 72 005 BUEHLER RJ FLANIGAN E GREENE LJ
VOLATILITY ENHANCEMENT OF THYROTROPIN RELEASING HORMONE FOR MASS SPECTROMETRIC STUDIES
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 1082, 1972
- 550 72 006 COLEMAN ML
METHOD FOR SEPARATING TRACE QUANTITIES OF CALCIUM FROM MINERALS FOR MASS SPECTROMETRY
ANAL. CHIM. ACTA, 60, 426, 1972
- 550 72 007 DRAKE MJ WEILL DF
NEW RARE EARTH ELEMENT STANDARDS FOR ELECTRON MICROPROBE ANALYSIS
CHEM. GEOL., 10, 179, 1972
- 550 72 008 DUKE MB COMEAU RF
CLEAN LABORATORY FOR MINERALOGICAL AND GEOCHEMICAL STUDIES
U. S., GEOL. SURV., PROF. PAP., NO. 750-B, 207-10, 1971
- 550 72 009 FONG BJ SMITH SR TANAKA J
REEVALUATION OF THE PREPARATION OF ORGANIC COMPOUNDS FOR THE MASS SPECTROMETRIC ANALYSIS FOR D(18)
ANAL. CHEM., 44, 655, 1972
- 550 72 010 KAROL PJ
NEODYMIUM-SAMARIUM SEPARATIONS FOR GEOCHRONOLOGICAL APPLICATIONS
PP 21-5 OF NYO-844-84. CARNEGIE-MELLON UNIV., PITTSBURGH, PA., DEPT. OF CHEMISTRY. IN NUCLEAR
CHEMISTRY AND GEOCHEMISTRY RESEARCH
- 550 72 011 KRTEL J MORAVEC A BULOVIC V (1,2) MENCL J (2,3)
1. SEPARATION OF MOLYBDENUM BY SOLVENT EXTRACTION FROM FISSION PRODUCTS OF URANIUM FOR MASS
SPECTROMETRIC ANALYSIS. 2. SEPARATION OF THE STABLE ISOTOPES OF NEODYMIUM FROM IRRADIATED URANIUM
FOR BURNUP DETERMINATION. 3. ISOLATION OF ZIRCONIUM ISOTOPES FROM FISSION PRODUCTS FOR MASS
SPECTROMETRIC DETERMINATION
RADIOCHEM. RADIOANAL. LTRS, 9, 213, 1972, 9, 335, 1972, AND 10, 83, 1972
- 550 72 012 KUNCIR J BENADA J RANDA Z VOBECKY M
MULTIELEMENT STANDARD FOR ROUTINE INSTRUMENTAL ACTIVATION ANALYSIS OF TRACE ELEMENTS IN ROCKS AND
TECTITES
J. RADIOANAL. CHEM., 5, 369, 1970
- 550 72 013 LANGER K
SOME MAJOR AND MINOR CONSTITUENTS OF GEOCHEMICAL REFERENCE SAMPLES AS DETERMINED BY PHOTOMETRIC
METHODS
Z. ANAL. CHEM., 255, 26, 1971
- 550 72 014 LARSEN IL HARTMANN NA WAGNER JJ
ESTIMATING PRECISION FOR THE METHOD OF STANDARD ADDITIONS
RLO-2227-T-12-23. OREGON STATE UNIV., CORVALLIS, 1971, 13P. NTIS
- 550 72 015 LETOLLE R
SIMPLIFICATION DES TECHNIQUES DE PREPARATION DE CO2 ET SO2 EN VUE DE L'ANALYSE ISOTOPIQUE DU CARBONE
ORGANIQUE ET DU SOUFRE DES SULFURES
BULL. SOC. FR. MINER. CRIST., 94, 449, 1971
- 550 72 016 MATSUHISA Y MATSUBAYA O SAKAI M
BFB TECHNIQUE FOR THE OXYGEN ISOTOPIC ANALYSIS OF SILICATES AND WATER
MASS SPECTRY, JAPAN, 19, 124, 1971 IN JAPANESE
- 550 72 017 MIZUIKE A FUKUDA K OCHIAi Y
SOLID-LIQUID EXTRACTION AS A PRECONCENTRATION TECHNIQUE IN TRACE ELEMENT ANALYSIS. EXTRACTION OF
TRACE IMPURITIES FROM METAL CHLORIDES
TALANTA, 19, 527, 1972

- 550 72 018 MUSSETT AE
SIMPLE PROGRAMMER FOR AN RF INDUCTION HEATER, WITH PARTICULAR APPLICATION TO K-AR DATING
J. PHYS. E. 4. 329, 1971
- 550 72 019 NO AUTHOR
PREPARATION OF STANDARD SAMPLES: IMPURITIES IN PLUTONIUM OXIDE
CEA-R-4225. INSTITUT NATIONAL DES SCIENCES ET TECHNIQUES NUCLEAIRES, SACLAY, FRANCE. COMMISSION D'ESTABLISSEMENT DES METHODES D'ANALYSE, NOV. 1971. 23P IN FRENCH
- 550 72 020 SCHAAF M ROLLE W
EXPERIENCE GATHERED WITH REGARD TO THE TREATMENT OF AMMONIUM SALTS FOR MASS SPECTROMETRIC PRECISION
ANALYSIS OF NITROGEN-15 IN THE REGION OF NATURAL ISOTOPIC ABUNDANCE
ISOTOPENPRAKIS, 8. NO. 5. 170. 1972 IN RUSSIAN
- 550 72 021 SCHNEPPE G
PRODUCTION OF WELL KNOWN PRESSURES OF PURE AND MIXED GASES IN THE HIGH VACUUM RANGE
N69-27903. BONN UNIV., WEST GERMANY. PHYSIKALISCHES INST. 47P IN GERMAN. NTIS
- 550 72 022 SEIKE E ROHWEDDE W DUTTON H
A MICROMETHOD TO GENERATE AND COLLECT ODOR CONSTITUENTS FROM HEATED COOKING OILS
J. AMER. OIL CHEM. SOC., 49. 636, 1972
- 550 72 023 STOCH H SUMMERSON CD THERON M
PREPARATION AND ANALYSIS OF MINERALS FOR USE AS REFERENCE MATERIAL
NM-1322. PROGRESS REPORT NO. 1. NATIONAL INST. FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA, SEPT. 1971. 17P. NTIS
- 550 72 024 SUKHOVER VF USTINOV VI GRINENKO VA
QUANTITATIVE SEPARATION OF OXYGEN FOR ISOTOPIC ANALYSIS FROM NATURAL AND SYNTHETIC MATERIALS BY
MEANS OF HEXAFLUOROBROMOCESIUM COMPOUNDS
Zh. ANAL. KHIM., 26. 2166. 1971 IN RUSSIAN
- 550 72 025 WAHL WC TAFEL LL
BIBLIOGRAPHY ON ELECTRICAL DISCHARGE MACHINING AND ELECTROCHEMICAL MACHINING
WARD-331. BETTIS ATOMIC POWER LAB., PITTSBURGH, PA., SEPT. 1971. 215P. NTIS
- 550 72 026 WATSON PG ROWLANDS DLG
INERT ATMOSPHERE GLOVE BOX
AERE-R-6856. ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL, ENGLAND, NOV. 1971. 16P. NTIS
- 550 72 027 WEHIZ HJ
URANIUM ISOTOPIC WORKING STANDARDS
K-L-6301. OAK RIDGE GASEOUS DIFFUSION PLANT, TENN., SEPT. 1972. 5P. NTIS
- 550 72 028 WHARTON ORA BAZINET ML
CONCENTRATING FLASK FOR INTRODUCTION OF MICROSAMPLES TO A MASS SPECTROMETER VIA THE SOLIDS INSERTION
PROBE
ANAL. CHEM., 43. 623. 1971
- 550 72 029 WILLIS FL DICKERMAN CE AUGUST C DEWEY GG
DESIGN DESCRIPTION OF ANL NITROGEN GLOVEBOX
ANL-7885. ARGONNE NATIONAL LAB., ILL., NOV. 1971. 27P. NTIS
- 550 72 030 YTREHUS T SMOLDERE JJ WENDT JF
MIXING OF THERMAL MOLECULAR JETS PRODUCED FROM KNUDSEN EFFUSION
N72-11281. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 555 72 001 ALEX K MCLELLAN RB
STATISTICAL MECHANICAL CALCULATION OF THERMODYNAMIC PROPERTIES OF INTERSTITIAL SOLID SOLUTIONS
INVOLVING SECOND NEAREST NEIGHBOR INTERACTIONS
ACTA MET., 20. NO. 1. XXX. 1972
- 555 72 002 GLIKMAN YE BRUVER RE SARYCHEV KY
DETERMINING BINDING ENERGY OF IMPURITIES WITH GRAIN BOUNDARIES ON FORMATION OF EQUILIBRIUM
SEGREGATIONS IN ALLOYS
PHYS. METALS METALLOGR. USSR (ENGL. TRANS.), 30. 174. 1970
- 555 72 003 LIU CT INOUE H CARPENTER RW
SIMPLE METHOD OF DETERMINATION OF DISTRIBUTION AND SOLUBILITY LIMIT OF INTERSTITIALS IN
SUBSTITUTIONAL SOLID SOLUTIONS
J. LESS COMMON METALS, 25. 123. 1971
- 555 72 004 POTAPOV LP GOLOVIN BF SHIRYAEV PP
INVESTIGATION OF ATOMIC STRUCTURE OF GRAIN BOUNDARIES WITH FIELD-ION MICROSCOPE
FIZ. METAL. METALLOVED., 32. NO. 5. XXX. 1971 IN RUSSIAN
- 555 72 005 SCHLAEI F KOETHE A NEXER E
PROPERTIES OF SOLID SOLUTIONS OF INTERSTITIAL FOREIGN ATOMS IN VANADIUM, NIOBIUM, AND TANTALUM
SC-T-713084. TRANSLATION OF PP 240-53 FROM REPORT CONF-670222. 24P. NTIS
- 560 72 001 ALEKSANDROV AF ZOSIMOV VV RUKHADZE AA SAVOSKIN VI TIMOFEEV AA
THEORETICAL AND EXPERIMENTAL STUDIES OF DIRECT HIGH CURRENT DISCHARGES IN A VACUUM
NP-18972. AKADEMIYA NAUK SSSR, MOSCOW. INSTITUT FIZIKI, JUNE 1971. 51P IN RUSSIAN. TRANSLATED AS
AEC-TR-7369. BOTH AVAILABLE FROM NTIS
- 560 72 002 BACON FM GRISSOM JT MANGAN DL MCCLURE GW NEWTON JC
BIBLIOGRAPHY ON ARC DISCHARGES
SC-B-723233. SANDIA LABS., ALBUQUERQUE, NEW MEXICO, JUNE 1972. 163P. NTIS
- 560 72 003 BUGAEV SP PROSKURO DI ESKHENAZ VI
INSTALLATION FOR STUDYING THE ELECTRIC BREAKDOWN MECHANISM OF AN ULTRAHIGH VACUUM
AD-739 280. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1971
- 560 72 004 GUPTA A RAU RS
TRIGGERED VACUUM GAP FOR INITIATING ELECTRIC ARCS IN VACUUM
J. PHYS. E. S. 415. 1972

- 560 72 005 KRAFT VV STUCHENK VM
EFFECT OF NONMETALLIC INCLUSIONS AND FILMS ON CATHODE MICROSECTIONS OF VACUUM SPARK-OVER
ZH. TEKH. FIZ., 42, 88, 1972 IN RUSSIAN
- 560 72 006 KREMPL M
THERMODYNAMIC EQUILIBRIUM IN SPARK PLASMAS
SC-T-713054, TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO, FROM Z. PHYS., 167, 302, 1962.
35P, NTIS
- 560 72 007 LE GOFF F
STUDY OF A RF ELECTRICAL DISCHARGE IN A STREAM OF AROMATIC HYDROCARBON VAPOR AT LOW PRESSURE
FRNC-TH-157, THESIS, RENNES UNIV., FRANCE, 1971, 139P IN FRENCH, NTIS
- 560 72 008 MILLER HC
MEASUREMENT ON PARTICLE FLUXES FROM DC VACUUM ARCS SUBJECTED TO ARTIFICIAL CURRENT ZEROES
J. APPL. PHYS., 43, 2175, 1972
- 560 72 009 NAGAI BEK RB
IONIZATION AND ION CHARGE EXCHANGE IN CATHODE SPOT OF A VACUUM ARC
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1865, 1972
- 560 72 010 NO AUTHOR
GAS DISCHARGES, INTERNATIONAL CONFERENCE HELD IN LONDON, SEPTEMBER 15 - 18, 1970
BOOK, CONFERENCE PUBLICATION NO. 70, INSTITUTION OF ELECTRICAL ENGINEERS, LONDON, 1970, 599P, 122
PAPERS, CONF-700969
- 560 72 011 OWEN WD
ELECTRICAL BREAKDOWN IN VACUUM
AWRE-D-1/72, ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALOERMASTON, ENGLAND, JAN, 1972, 31P, NTIS
- 560 72 012 PROSKURO DI YURIKE YY
GROWTH OF SPARK CURRENT AT BREAKDOWN OF SHORT VACUUM GAPS AT CONSTANT VOLTAGE
IZV. VYSSH. UCHEB. ZAVED., FIZ., NO. 9, 93, 1971 IN RUSSIAN
- 560 72 013 ROHREACH F
ELECTRIC DISCHARGES IN VACUUM, INITIATION OF THE VACUUM ARC
REV. GEN. ELEC., 80, 577, 1971 IN FRENCH
- 560 72 014 SHAHIN MM
ELECTRICAL DISCHARGE PLASMAS
PP 285-328 OF REACTIONS UNDER PLASMA CONDITIONS, VOL. 1, VENUGOPALAN, M. (ED.), JOHN WILEY AND SONS
INC., NEW YORK, 1971, 51 REFERENCES
- 560 72 015 UTSUMI T
VACUUM ARCS AS VAPOR SOURCES
J. VAC. SCI. TECHNOL., 9, 37, 1972
- 560 72 016 VENKATASUBRAMAN VS RAJAGOPALAN PT
MASS SPECTROSCOPIC DIAGNOSTICS OF THE VACUUM ARC
PP 545-50 OF PROCEEDINGS OF THE NUCLEAR PHYSICS AND SOLID STATE PHYSICS SYMPOSIUM, VOL. II,
DEPARTMENT OF ATOMIC ENERGY, BOMBAY, 1970, FROM SYMPOSIUM, MADURAI, INDIA, DEC. 27, 1970,
CONF-701219(VOL.2)
- 560 72 017 WIENECKE R
ARC DISCHARGES IN STRONG MAGNETIC FIELDS
PP 687-93 OF PHYSICS OF IONIZED GASES, NAVINSEK, B. (ED.), INSTITUT JOZEF STEFAN, LJUBLJANA,
YUGOSLAVIA, 1970, FROM 5TH PLASMA PHYSICS SYMPOSIUM, HERCEGOVCI, YUGOSLAVIA, CONF-700706
- 565 72 001 AHEARN AJ
QUANTITATIVE ANALYSIS OF SOLIDS BY SPARK SOURCE MASS SPECTROMETRY
PP 150-7 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 002 BERKEY E SWEENEY GG HICKAM WM
ON-LINE SODIUM ANALYSES BY SPARK SOURCE MASS SPECTROSCOPY
TRANS. AMER. NUCL. SOC., 14, 616, 1971, FROM JOINT MEETING OF THE AMERICAN NUCLEAR SOCIETY, MIAMI
BEACH, FLA., OCT. 17, 1971, CONF-711009
- 565 72 003 BESKE HE
1. DETERMINATION OF TRACE AMOUNTS OF OXYGEN IN METALS BY SPARK SOURCE MASS SPECTROMETRY, 2. TRACE
ELEMENT ANALYSIS OF PLATINUM AND GOLD BY MEANS OF SPARK SOURCE MASS SPECTROSCOPY
Z. ANAL. CHEM., 256, NO. 2, 103, 1971 IN GERMAN AND KERntechnik, 14, NO. 6, 261, 1972
- 565 72 004 BOUVY G GAUNEAU M
ANALYSIS OF QUARTZ BY SPARK SOURCE MASS SPECTROMETRY
ANALYSIS, 1, NO. 1, 15, 1972
- 565 72 005 BROWN R JACOBS ML TAYLOR HE
A SURVEY OF THE MOST RECENT APPLICATIONS OF SPARK SOURCE MASS SPECTROMETRY
AMER. LAB., 4, NO. 11, 29, 1972, 15 REFERENCES
- 565 72 006 CALLIS EL
DETERMINATION OF URANIUM IN NATURAL WATERS BY ELECTRICAL DETECTION SPARK SOURCE MASS SPECTROMETRY
PP 52-5 OF NBL-262, NEW BRUNSWICK LAB., AEC, NEW JERSEY
- 565 72 007 CARTER JA CAMERON AE DEAN JA
SPARK SOURCE MASS SPECTROMETRIC TECHNIQUES FOR THE ANALYSIS OF LANTHANIDE AND ACTINIDE ELEMENTS IN
MICROGRAM AND SUB-MICROGRAM TRANSURANIUM SAMPLES
ANAL. LETRS., 4, NO. 6, 337, 1971
- 565 72 008 CHASTAGNER P TIFFANY B
ANALYSIS OF CURIUM AND CALIFORNIUM BY SINGLE EXPOSURE SPARK SOURCE MASS SPECTROMETRY
J. MASS SPECTRY, ION PHYS., 9, 325, 1972, 4 REFERENCES
- 565 72 009 CHUPAKHIN MS POLYAKOV AL
METHOD OF MASS SPECTROGRAPHIC ELEMENT ANALYSIS OF GEOLOGICAL SAMPLES, METEORITE MATTER, AND SAMPLES
OF MOON SOIL
ZH. ANAL. KHIM., 27, 523, 1972 IN RUSSIAN

- 565 72 010 COLBY BN MORRISON GH (2)
1. ELECTRICAL DETECTION IN SPARK SOURCE MASS SPECTROMETRY. 2. AUTOMATIC SPARK GAP CONTRL FOR SPARK SOURCE MASS SPECTROMETRY
1. THESIS. CORNELL UNIV., ITHACA, N.Y. UNIV. MICROFILMS ORDER NO. 72-18,550. DISS. ABS., 32B, 12, 6877, 1972. 2. ANAL. CHEM., 44, 1263, 1972
- 565 72 011 CONZENIUS RJ RHINEH/RT WA SVEC HJ
A SEMI-AUTOMATIC SYSTEM FOR OPERATION OF ELECTRICAL DETECTION FOR A SPARK SOURCE MASS SPECTROMETER
TALANTA, 19, 1147, 1972
- 565 72 012 CROCKER IH WRAY LW (1) MERRILL WF (2)
1. ANALYSIS OF GE(LI) SEMICONDUCTOR RADIATION DETECTORS USING A SPARK SOURCE MASS SPECTROMETER. 2. ANALYSIS OF ENVIRONMENTAL SAMPLES BY SPARK SOURCE MASS SPECTROMETRY. 1. TRACE ELEMENTS IN WATER CAN. SPECTROSC., 16, NO. 3, 77, 1971 (AECL-3877) AND WATER RES., 6, 285, 1972
- 565 72 013 ENOMOTO S AOYAMA T
RECENT ENHANCEMENT OF DETECTABILITY IN R.F. SPARK SOURCE MASS SPECTROMETER
PP 334-8 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 014 ERAEMETSAE O YLIRUOKANEN I
NIOBIUM, MOLYBDENUM, HAFNIUM, TUNGSTEN, THORIUM, AND URANIUM IN LICHENS AND MOSSES
SUOMEN KEM., 44, NO. 11, 372, 1971
- 565 72 015 FRANKLIN JC DEAN JA (1) HICKS HL (2) GRIFFIN EB (2)
1. TIME RESOLVED SPARK SOURCE MASS SPECTROMETRY: THE EFFECT OF SPARK DURATION ON ION INTENSITY AND PRECISION OF ANALYSIS. 2. SPARK SOURCE MASS SPECTROMETER USING ELECTRICAL DETECTION
1. ANAL. LTRS., 4, 857, 1971. 2. Y-DK-86. UNION CARBIDE CORP., OAK RIDGE, TENN., Y-12 PLANT, OCT. 1972. 13P. CONF-721025-3. NTIS. FROM 16TH CONFERENCE ON ANALYTICAL CHEMISTRY IN NUCLEAR TECHNOLOGY, GATLINBURG, TENN., OCT. 24, 1972
- 565 72 016 GERMAN B SCAPLEHORN AW
USE OF SPARK SOURCE MASS SPECTROMETRY FOR THE ANALYSIS OF GLASS
FORENSIC SCI. SOC., 12, NO. 2, 367, 1972
- 565 72 017 GLADSKOI VM IVANOVA GA KUZOVLEV IA
USE OF SPARK SOURCE MASS SPECTROMETRY FOR ANALYSIS OF CONCENTRATES OF ELEMENT ADMIXTURES
Zh. ANAL. KHIM., 26, 1087, 1971 IN RUSSIAN
- 565 72 018 GLAWIN GG KOPEZKY CW NIKOLAEV RK SICHARULIDZE GG
ANWENDUNG DER FUNKEN MASSENSPEKTROMETRIE ZUR BESTIMMUNG DER GASBEIMENGUNGEN IN METALLEN NACH DER METHODE DER ISOTOPENVERDÜNNUNG. (USE OF SPARK MASS SPECTROMETRY FOR DETERMINATION OF GASEOUS IMPURITIES IN METALS BY THE METHOD OF ISOTOPE DILUTION)
J. LESS-COMMON METALS, 26, 1, 1972
- 565 72 019 GOLIGHTLY DW
ANALYSIS OF TRACE STATE IMPURITIES IN U USING MASS SPECTROMETRY AND ISOTOPIC DILUTION PRECEDED BY ELECTROCHEMICAL SEPARATION
METHOD. PHYS. ANAL., 7, NO. 3, 275, 1971 IN FRENCH
- 565 72 020 GRAHAM AL MASON B
NIOBIUM IN METEORITES
GEOCHIM. COSMOCHEM. ACTA, 36, 917, 1972
- 565 72 021 GRIFFITH DA CONZENIUS RJ SVEC HJ
DETERMINATION OF RARE EARTHS IN SELECTED RARE EARTH MATRICES BY SPARK SOURCE MASS SPECTROMETRY
TALANTA, 18, 645, 1971
- 565 72 022 HAMILTON EI MINSKI MJ
SPARK SOURCE MASS SPECTROMETRIC SENSITIVITY FACTORS FOR ELEMENTS IN DIFFERENT MATRICES
J. MASS SPECTRY. ION PHYS., 10, 77, 1972, 6 REFERENCES
- 565 72 023 HARRISON WW CLEMENA GG MAGEE CW (1)
1. FORENSIC APPLICATIONS OF SPARK SOURCE MASS SPECTROMETRY. 2. SURVEY ANALYSIS OF TRACE ELEMENTS IN HUMAN FINGERNAILS BY SPARK SOURCE MASS SPECTROMETRY. 3. FACTORS AFFECTING USE OF EXTERNAL STANDARDS FOR SPARK SOURCE MASS SPECTROMETRY
J. ASSOC. OFF. ANAL. CHEM., 54, 929, 1971. CLIN. CHIM. ACTA, 36, 485, 1972. AND ANAL. CHEM., 44, 940, 1972
- 565 72 024 HINTENBERGER H BERGHOF W
MASS SPECTROGRAPHIC DETERMINATION OF TRACE ELEMENTS IN METEORITES
PP 657-65 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 025 HOWARD OH
DETERMINATION OF METALLIC ELEMENT IMPURITIES IN URANIUM HEXAFLUORIDE BY SPARK SOURCE MASS SPECTROMETRY
ANAL. CHEM., 44, 1482, 1972
- 565 72 026 KAMMORI O YAMAGUCHI N SATO K SUZUKI R
EFFECTS OF SOURCE PARAMETERS ON THE ION INTENSITY IN A TRIGGERED DC SPARK SOURCE MASS SPECTROGRAPHY
PP 300-5 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 027 KASHUBA AT
ANALYSIS OF TERRESTRIAL, METEORITIC, AND LUNAR BASALTIC SAMPLES BY SPARK SOURCE MASS SPECTROSCOPY
THESIS. CORNELL UNIV., ITHACA, N.Y. UNIV. MICROFILMS ORDER NO. 70-23,120. DISS. ABS., 31B, 6, 3225, 1970
- 565 72 028 KESSLER T SHARKEY A FRIEDEL RA
SPARK SOURCE MASS SPECTROMETER INVESTIGATION OF COAL PARTICLES AND COAL ASH
PB-204 151. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151. 1971
- 565 72 029 KONISHI F
1. IMPROVED QUANTITATIVE ANALYSIS OF METALS BY SPARK SOURCE MASS SPECTROGRAPHY. 2. DETERMINATION OF TRACE AMOUNTS OF OXYGEN, CARBON, AND NITROGEN IN METALS BY SPARK SOURCE MASS SPECTROGRAPHY
MASS SPECTRY. JAPAN, 19, 284, 1971 IN JAPANESE (26 REFERENCES) AND J. MASS SPECTRY. ION PHYS., 9, 33, 1972 (9 REFERENCES)

- 565 72 030 KUEHNER EC ALVAREZ R PAULSEN PJ MURPHY TJ
PRODUCTION AND ANALYSIS OF SPECIAL HIGH PURITY ACIDS PURIFIED BY SUB-BOILING DISTILLATION
ANAL. CHEM., 44, 2050, 1972
- 565 72 031 LYON WS BATE LC EMERY JF
ENVIRONMENTAL POLLUTION: USE OF NEUTRON ACTIVATION ANALYSIS TO DETERMINE THE FATE OF TRACE ELEMENTS
FROM FOSSIL FUEL COMBUSTION IN THE ECOLOGICAL CYCLE
CONF-720413-1, OAK RIDGE NATIONAL LAB., TENN., 1971, 14P. NTIS, FROM SYMPOSIUM ON NUCLEAR ACTIVATION
TECHNIQUES IN THE LIFE SCIENCES, LJUBLJANA, YUGOSLAVIA, APRIL 10, 1972
- 565 72 032 MAKITA T KODERA K KISHI H
RELATIVE SENSITIVITY COEFFICIENTS FOR NEGATIVE IONS
PP 329-33 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 033 MORRISON GH ROTHENBERG AM
1. SPARK SOURCE MASS SPECTROSCOPY FOR TRACE ANALYSIS. 2. HOMOGENIZATION OF NONCONDUCTING SAMPLES FOR
SPARK SOURCE MASS SPECTROMETRIC ANALYSIS
1. PP 158-68 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969. 2. ANAL. CHEM., 44, 515, 1972
- 565 72 034 MORRISON GH COLBY BN (1,2) ROTH JR (1)
1. ON-LINE COMPUTER CONTROLLED ELECTRICAL DETECTION IN SPARK SOURCE MASS SPECTROMETRY. 2. PRECISION
OF ELECTRICAL DETECTION MEASUREMENTS OF POWDERED SAMPLES IN SPARK SOURCE MASS SPECTROMETRY. 3.
MULTIELEMENT ANALYSIS OF ALLENDE METEORITE BY NAA AND SSMS (RADIOCHEM. RADIOANAL. LTRS. 11, 251,
1972)
ANAL. CHEM., 44, 1203, 1972, ANAL. CHEM., 44, 1206, 1972, AND RADIOCHEM. RADIOANAL. LTRS. 12, 77,
1972
- 565 72 035 NO AUTHOR
DETERMINATION OF TRACE ELEMENTS IN URANIUM USING SPARK MASS SPECTROMETRY
CEA-R-4348, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, AUG.
1972, 17P IN FRENCH, NTIS
- 565 72 036 ODA S OHASHI Z FURUYA K
SIMULTANEOUS DETERMINATION OF OXYGEN AND NITROGEN IN IRON AND STEEL BY SPARK SOURCE MASS
SPECTROGRAPHY
TALANTA, 19, 779, 1972
- 565 72 037 ORZHONIKIDZE KG MELASHVILI VA SIKHARULIDZE GG GLINKSKIKH VM
MASS SPECTROGRAPHIC ANALYSIS OF NONCONDUCTING SOLIDS
PP 362-6 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 038 PECHIN WH BRADLEY RA LACKEY WJ SEASE JD
ANALYSIS OF (U,Pu)O₂ FUELS AT OAK RIDGE NATIONAL LABORATORY
CONF-711107-2, OAK RIDGE NATIONAL LAB., TENN., 1971, 20P. NTIS, FROM SYMPOSIUM ON ANALYTICAL METHODS
IN THE NUCLEAR FUEL CYCLE, VIENNA, AUSTRIA, NOV. 29, 1971
- 565 72 039 ROTHENBERG AM
SPARK SOURCE MASS SPECTROSCOPIC METHOD FOR THE MULTIELEMENT ANALYSIS OF LUNAR AND METEORITIC POWDERS
USING HOMOGENIZED SAMPLES
THESIS, CORNELL UNIV., ITHACA, N.Y. UNIV. MICROFILMS ORDER NO. 72-15,434. DISS. ABS., 32B, 12, 6881,
1972
- 565 72 040 TAYLOR SR

GEOCHEMICAL APPLICATION OF SPARK SOURCE MASS SPECTROGRAPHY. 2. PHOTOPLATE DATA PROCESSING
GEOCHIM. COSMOCHIM. ACTA, 35, 1187, 1971
- 565 72 041 TONG SC GUTENMAN WH
DETERMINATION OF FLUORINE AND BROMINE IN HALOGENATED HERBICIDE RESIDUES IN SOIL BY SPARK SOURCE MASS
SPECTROMETRY
ANAL. CHEM., 44, 1069, 1972
- 565 72 042 VALERIANO P VASTEL J
ANALYTICAL IMPROVEMENTS IN SPARK SOURCE MASS SPECTROMETRY
PP 351-7 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 565 72 043 VASILE MJ MALM DL
STUDY OF ELECTROPLATED GOLD BY SPARK SOURCE MASS SPECTROMETRY
ANAL. CHEM., 44, 650, 1972
- 565 72 044 VIALA JC THEVENOT F
ANALYSIS OF ELEMENTARY BORON AND OF BORON FIBRES BY SPARK MASS SPECTROMETRY
ANALYSIS, 1, 485, 1972
- 565 72 045 WAHLGREN MA EDGINGTON DN RAWLINGS FF RAWLS JL (3)
1. DETERMINATION OF SELECTED TRACE ELEMENTS IN NATURAL WATER SAMPLES USING SPARK SOURCE MASS
SPECTROSCOPY. 2. DETERMINATION OF SELECTED TRACE ELEMENTS IN WATER SAMPLES USING SPARK SOURCE MASS
SPECTROSCOPY AND NEUTRON ACTIVATION ANALYSIS. 3. TRACE ELEMENT DETERMINATIONS ON LAKE MICHIGAN
TRIBUTARY WATER SAMPLES USING SPARK SOURCE MASS SPECTROMETRY
1. PP 55-63 OF ANL-7860(PT.3), IN RADIOLOGICAL PHYSICS DIVISION ANNUAL REPORT, 1971, 2. PP 97-103 OF
NUCLEAR METHODS IN ENVIRONMENTAL RESEARCH, VOGT, J.R. (ED.), UNIV. OF MISSOURI, COLUMBIA, 1971.
FROM MEETING, COLUMBIA, AUG. 23, 1971. 3. PP 298-305 OF PROCEEDINGS OF THE 15TH CONFERENCE ON
GREAT LAKES RESEARCH, INTERNATIONAL ASSOCIATION FOR GREAT LAKES RESEARCH, ANN ARBOR, MICH., 1972.
FROM CONFERENCE, MADISON, WISC., APR. 5, 1972. CONF-720451
- 565 72 046 WATANABE E NAITO M
DEVELOPMENT OF A MASS SPECTROMETER EQUIPPED WITH BOTH A CONVERTIBLE KNUDSEN CELL ION SOURCE AND A R.
F. SPARK ION SOURCE
PP 249-56 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970, FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 570 72 001 AASEN AJ KIMLAND B (1) ALMOVIST S (1) LIAAEN JE (2) BORCH G (2)
1. TOBACCO CHEMISTRY. IX. 5-METHOXY-6,7-DIMETHYLBENZOFURAN, A NEW TOBACCO CONSTITUENT. 2.
CAROTENOIDS OF FLEXIBACTERIA. V. CHIRALITY OF ZEAXANTHIN FROM DIFFERENT NATURAL SOURCES
ACTA CHEM. SCAND., 25, 3182, 1971 AND 26, 404, 1972

- 570 72 002 ABURANO S
STUDIES ON FATTY ACIDS FROM FRUIT AND SEED OILS. 1. STUDIES ON THE CYCLOPROPENIC FATTY ACID FROM THE SEED OIL OF FIRMIANA PLATANIFOLIA SCHOTT ET ENDL
J. PHARM. SOC. JAPAN (YAKUGAKU ZASSHI), 90, 1471, 1970 IN JAPANESE
- 570 72 003 ACHENBACH H WALLENFELDER K (1) NEUMANN P (1)
1. MASSENSPEKTROMETRISCHE STRUKTURFESTLEGUNG VON SYNTHESPRODUKTEN. III. MASSENSPEKTROMETRISCHE STRUKTURBESTIMMUNG EINES NEUEN SYNTHETISCHEN TETRACYANPICOLINS. 2. DIE STRUKTUREN DER XANTHOCILLINE-Y1 UND Y2
CHEM. BER., 105, 1646 AND 3061, 1972
- 570 72 004 ADAM G SCHREIBER K (1) TUMMLER R (1) HESSE M (2)
1. ELEKTRONENANLAGERUNGS MASSENSPEKTROGRAPHIE VON STICKSTOFFHALTIGEN STEROIDEN DER 22,26-EPIMINOCHOLESTAN-REIHE. 2. STRUKTURAUFKLARUNG EINES C28-STEROIDLACTONS VOM WITHAFERIN-TYP DUNALIA AUSTRALIS (GRISEB.) SLEUM
J. PRAKT. CHEM., 313, 1051, 1971 AND TETRAHEDRON, 28, 3527, 1972
- 570 72 005 ADITYACHAUDHURY N
CHALCONES OF FLEMINGIA CHAPPAR MAN. THE STRUCTURE AND SYNTHESIS OF FLEMICHAPPARIN
TETRAHEDRON, 27, 2111, 1971
- 570 72 006 AGUILERA H
CONFIRMATION DE LA AUSENCIA DE AFLATOXINAS B1, B2, G1, Y G2 EN EL HUITLACOCHÉ 'USTILAGO MAYDIS'
BOL. INST. QUIM. U.N.A.M., NO. 22, 69-79, 1970
- 570 72 007 AHMAD MS ANSARI GAS (1) MUSHFIQ M (2)
MASS SPECTRAL STUDIES ON STEROIDAL COMPOUNDS. 1. STEROIDAL 6-ONE ETHYLENE ACETALS. 2. 7A-AZA COMPOUNDS IN THE CHOLESTANE SERIES (RING B(EPSILON)-LACTAMS)
ORG. MASS SPECTRY, 6, 1095 AND 1109, 1972
- 570 72 008 AKHMEDOV IS
ARTABIN, A NEW LACTONE FROM ATERMISIA ABSINTHIUM
KHIM. PRIROD. SOEDIN., P622, 1970 IN RUSSIAN
- 570 72 009 ALI E
STUDIES ON INDIAN MEDICINAL PLANTS. 28. SESQUITERPENE LACTONES OF ENHYDRA FLUCTUANS LOUR. STRUCTURES OF ENHYDRIN, FLUCTUANIN, AND FLUCTUADIN
TETRAHEDRON, 28, 2285, 1972
- 570 72 010 ALLMANN R
MOLECULAR AND CRYSTAL STRUCTURE OF 1,2-DIAZEPINES AND THEIR CONFORMATIONAL MOBILITY IN SOLUTION
TETRAHEDRON, 28, 581, 1972
- 570 72 011 AMAND Y HEATHCOTE CH
(+)-OCCIDENTALOL: ABSOLUTE STEREOSTRUCTURE AND TOTAL SYNTHESIS
CAN. J. CHEM., 50, 340, 1972
- 570 72 012 ANDERSON CT EPSTEIN WW VAN LFER G
MINOR TRITERPENOID OF FOMES OFFICINALIS
PHYTOCHEM., 11, 2847, 1972
- 570 72 013 ANIMIE H SAMEK Z DOLEJS L
UBER DIE FLUCHTIGEN INHALTSSTOFFE VON ASA FOETIDA: ZWEI NEUEN NATURLICHEN SCHWEFELVERBINDUNGEN MIT PESTIZIDER WIRKUNG
COLLECT. CZECH. CHEM. COMMUN., 37, 1166, 1972
- 570 72 014 ANTHONSEN T
BACCHARIS OXIDE, A NEW TRITERPENOID FROM BACCHARIS HALIMIFOLIA L
ACTA CHEM. SCAND., 24, 2479, 1970
- 570 72 015 ARNDT RR BAARSCHERS WH
STRUCTURE OF PHRAGMALIN, A MELIACIN WITH A NORBORNANE PART SKELETON
TETRAHEDRON, 28, 2333, 1972
- 570 72 016 ASKAM V JONES D (1) BRADLEY DM (2)
1. COMPOUNDS RELATED TO BIOLOGICALLY ACTIVE STEROIDS. 1,2,3,4,9,10-HEXAHYDRO-6,7-DIMETHOXY-PHENANTHRENE-2-SPIROCYCLOHEXAN-2'-ONE. 2. TRANSFORMATIONS IN RING-A OF METHYL GLYCYRRHETINATE
J. CHEM. SOC. C, P1524 AND P1895, 1971
- 570 72 017 ATALLAH AM NICHOLAS HJ
1. 31-NORCYCLOARTANOL FATTY ACID ESTERS: CHOLESTERIC LIQUID CRYSTALS FROM A TRITERPENE OF PLANT ORIGIN. 2. TRITERPENOID AND STEROIDS OF EUPHORBIA PILULIFERA
MOL. CRYST. LIQUID CRYST., 17, 1, 1972 AND PHYTOCHEM., 11, 1860, 1972
- 570 72 018 AXELSSON K BJORNDAHL H SVENSSON S
POLYSACCHARIDES ELABORATED BY FOMES ANNOSUS (F.) COOKE. 2. NEUTRAL POLYSACCHARIDES FROM FRUIT BODIES. ISOLATION AND PURIFICATION OF A FUCOXYLOMANNAN BY PRECIPITATION WITH H-AGGLUTININ FROM EEL-SERUM
ACTA CHEM. SCAND., 25, 3645, 1971
- 570 72 019 AYNILIAN GH
CATHARANTHUS ALKALOIDS. 27. CATHANNEINE, A NEW ALKALOID FROM CATHARANTHUS LANCEUS. 28. THE STRUCTURE (CHEMICAL VERIFICATION) AND ABSOLUTE CONFIGURATION OF CATHANNEINE
TETRAHEDRON LETS, P89 AND P391, 1972
- 570 72 020 BAGLI JF BOGRI T
PROSTAGLANDINS. 4. TOTAL SYNTHESIS OF DL-11-DEOXY PGE(1) AND 13,14-DIHYDRO DERIVATIVES OF 11-DEOXY PGE(1), PGF(1ALPHA), AND PGF(1BETA)
J. ORG. CHEM., 37, 2132, 1972
- 570 72 021 BAISHEVA HS
CORPAINE FROM CORYDALIS PACZOSKII
KHIM. PRIROD. SOEDIN., P574, 1970 IN RUSSIAN
- 570 72 022 BAKER AJ
SYNTHESIS OF COMPOUNDS RELATED TO GIBBERELLINS. 1. METHYL-3-METHOXY-6BETA-METHYL-16-METHYLENE-9ALPHA-GIBBA-1(10),2,4-TRIENE-4-CARBOXYLATE
J. CHEM. SOC., PERKIN TRANS., 1, P1256, 1972

- 570 72 023 BALDAS J BICK IRC IBUKA T (1,3) FALCO MR (2)
MASS SPECTROMETRY OF BISBENZYLISOQUINOLINE ALKALOIDS. 1. ALKALOIDS DERIVED FROM COCLAURINE UNITS
JOINED TAIL-TO-TAIL. 2. ALKALOIDS DERIVED FROM ONE COCLAURINE AND ONE ISOCOCLAURINE UNIT. 3.
ALKALOIDS DERIVED FROM COCLAURINE UNITS JOINED HEAD-TO-TAIL
J. CHEM. SOC., PERKIN TRANS. 1. P 592, P 597, AND P 599, 1972
- 570 72 024 BALOGH B WILSON DM BURLINGAME AL
4,4-DIMETHYL-2-CYCLOHEPTEN-1-ONE IN CORTICAL OLEORESIN OF ABIES BALSAMEA
PHYTOCHEM. 11. 1481, 1972
- 570 72 025 BAR H ZARNACK J PFEIFER S
1. N-FORMYL-2-AMINOPHENOL: EIN NEUER NATURSTOFF. 2. PHENOXAZINE IN KULTURLÖSUNGEN VON PENICILLIUM
NOTATUM WESTL
PHARMAZIE. 26. 108 AND 314, 1971
- 570 72 026 BARANDOWS E DANIEWSKI WM
CONSTITUTES OF HIGHER FUNGI. 4. MASS SPECTROMETRIC INVESTIGATIONS OF LACTARORUFIN-A AND ITS
DERIVATIVES
BULL. ACAD. POL. SCI., SER. SCI. CHIM., 20. 313, 1972
- 570 72 027 BARROW KD
FUSICOCCIN. 1. NATURE OF THE SUBSTITUENT GROUPS. 2. THE CONSTITUTION OF FUSICOCCIN
J. CHEM. SOC. C. P1259 AND P1265, 1971
- 570 72 028 BARTH WE LAWTON RG
SYNTHESIS OF CCRANNULENE
JACS. 93. 1730, 1971
- 570 72 029 BARTLETT L
CHIROPTISCHE EIGENSCHAFTEN UND AQUILIBRIERUNGEN STEREOISOMERER YOHIMBANE UND IHRER 17-KETODERIVATE
HELV. CHIM. ACTA. 54. 1238, 1971
- 570 72 030 BARTON JW GRINHAM AR
PHENANTHRO(9,10-D)IMIDAZOLE DERIVATIVES. STRUCTURE OF ZINCKE'S PHENANTHRAQUINONE IMIDE ANHYDRIDE
J. CHEM. SOC. C. P1257, 1971
- 570 72 031 BARTUAL J PASCUAL J
REDUCTIVE DIMERIZATION OF (+)-PULEGONE. 5. CONVERSION OF BICYCLO(3,4)NONANE-7-SPIROCYCLOHEXANE
DERIVATIVES INTO PHENANTHRENES
AN. QUIM., 66. 693, 1970 IN SPANISH
- 570 72 032 BARUA AK
TILIACORIDINE: A NEW ALKALOID FROM TILIACORA RACEMOSA COLEBR
J. INDIAN CHEM. SOC., 47. 920, 1970
- 570 72 033 BATTERSBY AR
1-PHENETHYLISOQUINOLINE ALKALOIDS. 2. THE STRUCTURES OF ALKALOIDS FROM COLCHICUM CORNIGERUM (SWEINF
) TACKH. ET DRAR
J. CHEM. SOC. C. P3514, 1971
- 570 72 034 BAUMAN AJ BOETTGER HG KELLY AM
ISOLATION AND CHARACTERIZATION OF KETO-CAROTENOIDS FROM NEUTRAL EXTRACT OF ALGAL MAT COMMUNITIES OF
A DESERT SCIL
EUR. J. BIOCHEM., 22. 287, 1971
- 570 72 035 BAYER E KNEIFEL H
- ISOLATION OF AMAVADIN, A VANADIUM COMPOUND OCCURRING IN AMANITA MUSCARIA
Z. NATURFORSCH., 27B. 207, 1972 IN GERMAN
- 570 72 036 BEARDER JR MACMILLA J
GIBBERELLIN-A36: ISOLATION FROM GIBBERELLA FUJIKURUI. STRUCTURE, AND CONVERSION TO GIBBERELLIN-A37
AGR. BIOL. CHEM. (TOKYO), 36. 342, 1972
- 570 72 037 BEATTIE IR
RAMAN SPECTRA AND FREQUENCY CALCULATIONS FOR SOME STEROIDS
J. CHEM. SOC. C. P2521, 1971
- 570 72 038 BEAUMONT PC EDWARDS RL
CONSTITUENTS OF THE HIGHER FUNGI. 11. BOVIOQUINONE-3 (2,9-DIHYDROXY-3-FARNESYL-1,4-BENZOQUINONE).
DIBOVIOQUINONE-3,4, METHYLENEDIBOVIOQUINONE-3,3, AND XEROCOMIC ACID FROM GOMPHIDIUS RUTILUS FR. AND
DIBOVIOQUINONE-4,4 FROM BOLETUS (SUILLUS) BOVINUS (LINN EX FR.) KUNTZE
J. CHEM. SOC. C. P2582, 1971
- 570 72 039 BEDFORD GR
PHENOL DYESTUFF OF LIEBERMANN AS AN ACRIDIAN DERIVATIVE
J. CHEM. SOC. C. P2462, 1970
- 570 72 040 BEGLEY MJ
CONSTITUTION AND ABSOLUTE CONFIGURATION OF META,META BRIDGED, STRAINED BIPHENYLS FROM MYRICA NAGI:
X-RAY ANALYSIS OF 16-BROMOMYRICANOL
J. CHEM. SOC. C. P3634, 1971
- 570 72 041 BENESOVA V
STRUCTURE OF A TETRACYCLIC SESQUITERPENIC ALCOHOL FROM LIVERWORT MYLIA TAYLORII (HOOK.) GRAY
TETRAHEDRON LETRS. P2679, 1971
- 570 72 042 BERGSTROM DE LEONARD NJ
STRUCTURE OF THE BOROHYDRIDE REDUCTION PRODUCT OF PHOTOLINKED 4-THIOURACIL AND CYTOSINE.
FLUORESCENT PROBE OF TRANSFER RIBONUCLEIC ACID TERTIARY STRUCTURE
JACS. 94. 6178, 1972
- 570 72 043 BERKOWITZ JE COGGON P SANDERSO GW
FORMATION OF EPITHEAFLAVIC ACID AND ITS TRANSFORMATION OF THEARUBIGINS DURING TEA FERMENTATION
PHYTOCHEM., 10. 2271, 1971
- 570 72 044 BERKOWITZ WF
A NEW SYNTHESIS OF CIS-JASMONE
J. ORG. CHEM., 37. 341, 1972

- 570 72 045 BESSONOV IA YUNUSOV SY
STRUCTURE OF FELISINE
KHIM. PRIROD. SOEDIN., P629, 1971 IN RUSSIAN
- 570 72 046 BHAKUNI DS
ALKALOIDS OF CROTON SPARSIFLORUS
PHYTOCHEM., 9, 2573, 1970
- 570 72 047 BHATNAGA SC AWASTHI YC MITRA CR
1. CONSTITUENTS OF MADHUCA LONGIFOLIA LEAVES. 2. STEROIDAL AND OTHER CONSTITUENTS OF MADHUCA
LATIFOLIA LEAVES
PHYTOCHEM., 11, 465 AND 1533, 1972
- 570 72 048 BHATTACHARYA J PAKRASHI SC
ELEGANTINE: NEW OXINDOLE ALKALOID FROM VINCA ELEGANTISSIMA HORT
TETRAHEDRON LTRS, P159, 1972
- 570 72 049 BICK IRC TAYLOR WI (1)
1. ALKALOIDS OF DAPHNANDRA SPECIES. X. THE STRUCTURE OF ISOTENUPINE. 2. STRUCTURE AND
STEREOCHEMISTRY OF MICRANTHINE
J. CHEM. SOC. C, P3779, 1971 AND TETRAHEDRON LTRS, P33, 1972
- 570 72 050 BIRCH AJ
A TOTAL SYNTHESIS OF (+OR-)-ETHYLORATE ((+OR-)-ETHYL(3RS)-3-(1SR,4
SR)-1-ISOBUTYRYL-4-METHYL-3-OXOCYCLOHEXYL BUTYRATE) AND (+OR-)-EPIACORIC ACID. AN APPLICATION OF A
SPECIFIC ENOLATE
J. CHEM. SOC., PERKIN TRANS., I, P1186, 1972
- 570 72 051 BIRCHALL GR
THE CHEMISTRY OF FUNGI. 60. SYNTHESIS OF TETRAHYDROSCLEROTIDRAMINE, TETRAHYDROSCLEROTOQUINONE, AND
TETRAHYDROSCLEROTIORIN
J. CHEM. SOC. C, P3559, 1971
- 570 72 052 BIRD CW
IDENTIFICATION OF HOP-22(29)-ENE IN PROKARYOTIC ORGANISMS
TETRAHEDRON LTRS, P3189, 1971
- 570 72 053 BITTNER EW GERIG JT
NMR STUDIES OF THE CONFORMATIONS OF 1,2-DICARBOXY-1,2,3,6-TETRAHYDROPIRIDAZINES
JACS, 94, 910, 1972
- 570 72 054 BJAMER BIRNBAUM K
REVISED STRUCTURE OF THE ALKALOID CLIVORINE
TETRAHEDRON LTRS, P3421, 1971
- 570 72 055 BLACKBURN GM
STRUCTURE OF THE THYMINE:3,4-BENZOPYRENE PHOTOPRODUCT
TETRAHEDRON LTRS, P589, 1972
- 570 72 056 BLAHA K KOBLICOV Z TROJANEK J
ABSOLUTE CONFIGURATION OF IBOGA AND VOCANGA ALKALOIDS: CHIROPTICAL APPROACH
TETRAHEDRON LTRS, P2763, 1972
- 570 72 057 BUDE J BRÜCKMANN H
ZUR RELATIVEN KONFIGURATION 2,3-DIALKYL SUBSTITUIERTER BERNSTEINSAUREN
CHEM. BER., 105, 34, 1972
- 570 72 058 BOER FP
STRUCTURE OF BINDR-S ESTABLISHED FROM THE DIONE DERIVATIVE. CRYSTAL AND MOLECULAR STRUCTURE OF
DECAHYDRO(1,2,4:5,6,8)DIMETHENO-S-INDACENEDIONE
JACS, 93, 4436, 1971
- 570 72 059 BOGNAR R
FLAVOFUNGIN: A MIXTURE OF 13,15,17,19,21,23,25,27-OCTAHYDROXY-31-ISOPROPYL-14-METHYL AND 13
15,17,19,21,23,25,27-OCTAHYDROXY-31-S-BUTYL-HENTRIACONTA-2,4,6,8,10,28-HEXAEN-31-OLIDE
J. CHEM. SOC., PERKIN TRANS., I, P1848, 1972
- 570 72 060 BOHLMANN F ZDERO C
1. NOTIZ UBER EIN WEITERES KUMULEN AUS ANTHEMIS AUSTRIACA JACO. 2. UBER ZWEI NEUE PHENYLPOLYINE AUS
ANTHEMIS FUSCATA BRNT. 3. PRUTENIN, 4-ANGELOYLOXY-PRUTENINON SOWIE 4-ACETOXY-PRUTENINON UND
ISOPRUTENINON: VIER NEUE SESQUITERPENLACTONE AUS LASERPITIUM PRUTENICUM L. 4. UBER WEITERE
TERPENALDEHYDESTER AUS ERYNGIUM-ARTEN
CHEM. BER., 104, 1329, 1375, 1611, AND 1957, 1971
- 570 72 061 BOHLMANN F ZDERO C
1. NOTIZ UBER EIN WEITERES ISOEUGENOL DERIVAT AUS UMBELLIFEREN. 2. UBER DIE INHALTSSTOFFE DER
GATTUNG SESELI. 3. UBER DIE INHALTSSTOFFE DER TRIBUS ARCTOTIDEAE. 4. ACETYLEN VERBINDUNGEN AUS
OSMITOPSIS ASTERISCOIDES (L.) CASS. 5. ZWEI NEUE SESQUITERPENLACTONE AUS LIOBECKIA PECTINATA BERG.
UND PENTZIA ELEGANS DC.
CHEM. BER., 104, 2033 AND 2354, 1971, CHEM. BER., 105, 1245 AND 1919, 1972, AND TETRAHEDRON LTRS,
P621, 1972
- 570 72 062 BOHLMANN F MIETHE R (2) SKUBALLA W (3) BLHMANN U (5) WEFER R (6)
GRENZ H (7)
1. UBER WEITERE POLYINE AUS UMBELLIFEREN. 2. SYNTHESEN VON ACETYLEN VERBINDUNGEN AUS OENANTHE
CROCATA L. UND PITTOSPORUM BUCHANANI HOOK. 3. SYNTHESE DER ENOLATHERPOLYINE AUS GNAPHALIUM-ARTEN.
4. NOTIZ UBER DIE INHALTSSTOFFE VON BUPLEURUM-ARTEN. 5. SYNTHESE VON NATURLICH VORKOMMENDEN
HYDROXYACETONHEFTEN DERIVATEN. 6. SYNTHESE VON ENOLATHERPOLYINEN AUS ANAPHALIS AND
GNAPHALIUM-ARTEN. 7. NOTIZ UBER DIE ISOLIERUNG VON HAUTRIWA SAURE AUS CONYZA IVAEFOLIA LESS
CHEM. BER., 104, 1322, 1362, 1962, AND 2030, 1971 AND CHEM. BER., 105, 863, 3036, AND 3123, 1972
- 570 72 063 BOHMAN-LINDGREN G RAGNARSSON U
CHEMICAL STUDIES ON LICHENS. 33. ROCCANIN, A NEW CYCLIC TETRAPEPTIDE FROM ROCCELLA CANARIENSIS. 34.
THE SYNTHESIS OF CYCLO-(R-BETA-PHENYL-BETA-ALANYL-L-PROPYL)-2, A PEPTIDE ISOLATED FROM ROCCELLA
CANARIENSIS
TETRAHEDRON, 28, 4625 AND 4631, 1972
- 570 72 064 BOLGER LM
ISOLATION OF TWO NEW STEROLS FROM CLERUDENDRUM CAMPBELLII
TETRAHEDRON LTRS, P3043, 1970

- 570 72 065 BOLTON IJ
CALCIFEROL AND ITS RELATIVES. 14. TOTAL SYNTHESIS OF DES-AB-CHOLESTANE-8BETA,9ALPHA-DIOL (1
BETA-(11R)-1,5-DIMETHYLMEXYL)-7(A)BETA-METHYL-TRANS-PERHYDROINDANE-4BETA,5ALPHA-DIOL)
J. CHEM. SOC. C. P2950, 1971
- 570 72 066 BONNETT R
CYANO-13-EPICOEALAMIN (NEOVITAMIN B12) AND ITS RELATIVES
J. CHEM. SOC. C. P3736, 1971
- 570 72 067 BORDERS DB
STRUCTURE OF LL-21220. A NEW ANTIBIOTIC CONTAINING A CYCLOHEXENE DIEPOXIDE RING SYSTEM
JACS. 94. 2540, 1972
- 570 72 068 BORNOWSKI H
STRUKTUR DES LASIOSPERMANS. EIN NEUER TYP VON FURANSESQUITERPENEN
TETRAHEDRON. 27. 4101, 1971
- 570 72 069 BOROWSKI E
STRUCTURE OF CANDIDIN, A POLYENE MACROLIDE ANTIFUNGAL ANTIBIOTIC
TETRAHEDRON LTRS. P1987, 1971
- 570 72 070 BOSE AK SPIEGELM G MANHAS MS
STUDIES ON LACTAMS. 14. SYNTHESIS OF A STRUCTURAL ISOMER OF PENICILLIN. 16. STEREOCHEMISTRY OF
BETA-LACTAM FORMATION (AZETIDINE-2-ONES)
J. CHEM. SOC. C. P2468, 1971 AND TETRAHEDRON LTRS. P3167, 1971
- 570 72 071 BOUQUET A
UVARIOPSINE, ALKALOID FROM UVARIDOPSIS SCLHEIDII (DE WILD). ROBYNS AND GHESE. (ANNONACEAE)
COMPT. REND., SER. C. 271. 1100, 1970
- 570 72 072 BOYLE PH
THE CHEMISTRY OF TERPENES. 14. SYNTHESIS OF (+OR-)- AND (+)-FENCHONE, AND (+)-CIS-2,2,5-
TRIMETHYL-3-VINYLCYCLOPENTANONE, A PHOTOISOMER OF (-)-TRANS-CARAN-4-ONE
J. CHEM. SOC. C. P2136, 1971
- 570 72 073 BRECK GO
THE BARK RESINS OF SOME CALOPHYLLUM SPECIES
THESIS. UNIV. OF WASHINGTON, SEATTLE. UNIV. MICROFILMS ORDER NO. 71-949. DISS. ABS., 318. 7. 3909.
1971
- 570 72 074 BREW EJC THOMSON RH
NATURALLY OCCURRING QUINONES. 19. ANTHRAQUINONES IN HYMENODICTYON EXCELSUM AND DAMMACANTHUS MAJOR.
20. ANTHRAQUINONES IN DIGITALIS PURPUREA
J. CHEM. SOC. C. P2001 AND P2007, 1971
- 570 72 075 BRIGGS LH WHITE GW (1)
1. 4-METHYL-1-PHENYLPENTANE-1,3-DIONE AND 2-ISOPROPYLCHROMONE FROM THE ESSENTIAL OIL OF LOPHCYRTUS
BULLATA. 2. CHEMISTRY OF FUNGI. VIII. CONSTITUENTS OF VALSARIA RUBRICOSA AND THE IDENTIFICATION OF
PAPULOSIN WITH VALSARIN
J. CHEM. SOC. C. P3077, 1971 AND J. CHEM. SOC., PERKIN TRANS., I. P1464, 1972
- 570 72 076 BROCHMANN-HANSSE E LEUNG AY RICHTER WJ
OPIUM ALKALOIDS. 13. ISOLATION OF 16-HYDROXYTHEBAINE
J. ORG. CHEM., 37. 1881, 1972
- 570 72 077 BROCKMANN H MULLER-ENOCH D

DIE ABSOLUTE KONFIGURATION DER 2-METHYL-3-ATHYL-BERNSTEINSAUREN
CHEM. BER., 104. 3704, 1971
- 570 72 078 BROOKS JS MORRISON GA
NATURALLY OCCURRING COMPOUNDS RELATED TO PHENALENONE. 3. STRUCTURE OF HERQUEINONE AND NORHERQUEINONE
AND THEIR RELATIONSHIPS WITH ISOHERQUEINONE AND ISONORHERQUEINONE
J. CHEM. SOC., PERKIN TRANS., I. P421, 1972
- 570 72 079 BROWN OF SENN VJ STANLEY JB
COMPARISON OF CARBONYL COMPOUNDS IN RAW AND ROASTED RUNNER PEANUTS. 1. MAJOR QUALITATIVE AND SOME
QUANTITATIVE DIFFERENCES
J. AGR. FOOD CHEM., 20. 700, 1972
- 570 72 080 BROWN JN
CRYSTAL AND MOLECULAR STRUCTURE OF THE PHOTODIMER OF 5,6,7,8-TETRAHYDRO-2-QUINOLONE
JACS. 93. 7012, 1971
- 570 72 081 BROWN KS WEISS U (1) BAKER PM (2)
1. CHEMICAL CONSTITUENTS OF THE BRIGHT ORANGE APHID, APHIS NEFII FONSCOLMBE. III. TWO
NAPHTHAQUINONE METHIDES OF UNUSUAL STRUCTURE AND CHEMICAL BEHAVIOR. 2. STABLE ORTHO AND
PARA-NAPHTHAQUINONE METHIDES.
TETRAHEDRON LTRS. P3501 AND P3505, 1971
- 570 72 082 BROWN P
MASSENSPEKTROMETRISCHE UNTERSUCHUNGEN VON NATURPRODUKTEN: CARGENOLIDE
HELV. CHIM. ACTA. 55. 531, 1972
- 570 72 083 BROWN SD
1. ISOLATION, STRUCTURE, SYNTHESIS, AND ABSOLUTE CONFIGURATION OF THE CACTUS ALKALOID MACROMERINE.
2. ISOLATION, STRUCTURE, SYNTHESIS, AND ABSOLUTE CONFIGURATION OF THE CACTUS ALKALOID GIGANTINE
J. ORG. CHEM., 37. 773 AND 1825, 1972
- 570 72 084 BRUNWIN DM
TOTAL SYNTHESIS OF A NUCLEAR ANALOGUE OF THE PENICILLIN-CEPHALOSPORIN ANTIBIOTICS
J. CHEM. SOC. C. P3756, 1971
- 570 72 085 BRUTCHER FV
SYNTHETIC INDOLE ALKALOIDS. 1. SYNTHESIS OF PENTACYCLIC LACTAM
J. ORG. CHEM., 37. 297, 1972
- 570 72 086 BRYCE T
THREE NEW THEAFLAVINS FROM BLACK TEA
TETRAHEDRON LTRS. P463, 1972

- 570 72 087 BUCHI G EGGER B
A NEW SYNTHESIS OF CYCLOPENTENONES. METHYL JASMONATE AND JASMCNE
J. ORG. CHEM., 36, 2021, 1971
- 570 72 088 BUNDY QL
ISOLATION OF A NEW NATURALLY OCCURRING PROSTAGLANDIN, 5-TRANS-PGA(2). SYNTHESIS OF 5-TRANS-PGE(2)
AND 5-TRANS-PGF(2A)
JACS, 94, 2124, 1972
- 570 72 089 BURAKEVICH JV
PHENYLGLYOXIME. SEPARATION, CHARACTERIZATION, AND STRUCTURE OF THREE ISOMERS
J. ORG. CHEM., 36, 1, 1971
- 570 72 090 BURRELL JWK
CHARACTERIZATION OF THIOL ESTERS IN GALBANUM OIL
TETRAHEDRON LETRS, P2837, 1971
- 570 72 091 BUTRUILL D DOMINGUEZ XA (2)
1. ABSOLUTE CONFIGURATION OF THE ALKALOID (+)-SEORIDINE AND (-)-ALLOSEDRIDINE. 2. UN NOUVEAU PRODUIT
NATUREL: DIMETHOXY-1,4-NITRO-2-TRICHLORO-3,5,6-BENZENE
TETRAHEDRON, 27, 2055, 1971 AND TETRAHEDRON LETRS, P211, 1972
- 570 72 092 BUTTERY RG LING LC
CHARACTERIZATION ON NONBASIC STEAM VOLATILE COMPONENTS OF POTATO CHIPS
J. AGR. FOOD CHEM., 20, 698, 1972
- 570 72 093 CAFIERI F
FASCICULATIN, A NOVEL SESTERTERPENE FROM THE SPONGE IRCINIA FASCICULATA
TETRAHEDRON, 28, 1579, 1972
- 570 72 094 CARDILLO G
CONSTITUENTS OF DRAGON'S BLOOD. 1. STRUCTURE AND ABSOLUTE CONFIGURATION OF NEW OPTICALLY ACTIVE
FLAVANS
J. CHEM. SOC. C, P3967, 1971
- 570 72 095 CARPENTER I
EXTRACTIVES FROM GUTTIFERAE. 21. ISOLATION AND STRUCTURE OF NINE COUMARINS FROM THE BARK OF MANHEA
AFRICANA G. DON
J. CHEM. SOC. C, P3783, 1971
- 570 72 096 CARTWRIGHT D
SYNTHESIS OF SLAFRAMINE
JACS, 92, 7615, 1970
- 570 72 097 CARVALHAS ML
BISJATRORRHIZINE, A NEW DIMERIC PROTOBERBERINE ALKALOID FROM JATRORRHIZA PALMATA (LAM.) MIERS
J. CHEM. SOC., PERKIN TRANS., 1, P327, 1972
- 570 72 098 CASAGRANDE C MEROTTI G
STUDIES IN APORPHINE ALKALOIDS. 3. ISOLATION AND SYNTHESIS OF ALKALOIDS OF XYLOPIA BRASILIENSIS ST.
MIL
FARM. ED. SCI., 25, 799, 1970
- 570 72 099 CHAKRABORTY DP
STRUCTURE OF MURRAYACINE
J. ORG. CHEM., 36, 725, 1971
- 570 72 100 CHAN RC
THE CHEMISTRY OF FUNGI. 64. STRUCTURE OF MONASCIN: THE RELATIVE STEREOCHEMISTRY OF THE AZAPHILONES
J. CHEM. SOC. C, P3577, 1971
- 570 72 101 CHAN WR TAYLOR DR (2) APLIN RT (2)
1. STRUCTURE AND STEREOCHEMISTRY OF NEOANDROGRAPHOLIDE, A DITERPENE GLUCOSIDE FROM ANDROGRAPHIS
PANICULATA NEES. 2. EXTRACTS OF CEDRELA ODORATA L. 4. STRUCTURE OF ODORATIN, AN
UNDECANORTRITERPENE
TETRAHEDRON, 27, 5081, 1971 AND 28, 431, 1972
- 570 72 102 CHATTERJEE A
DITERPENOID CONSTITUENTS OF CALLICARPA MACRO-PHYLLAVAH. STRUCTURES AND STEREOCHEMISTRY OF
CALLITERPENONE AND GALLITERPENONE MONOACETATE
TETRAHEDRON, 28, 4319, 1972
- 570 72 103 CHIZHOV OS KOCHETKOV NK MALYSHEV NN
OLIGOSACCHARIDE SEQUENCING BY MEANS OF MASS SPECTROMETRY. 1. N-PHENYLOSOTRIAZOLE ACETATES. 2.
ACETATES OF N-ARYLGLYCOSYLAMINES
ORG. MASS SPECTRY, 5, 1145 AND 1157, 1971
- 570 72 104 CHONG R
CHEMISTRY OF FUNGI. 61. SYNTHESIS OF (+OR-)-SCLEROTIOLIN, OF (+OR-)-4,6-DIMETHYLOCTA-TRANS-2,
TRANS-4-DIENIC ACID, AND OF AN ANALOGUE OF ROTIOLIN. 62. SYNTHESIS OF (+OR-)-MITORUBIN, A
METABOLITE OF PENICILLIUM RUBRUM
J. CHEM. SOC. C, P3566 AND P3571, 1971
- 570 72 105 CLAYTON TA MORRISON WR
CHANGES IN FLOUR LIPIDS DURING STORAGE OF WHEAT FLOUR
J. SCI. FOOD AGR., 23, 721, 1972
- 570 72 106 COATEG RH CHIAW JC (1) RODINSON WH (2) SOWERBY RL (3)
1. STEREOSELECTIVE TOTAL SYNTHESIS OF (+OR-)-EREMOLIGENOL, (+OR-)-EREMOPHILENE, (+OR-)-VALERIANOL,
AND (+OR-)-VALENCENE. 2. STEREOSELECTIVE TOTAL SYNTHESIS OF (+OR-)-PRESQUALENE ALCOHOL. 3.
STEREOSELECTIVE TOTAL SYNTHESIS OF (+OR-)-ZIZENE
J. ORG. CHEM., 35, 2597, 1970, JACS, 93, 1785, 1971, AND JACS, 94, 5386, 1972
- 570 72 107 COLE WG
STUDIES OF CONFORMATION BY NMR AND COMPETITIVE REACTIONS BY MASS SPECTROMETRY
DOCTORAL THESIS, UNIV. OF CAMBRIDGE, ENGLAND. THESIS NO. D-1215/71. NLL REF. F, P195, 1969
- 570 72 108 COLLINS M
CHEMISTRY OF HOP CONSTITUENTS. 38. ALKENYLATION OF 2-ACYLCYCLOHEXANE-1,3,5-TRIONES AND FURTHER
EVIDENCE CONCERNING THE FINE STRUCTURE OF HOP BETA-ACIDS
J. CHEM. SOC. C, P3814, 1971

- 570 72 109 COLVIN EW
BRIDGED RING SYSTEMS. 16. SYNTHETIC APPROACH TO LYCOPODIUM ALKALOIDS
J. CHEM. SOC., PERKIN TRANS., I, P860, 1972
- 570 72 110 COMPERNDLE F VAN DER HA H (2) JANSSEN G (2)
1. MASS SPECTROMETRIC STRUCTURE ELUCIDATION OF DOG BILE AZOPIGMENTS AS THE ACYL GLYCOSIDES OF
GLUCOPYRANOSE AND XYLOPYRANOSE. 2. MASS SPECTRA OF STAPHYLOMYCIN-S COMPONENTS AND OF RELATED
CYCLODEPSIPEPTIDE ANTIBIOTICS
BIOCHEM. J., 125, 811, 1971 AND ORG. MASS SPECTRY, 6, 151, 1972
- 570 72 111 CONNOLLY JD MCCRINDLE R (1) HARDING AE (2)
1. TETRANOTRITERPENOID AND RELATED SUBSTANCES. 13. THE CONSTITUTION OF GRANDIFOLIOLONE, AN
APO-TIRUCALLOL DERIVATIVE FROM KHAYA GRANDIFOLIOLA (MELIACEAE). 2. CONSTITUENTS OF ERYTHROXYLON
SPECIES. VII. DITERPENOID FROM ERYTHROXYLON AUSTRALE
J. CHEM. SOC. C, P1715, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P1996, 1972
- 570 72 112 COOK CE
GERMINATION STIMULANTS. 2. THE STRUCTURE OF STRIGOL - A POTENT SEED GERMINATION STIMULANT FOR
WITCHWEED (STRIGA LUTEA LOUR)
JACS, 94, 6198, 1972
- 570 72 113 COOK JM LEQUESNE PW
STRUCTURE OF ALSTONISIDINE, A NOVEL DIMERIC INDOLE ALKALOID FROM ALSTONIA MUELLERIANA DOMIN
J. ORG. CHEM., 36, 582, 1971
- 570 72 114 COOPER DJ
GENTAMICIN ANTIBIOTICS. 2. SEPARATION AND DEGRADATION OF THE GENTAMICIN-C COMPONENTS.
PURPURASAMINES, A NEW CLASS OF NATURALLY OCCURRING 2,6-DIAMINOMONOSACCHARIDES. 3. GROSS STRUCTURES
OF THE GENTAMICIN-C COMPONENTS
J. CHEM. SOC. C, P2876 AND P3126, 1971
- 570 72 115 CORT LA STEWART RA
DIXOLAN-4-ONES AND THEIR STRUCTURES
J. CHEM. SOC. C, 1386, 1971
- 570 72 116 COX MT
PYRROLES AND RELATED COMPOUNDS. 19. SYNTHESIS OF PHYLLOPORPHYRINS RELATED TO CHLOROBIDIUM CHLOROPHYLL
(660)
J. CHEM. SOC. C, P1974, 1971
- 570 72 117 COXON OT
FLAVANOL DIGALLATES IN GREEN TEA LEAF
TETRAHEDRON, 26, 2819, 1972
- 570 72 118 CROSS BE
PIGMENTS OF GNOMONIA ERYTHROSTOMA. 1. STRUCTURES OF ERYTHROSTOMINONE, DEOXYERYTHROSTOMINONE, AND
DEOXYERYTHROSTOMINOL
J. CHEM. SOC., PERKIN TRANS., I, P380, 1972
- 570 72 119 CROSSLEY NS DOWELL R (2,3)
SECO-STERIODS. 1. 15,16-SECOPROGESTERONE. 2. 9,11-SECOPROGESTERONE. 3. 5,6-SECOPROGESTERONE
J. CHEM. SOC. C, P2491, P2496, AND P2499, 1971
- 570 72 120 CROTEAU R FAGERSON IS
CONSTITUENT CUTIN ACIDS OF CRANBURY CUTICLE
PHYTOCHEM., 11, 353, 1972
- 570 72 121 CROW WD
1. NEW ALKALOIDS OF ALSTONIA CONSTRICTA. 2. ROOT INHIBITORS IN EUCALYPTUS GRANDIS: NATURALLY
OCCURRING DERIVATIVES OF THE 2,3-DIOXABICYCLO(4.4.0)DECANE SYSTEM
AUSTRALIAN J. CHEM., 23, 2489, 1970 AND TETRAHEDRON LETRS, P1353, 1971
- 570 72 122 DANIELS P ERDTMAN H NISHIMUR K
ATHROTAXIN, A C17-PHENOLIC CONSTITUENT FROM ATHROTAXIS SELAGINOIDES DON
J. CHEM. SOC., CHEM. COMMUN., P246, 1972
- 570 72 123 DAWIDAR AM FAYEZ MB
THIN-LAYER CHROMATOGRAPHIC DETECTION AND ESTIMATION OF STEROID SAPOGENINS IN FENUGREEK. STEROID
SAPOGENINS. XIV.
Z. ANAL. CHEM., 259, 283, 1972
- 570 72 124 DAWSON TM
CALCIFEROL AND ITS RELATIVES. 12. (5)-3-ETHYNYL-4-METHYLCYCLOHEX-3-EN-1-OL. 16. TOTAL SYNTHESIS OF
PRECALCIFEROL
J. CHEM. SOC. C, P2352 AND P2960, 1971
- 570 72 125 DEKEUKEL D SNATZKE G
CIRCULAR DICHROSIM. 51. CIRCULAR DICHROSIM OF DERIVATIVES OF HOP CONSTITUENTS CONTAINING A FIVE
MEMBERED RING (COTTON EFFECT, HUMULINIC ACIDS, ISOHUMULONES, CYCLOPENTANEDIONES)
TETRAHEDRON, 28, 2011, 1972
- 570 72 126 DELLE MONACHE F
GEOMETRICAL ISOMERISM IN BETA-METHYL-ALPHA,BETA UNSATURATED DITERPENIC ACIDS BY NMR SPECTROSCOPY
ATTI ACCAD. NAZ. LINCEI, REND., CL. SCI. FIS., MAT. NATUR., 49, NO. 5, 283, 1971
- 570 72 127 DENNE WA
ABSOLUTE STRUCTURE OF PORANTHERINE
TETRAHEDRON LETRS, P3107, 1971
- 570 72 128 DEVLIN JP
PHYTOCHEMICAL EXAMINATION OF THE LICHEN, LECANORA RUPICOLA (L.) ZÄHLER
J. CHEM. SOC. C, P1318, 1971
- 570 72 129 DOLBY LJ ESFANDIARI Z (2)
1. STUDIES OF THE SYNTHESIS OF THE B, C, AND D RINGS OF GIBBERELLIC ACID. 2. MODEL STUDIES OF
SYNTHESIS OF ECHITAMINE AND RELATED INDOLE ALKALOIDS
J. ORG. CHEM., 36, 1277, 1971 AND 37, 43, 1972
- 570 72 130 DONNELLY WJG SHANNON PVR (1) GRUNDON MF (2)
1. SYNTHETIC APPROACHES TO THE DEOXYHUMULONES: SOME NEW 2,2-DIMETHYLCHROMENS FROM
PHLOROACETOPHENONE. 2. QUINOLINE ALKALOIDS. 12. ALKALOIDS AND COUMARINS OF ORIXA JAPONICA THUNB.
IDENTIFICATION OF A NEW QUINOLINE ALKALOID, ORIXINONE
J. CHEM. SOC., PERKIN TRANS., I, P25 AND P2116, 1972

- 570 72 131 DOSKOTCH RM FAIRCHILD EH (1) KUBELKA W (1) MALIK MY (2) HUFFORD CD (2)
1. REVISION OF STRUCTURES OF LUNARIA ALKALOIDS LBX AND LBZ. 2. ANTITUMOR AGENTS. V. CYTOTOXIC
CARDENOLIDES FROM CRYPTOSTEGIA GRANDIFLORA (ROXB) R. & B. 3. FURTHER STUDIES ON THE SESQUITERPENE
LACTONES TULIPINOLIDE AND EPITULIPINOLIDE FROM LIRIODENDRON TULUPIFERA L.
EXPERIENTIA, 28, 382, 1972. J. PHARM. SCI., 61, 570, 1972. AND J. ORG. CHEM., 37, 2740, 1972
- 570 72 132 DUC DK FETIZON M FLAMENT J
SYNTHESIS OF (+)-14-MIBAOINE
J. CHEM. SOC., CHEM. COMMUN., P886, 1972
- 570 72 133 DUNN AR STOODLEY RJ
CONFORMATIONAL BEHAVIOUR OF SOME DIHYDRO-1,4-THIAZINES. II.
TETRAHEDRON, 28, 3315, 1972
- 570 72 134 DUBBECK HW
STRUKTUR UND LAGE DES DIMEREN GLEICHGEWICHTS CON ALPHA-ALKOXYCYCLOHEXANONEN
TETRAHEDRON, 27, 2927, 1971
- 570 72 135 DUTTA PK
EUPHORBETIN: A NEW BICOUMARIN FROM EUPHORBIA LATHYRIS L.
TETRAHEDRON LETRS, P601, 1972
- 570 72 136 DYKE SF ELLIS AC
SYNTHESIS OF ISOPAVIEN ALKALOIDS. I.
TETRAHEDRON, 27, 3803, 1971
- 570 72 137 EADON G DJERASSI C
SYNTHESIS AND BIOLOGICAL ACTIVITY OF D-BISHOMO STEROIDS
J. MED. CHEM., 15, 89, 1972
- 570 72 138 ECKHARDT CJ BERNSTEIN J
MOLECULAR CONFORMATION AND ELECTRONIC STRUCTURE. SOLID STATE SPECTRUM OF A PLANAR ANIL
JACS, 94, 3247, 1972
- 570 72 139 EISNER U
HETEROCYCLIC REARRANGEMENTS. 6. STRUCTURE AND STEREOCHEMISTRY OF A SULPHUR BRIDGED TETRAHYDROAZEPINE
AND DERIVED SULPHOXIDES, BY X-RAY CRYSTALLOGRAPHY AND NMR SPECTROSCOPY
J. CHEM. SOC., PERKIN TRANS., I, P357, 1972
- 570 72 140 EKONG DEU SELEMA MD
THE MELIACINS (LIMONOLIDS). ACID CATALYSED REACTIONS OF MELIACIN EPOXIDES
J. CHEM. SOC., PERKIN TRANS., I, P1084, 1972
- 570 72 141 ELGAMAL MH FAYEZ MB
ISOLATION OF FORMONONETIN FROM ROOTS OF GLYCYRRHIZA GLABRA LIAN. COLLECTED LOCALLY
INDIAN J. CHEM., 10, 128, 1972
- 570 72 142 ELIAS H
IDENTIFICATION OF STRUCTURE BY COMMON SENSE APPROACH
J. MED., 95, 59, 1972
- 570 72 143 ELKIN YN
MASS SPECTROMETRIC STUDY OF CERTAIN TRITERPENES OF DAMMARANIC SERIES
KHIM. PRIROD. SOEDIN., NO. 3, P286, 1971 IN RUSSIAN
- 570 72 144 ELYAKOV GB PERETOLCHIN NV

CUCUCARIOSIDE-C. A NEW TRITERPENIC GLYCOSIDE FROM HOLOTURIA CUCUMARIA FRAUDATRIX
KHIM. PRIROD. SOEDIN., P637, 1970 IN RUSSIAN
- 570 72 145 ENZELL CR
TOBACCO CHEMISTRY. 5. NORSOLANESENE, A C44-ISOPRENOID HYDROCARBON FROM TOBACCO
TETRAHEDRON LETRS, P1983, 1971
- 570 72 146 ERDMAN TR THOMSON RH
NATURALLY OCCURRING QUINONES. 20. ANTHRAQUINONES IN THE CRINOIDS HETEROMETRA SAVIGNII (J. MULLER)
AND LAMPROMETRA KLUNZINGERI (HARTLAUB)
J. CHEM. SOC., PERKIN TRANS., I, P1291, 1972
- 570 72 147 ERNI F CLERC JT
STRUKTURAUFKLARUNG ORGANISCHER VERBINDUNGEN DURCH COMPUTERUNTERSTUTZTEN VERGLEICH SPEKTRALER DATEN
HELV. CHIM. ACTA, 55, 489, 1972
- 570 72 148 EVANS WC
ALKALOIDS OF CYPHOMANDRA RETACEA SPINDT
J. CHEM. SOC., PERKIN TRANS., I, P2017, 1972
- 570 72 149 FEHLNER JR
STRUCTURE OF RISTOCETIN-A
PROC. NAT. ACAD. SCI. U.S.A., 69, 2420, 1972
- 570 72 150 FERRIS JP
LYTHRACEAE ALKALOIDS. 7. STRUCTURE AND STEREOCHEMISTRY OF THE BIPHENYL ALKALOIDS OF DECODON AND
MEMIA. 8. STRUCTURE AND STEREOCHEMISTRY OF THE BIPHENYL ETHER ALKALOIDS FROM DECODON
VERTICILLATUS. 9. ISOLATION AND STRUCTURE ELUCIDATION OF THE ALKALOIDS OF LAGERSTROEMIA INDICA L.
JACS, 93, 2942, 2953, AND 2958, 1971
- 570 72 151 FINDLAY JA RADICS L
FLAVIPUCINE (3'-ISOVALERYL-6-METHYLPYRIDINE-3-SPIRO-2'-OXIRAN-2(1H)-4(3H)-DIONE), AN ANTIBIOTIC FROM
ASPERGILLUS FLAVIPES
J. CHEM. SOC., PERKIN TRANS., I, P2071, 1972
- 570 72 152 FINNEGAN RA PATEL JK
CONSTITUENTS OF MAMMEA AMERICANA L. 10. ISOLATION OF SOME MONO AND DI-HYDROXYXANTHONES. OBSERVATIONS
ON THE SYNTHESIS OF 1,5-, 3,5-, 1,6-, AND 1,7-DIHYDROXYXANTHONE
J. CHEM. SOC., PERKIN TRANS., I, P1896, 1972
- 570 72 153 FLAMENT I OHLOFF
RECHERCHES SUR LES AROMES. 18. SUR L'AROME DE VIANDE DE BOEUF GRILLEE. 1. PYRAZINES
HELV. CHIM. ACTA, 54, 1911, 1971

- 570 72 154 FONG HH TROJANKO M TROJANEK J
ALKALOID SCREENING. II.
LLOYDIA. 35. 117. 1972
- 570 72 155 FORCELLESE ML
STRUCTURE OF ISOINCENSE OXIDE
TETRAHEDRON. 28. 325. 1972
- 570 72 156 FRANCIS E RAHMAN R SAFE S TAYLOR A
SPORIDESMINS. 12. ISOLATION AND STRUCTURE OF SPORIDESMIN-G, A NATURALLY OCCURRING 3,6-
EPITETRATHIOPIPRAZINE-2,5-DIONE
J. CHEM. SOC., PERKIN TRANS., I. P470. 1972. AD-742 577. 1971
- 570 72 157 FRANCK B GANTZ D HUPER F
TOTAL SYNTHESIS OF (ALPHA, GAMMA-C(14)2)UROPORPHYRIN. III.
ANGEW. CHEM. INT. ED. ENGL., 11. 420. 1972
- 570 72 158 FRENCH J
IDENTIFICATION OF THE ACRYLATE PROPPHYRIN S-411 FROM MECONIUM
BIOCHEM. J., 120. 393. 1970
- 570 72 159 FRIEDRICH-FIECHT J SPITELLER G
ANWENDUNG DER MASSENSPEKTROMETRIE ZUR STRUKTURAUFKLARUNG VON ALKALOIDEN. 10. NEUE ALKALOIDE AUS
ERYTHROPHLEUM GUINEENSE UND UBER DAS MUAWIN
CHEM. BER., 104. 3535. 1971
- 570 72 160 FROST PJ WARD JP
STEROLS IN VERGENIA ANTHELMINTICA SEEDS. 8.14.(2)-24(28)-STIGMASTSTRIENOL. A NEW PHYTOSTEROL
REC. TRAV. CHIM., 89. 1054. 1970
- 570 72 161 FUCHS B
STRUCTURE AND CONFORMATION OF HETEROCYCLES. 6. CIS-1,4,5,8-TETRAWXADECALIN (HEXAHYDRO-P-DIOXINO(2,3-
B)-P-DIOXIN) SYSTEM: A CHEMICAL, CONFORMATIONAL, AND CRYSTALLOGRAPHIC STUDY
J. CHEM. SOC., PERKIN TRANS., I. P357. 1972
- 570 72 162 FUJITA E SAEKI Y
FUJITA E SAEKI Y
LYTHRACEOUS ALKALOIDS. 6. STRUCTURES OF LYTHRANCINE-I, -II, -III, AND -IV AND LYTHRANCEPINE-I, -II,
LYTHRACEOUS ALKALOIDS. 6. STRUCTURES OF LYTHRANCINE-I, -II, -III, AND -IV AND LYTHRANCEPINE-I, -II,
AND -III
AND -III
J. CHEM. SOC., PERKIN TRANS., I. P2141. 1972
J. CHEM. SOC., PERKIN TRANS., I. P2141. 1972
- 570 72 163 FUJITA S NOZAKI H IMAMURA K (1)
1. ABSOLUTE CONFIGURATIONS OF 2-PHENYLAZIRIDINE AND ITS DERIVATIVES. 2. HETEROPHEANES, SYNTHESIS AND
STRUCTURES
BULL. CHEM. SOC. JAPAN. 44. 1975. 1971 AND J. SYN. ORG. CHEM. JAPAN. 30. 679. 1972
- 570 72 164 FUKUOKA M
STUDIES ON THE CONSTITUENTS OF ASCLEPIADACEAE PLANTS. 29. MASS SPECTRA OF C/D CIS PREGNANE
DERIVATIVES
CHEM. PHARM. BULL. (TOKYO). 19. 1469. 1971
- 570 72 165 FUKUZAWA A
1. LAUREFUCIN AND ACETYLLAUREFUCIN. NEW BROND COMPOUNDS FROM LAURENCIA NIPPONICA YAMADA. 2. ACID
CATALYZED REARRANGEMENT OF LAUREATIN TO ISOLAUREATIN AND RELATED REACTIONS
TETRAHEDRON LTRS. P3. 1972 AND J. ORG. CHEM., 37. 680. 1972
- 570 72 166 FURUYA T
ECHINATIN. A NEW CHALCONE FROM TISSUE CULTURE OF GLYCYRRHIZA ECHINATA.
TETRAHEDRON LTRS. P2567. 1971
- 570 72 167 GASKIN P MACMILLA J GANGULY SN
IDENTIFICATION OF GIBBERELLIN FROM SONNERATIA APETALA HAM AS TETRAHYDROGIBBERELLIN-A3
CHEM. IND. (LONDON). P424. 1972
- 570 72 168 GEBREYESUS T DJERASSI C
ALKALOID STUDIES. 66. REACTIONS OF SOME ASPIDOSPERMA ALKALOIDS WITH M-CHLOROPERBENZOIC ACID. REMOVAL
OF THE ANGULAR ETHYL GROUP OF ASPIDOSPERMINE
J. CHEM. SOC., PERKIN TRANS., I. P849. 1972
- 570 72 169 GELLA EV BESHKO NP POPOVA TP
GALEROSID. A NEW FLAVONOID GLYCOSIDE OF SCUTELLARIA GALERICULATA
KHIM. PRIROD. SOEDIN., P242. 1972 IN RUSSIAN
- 570 72 170 GIORDANO F MAZZARELLA L
SYNTHESIS AND STEREOCHEMISTRY OF DELTA(2,2')-BI-(2H-1,4-BENZOTHAZINE) DERIVATIVES. CRYSTAL
STRUCTURES OF CIS AND TRANS-DELTA(2,2')-BI-(3-P-BROMOPHENYL-2H-1,4-BENZOTHAZINE)
J. CHEM. SOC. C. P2610. 1971
- 570 72 171 GOLDBERG SI LIPKIN AH
LEGUMINOSAE ALKALOIDS. 8. DEVELOPMENT OF AN IMPROVED SYNTHESIS OF ANAGRYNE AS A POTENTIAL ROUTE TO
OTHER LUPIN ALKALOIDS
J. ORG. CHEM., 37. 1823. 1972
- 570 72 172 GONZALEZ AG
1. TAONDIOL. A NEW COMPONENT FROM TAONIA ATOMARIA. 2. CONSTITUENTS OF LABIATAE. IX. TRACHINODIOL AND
TRACHINOL. TWO NEW DITERPENES FROM SIDERITIS CANARIENSIS AIT. 3. NEW SOURCES OF STERIOD
SAPOGENINS. XIV. 25S-RUSCOGENIN AND SANSEVIERIGENIN. TWO NEW SPIROSTAN SAPOGENINS FROM SANSEVIERIA
TRIFASCIATA
TETRAHEDRON LTRS. P2729 AND P3097. 1971. AND TETRAHEDRON. 28. 1289. 1972
- 570 72 173 GORDON-GRAY CG WELLS RB
SWAZINE. A NEW ALKALOID FROM SENECIO SWAZIENSIS COMPTON: A CHEMICAL AND X-RAY CRYSTAL STUDY OF A
NOVEL SPIRO DILACTONE
TETRAHEDRON LTRS. P707. 1972
- 570 72 174 GOTTLIEB OR
CHEMISTRY OF BRAZILIAN GUTTIFERAE. 26. XANTHONES FROM KIELMEYERA SPECIOSA
PHYTOCHEM., 9. 2537. 1970

- 570 72 175 GOVINDACHARI TR NAGARAJA K (2) NATARAJA S (2)
1. XANTHONES OF GARCINIA MANGOSTANA LINN. 2. STUDIES IN PROTOBERBERINE ALKALOIDS. 4. SYNTHESIS OF
13-METHYL-PSI-COPTISINE
TETRAHEDRON. 27. 3919. 1971 AND INDIAN J. CHEM., 9. 1313. 1971
- 570 72 176 GOVINDACHARI TR PARTHASARATHY PC DESAI HK (2) MCDI JD (3)
1. CRYPTOCARYALACTONE, A NOVEL 5,6-DIHYDRO-2H-PYRAN-2-ONE FROM CRYPTOCARYA BOURDILLONI GAMB. 2.
ANCISTROCLADININE, A MINOR ALKALOID FROM ANCISTROCLADUS HEYNEANUS WALL. 3. CHEMICAL INVESTIGATION
OF CRYPTOCARYA BOURDILLONI GAMB. CRYPTOCARYALACTONE, A NEW KAWA-TYPE LACTONE. 4. CRYPTOCARYONE, A
NOVEL 5',6'-DIHYDROCHALCONE FROM CRYPTOCARYA BOURDILLONI GAMB
TETRAHEDRON LTRS. P3401. 1971. INDIAN J. CHEM., 9. 1421. 1971. INDIAN J. CHEM., 10. 149. 1972. AND
TETRAHEDRON LTRS. P3419. 1972
- 570 72 177 GREEN AE MULLER JC OURISSON G
NEW APPROACH TO ALPHA-METHYLENE-GAMMA-BUTYROLACTONES. 1. SYNTHESIS OF (-)-FRULLANOLIDE. 2. SYNTHESIS
OF (+)-ARBUSCULIN-B
TETRAHEDRON LTRS. P2489 AND P3375. 1972
- 570 72 178 GRETHE G
1. SYNTHESIS OF CINCHONA ALKALOIDS VIA QUINUCLIDINE PRECURSORS. 2. SYNTHESIS OF 9-EPI-QUININE AND
9-EPI-QUINIDINE
JACS. 93. 5904. 1971 AND HELV. CHIM. ACTA. 55. 1044. 1972
- 570 72 179 GUADAGNI DG BUTTERY RG TURNBAUG JG (1) VENSTROM DW (2)
1. ODOUR THRESHOLDS AND SIMILARITY RATINGS OF SOME POTATO CHIP COMPONENTS. 2. CONTRIBUTION OF SOME
VOLATILE TOMATO COMPONENTS AND THEIR MIXTURES TO FRESH TOMATO AROMA
J. SCI. FOOD AGR., 23. 1435 AND 1445. 1972
- 570 72 180 GUNN PA
SYNTHESIS OF A NEDATISIRANONE, THE ENANTIOMER OF A KETONE OBTAINED BY THE ACID CATALYSED
REARRANGEMENT OF ISOPHYLLOCLADENE EPOXIDE
J. CHEM. SOC. C. P1018. 1971
- 570 72 181 GUSCHLBAUER W FRIC I HOLY A
ON THE STRUCTURE OF GUANYL 3'-5' URIDINE (GPU)
CEA-CNF-1986. COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE. CENTRE D'ETUDES NUCLEAIRES AND
CESKOSLOVENSKA AKADEMIE VED. PRAHA, USTAV ORGANICKE CHEMIE A BIOCHEMIE. 1971. 4P. CNF-710910-4.
NTIS. FROM 1ST EUROPEAN BIOPHYSICS CONGRESS. BADEN, AUSTRIA. SEPT. 14. 1971
- 570 72 182 GUTZWILLER J
DETERMINATION OF STEREOCHEMISTRY AND REACTIONS OF 3-HYDROXY-3-METHYL CEPHALOSPORINS
TETRAHEDRON LTRS. P3429. 1971
- 570 72 183 GUTZWILLER J
NOVEL SYNTHESIS OF RACEMIC AJMALICINE, 19-EPIAJMALICINE, TETRAHYDROALSTONINE, AND AKUAMMIGINE
JACS. 93. 5907. 1971
- 570 72 184 HAGER LP
CHLOROPEROXIDASE. 9. THE STRUCTURE OF COMPOUND-I
JACS. 94. 4364. 1972
- 570 72 185 HAMANAKA N MATSUMOTO T
PARTIAL SYNTHESIS OF GRAYANOTOXIN (A-NOR-B-HOMO-KAURANOID)
TETRAHEDRON LTRS. P3087. 1972
- 570 72 186 HANSEL R SCHULZ J PELTER A

STRUCTURE OF Silybin: SYNTHETIC STUDIES
J. CHEM. SOC., CHEM. COMMUN., P195. 1972
- 570 72 187 HANSEN JF
1. PROTON MAGNETIC RESONANCE AND MASS SPECTRAL STUDIES OF THE (2)BENZOPYRANO(3,4-G)INDOLE ALKALOIDS
OF THE AMARYLLIDACEAE. 2. PHOTOCHEMICAL SYNTHESIS AND SPECTRAL EXAMINATION OF SOME BRIDGED
BIPHENYLS
THESIS. DUKE UNIV., DURHAM, N.C. UNIV. MICROFILMS ORDER NO. 65-16.755. DISS. ABS., 32B. 9. 5105.
1972
- 570 72 188 HANSFORD GS
PIGMENTS OF PSEUDOMONAS SPECIES. 4. IN VITRO AND IN VIVO CONVERSION OF
6-METHYL-PHICHAZINIUM 1 GARDOMYLATE INTO ACRONGINOGEN A
J. CHEM. SOC., PERKIN TRANS., 1. P103. 1972
- 570 72 189 HARRISON DM MACMILLAN J
TWO NEW GIBBERELLINS, A24 AND A25, FROM GIBBERELLA FUJIKURDII: THEIR ISOLATION, STRUCTURE, AND
CORRELATIONS WITH GIBBERELLINS A13 AND A15
J. CHEM. SOC. C. P631. 1971
- 570 72 190 HARTEL R
STRUKTUR DES DESOXYCYCLOBUXOXAZIN-A
TETRAHEDRON LTRS. P2741. 1971
- 570 72 191 HARVEY RG LINDOM OF
METAL-AMMONIA REDUCTION. 14. FLUORANTHENE: CORRELATION OF PRIMARY PRODUCT STRUCTURE WITH IHD
THEORETICAL PREDICTION
TETRAHEDRON. 28. 2909. 1972
- 570 72 192 HAUSER D SIGG HP
ISOLIERUNG UND ABBAU VON CONDARIN
HELV. CHIM. ACTA. 54. 1178. 1971
- 570 72 193 HAYAKAWA T YAMAMOTO H AOTO N
SYNTHESIS AND CONFORMATIONAL STUDIES OF POLY-BETA, N-ALKYL L-ASPARAGINES
BIOPOLYMERS. 11. NO. 1. XXX. 1972
- 570 72 194 HAYASHI T AKANO M (1) YOKONO T (1) KAKISAWA H (2) ITO S (2)
1. STUDIES ON GEOMETRICAL ISOMERISM BY NMR. V. STEREOCHEMISTRY OF 5-SUBSTITUTED
4-ALKOXYCARBONYL-2-CARBAMOXYLIMINO-1,3-OXATHIOLANES. 2. STRUCTURE OF FURTHER NORDITERPENOIDS OF
PODOCARPUS MACROPHYLLUS. INUMAKILACTONE-A GLUCOSIDE, A PLANT GROWTH INHIBITOR AND INUMAKILACTONE-B
BULL. CHEM. SOC. JAPAN. 45. 578. 1972 AND TETRAHEDRON LTRS. P3385. 1972

- 570 72 195 HAYNES LJ
C-GLYCOSYL COMPOUNDS. 6. ALDESIN, A C-GLUCOSYLCHROMONE FROM *ALO E* SP.
J. CHEM. SOC. C. P2581, 1970
- 570 72 196 HEATHCOCK CH RATCLIFFE R
A STEREOSSELECTIVE TOTAL SYNTHESIS OF THE GUAIAZULENIC SESQUITERPENOIDS ALPHA-BULNESENE AND BULNESOL
JACS, 93, 1746, 1971
- 570 72 197 HERZ W BHAT SV (1) SANTHANA PS (2) WAHLBERG I (2)
1. WOODHOUSIN, A NEW GERMACRANOLIDE FROM *BAHIA WOODHOUSEI* (GRAY) GRAY. 2. 3-EPI-BETULINIC ACID, A
NEW TRITERPENOID FROM *PICRAMNIA PENTANDRA*
J. ORG. CHEM., 37, 906, 1972 AND PHYTOCHEM., 11, 3061, 1972
- 570 72 198 HEYNS K KOLL P PAULSEN H (1)
1. DARSTELLUNG, STRUKTURAUFKLARUNG UND REAKTIONEN DER DIMEREN DER 1,6-
ANHYDRO-BETA-D-HEXOPYRANOS-3-ULOSEN. 2. DIMERE HALBACETALE VON 1,6-ANHYDROHEXOSULOSEN. II.
DARSTELLUNG UND STRUKTURAUFKLARUNG DIMERER HALBACETALE VON 1,6-
ANHYDRO-BETA-D-LYXO-HEXOPYRANOSULOSEN
CHEM. BER., 104, 2553, 1971 AND CHEM. BER., 104, NO. 12, XXX, 1971
- 570 72 199 HIKINO H TAKEMOTO T ONO M (1) TAKAHASHI T (2) KONNO C (3)
1. CONSTITUENTS OF WILD JAPANESE VALERIAN ROOT. 2. STRUCTURE OF PTEROSIDE-A AND C. GLYCOSIDES OF
PTERIDIUM AQUILINUM VAR. LATIUSCULUM. 3. STRUCTURE OF DEHYDROCURDIONE, A SESQUITERPENOID OF
CURCUMA ZEDDARIA. 4. ARTHROPOD MOULTING HORMONES FROM PLANTS, ACHYRANTHES AND CYATHULA
J. PHARM. SOC. JAPAN (YAKUGAKU ZASSHI), 92, 479, 1972, CHEM. PHARM. BULL. (TOKYO), 20, 210, 1972,
CHEM. PHARM. BULL. (TOKYO), 20, 987, 1972, AND NATURWISSENSCHAFTEN, 59, 91, 1972
- 570 72 200 HILDESHE J HILDESHE R LEDERER E
SYNTHESE D'INHIBITEURS DES METHYL-TRANSFERASES: ANALOGUES DE LA S-ADENOSYL HOMOCYSTEINE
BIOPOLYMERS, 11, NO. 1, XXX, 1972
- 570 72 201 HILLER K KEIPERT M PFEIFER S
UBER DIE SAPONINE VON *HYDROCOTYLE VULGARIS* L.
PHARMAZIE, 26, 780, 1971
- 570 72 202 HIRAI K SUZUKI KT NOZOE S
STRUCTURE AND CHEMISTRY OF SICCANIN AND RELATED COMPOUNDS (CHROMENES, OXIDATION OF BENZYLIC
METHYLENE, ANTIBIOTIC, CLEAVAGE REACTION OF C-O BOND)
TETRAHEDRON, 27, 6057, 1971
- 570 72 203 HOLMWOOD GM ROBERTS JC
STUDIES IN MYCLOGICAL CHEMISTRY. 29. TOTAL SYNTHESIS OF (+OR-)-O-METHYLAVERSIN ((+
OR-)-TRI-O-METHYLVERSICOLORIN-B): STRUCTURE OF AVERSIN
J. CHEM. SOC. C. P3899, 1971
- 570 72 204 HOLUB M
ON TERPENES. 206. NEUTRAL COMPONENTS OF THE LIGHT PETROLEUM EXTRACT OF THE ROOT OF *LASERPITIUM*
SILER, L. THE STRUCTURE OF THE SESQUITERPENIC LACTONE MONTANOLIDE
COLLECT. CZECH. CHEM. COMMUN., 35, 3296, 1970
- 570 72 205 HOOPER JW
CHEMISTRY OF FUNGI. 65. STRUCTURE OF ERGOCHRYNIN-A, ISOERGOCHRYNIN-A, AND ERGOXANTHIN AND OF
SECALONIC ACIDS-A, B, C, AND D
J. CHEM. SOC. C. P3580, 1971
- 570 72 206 HSU I SMALLEY E STRONG F RIBELIN W
- IDENTIFICATION OF T-2 TOXIN IN MOLDOY CORN ASSOCIATED WITH A LETHAL TOXICOSIS IN DAIRY CATTLE
APPL. MICROBIOL., 24, 684, 1972
- 570 72 207 HUI WH
STRUCTURES OF THREE C32 TRITERPENOIDS FROM *NEOLITSEA PULCHELLA*
J. CHEM. SOC. C. P2826, 1971
- 570 72 208 HUNECK S SCHREIBE K (2) SNATZKE G (2)
1. LICHEN SUBSTANCES. LXXIII. COLENSOIC ACID, A NEW DEPSIDONE FROM *STEREOCAULON COLENSOI*. 2.
MIRIOUIDIC ACID, A NEW DEPSIDE FROM *LECIDEA LILIENTROENII* AND *LECIDEA LEUCOPHAEA*
PHYTOCHEM., 9, 2567, 1970 AND Z. NATURFORSCH., 26B, 1357, 1971
- 570 72 209 HUNNEMAN DH EGLINTON G
CONSTITUENT ACIDS OF GLYMNOSPERM CUTINS
PHYTOCHEM., 11, 1989, 1972
- 570 72 210 IBRAGIMOVA MU
STRUCTURE OF CERGONINE
KHIM. PRIROD. SOEDIN., P638, 1970 IN RUSSIAN
- 570 72 211 IMAI S
STRUCTURES OF STACHYSTERONE-A, THE FIRST NATURAL C27 STEROID WITH A REARRANGEMENT METHYL GROUP, AND
STACHYSTERONE-B
JACS, 92, 7510, 1970
- 570 72 212 INOUE H NISHIMUR T (1) TOKURA K (2) HAYASHI T (2)
1. IRIDOID GLUCOSIDES OF *CERBERA MANGHUS*. 2. STUDIES ON TRITERPENOIDS OF *TRAMETES DICKINSONII* BERK. I.
ISOLATION OF SEVERAL TRITERPENOIDS AND STRUCTURE OF TRAMETOSIDE
PHYTOCHEM., 11, 1852, 1972 AND J. PHARM. SOC. JAPAN (YAKUGAKU ZASSHI), 92, 621, 1972
- 570 72 213 INOUE H UEDA S (1,2) AOKI Y (1) TAKEDA Y (2) NISHIOKA T (3)
STUDIES ON MONOTERPENE GLUCOSIDES AND RELATED NATURAL PRODUCTS. (1) XVII. INTERMEDIACY OF
7-DESOXYLOGANIC ACID AND LOGANIN IN BIOSYNTHESIS OF SEVERAL IRIDOID GLUCOSIDES. (2) XVIII.
FORMATION SEQUENCES OF IRIDOID GLUCOSIDES IN HIGHLY OXIDIZED LEVELS. (3) XIX. UBER DIE STRUKTUR
DES NUZHENIDS, EINES BITTER SCHMECKENDEN GLUCOSIDS AUS *LIGUSTRUM LUCIDUM* SOWIE *JAPONICUM* (A NEW
SECOIRIDOID GLUCOSIDE FROM CHINESE CRUDE DRUG 'NUZHENZI')
CHEM. PHARM. BULL. (TOKYO), 20, 1287 AND 1305, 1972, AND TETRAHEDRON, 28, 4231, 1972
- 570 72 214 INUBUSHI Y
TRITERPENOID CONSTITUENTS OF *LYCOPodium PHLEGMARIA* L.
J. CHEM. SOC. C. P3109, 1971
- 570 72 215 IRIKAWA H
DAPHNIPHYLLUM ALKALOIDS. III. DK-2
TETRAHEDRON, 28, 3727, 1972

- 570 72 216 ISHII H HOSOYA K
BOCCONOLINE: A NEW TYPE DIHYDROBENZO(C)PHENANTHRIDINE ALKALOID POSSESSING A UNIQUE SUBSTITUENT AT C6 POSITION
TETRAHEDRON LTRS, P2429, 1971
- 570 72 217 ISKANDAR S SHAYMARD RA YUNUSOV SY VINOGRAD VI (3)
1. STRUCTURE AND SYNTHESIS OF LEONITIDINE. 2. ORD CURVES OF QUINOLIZIDINE ALKALOIDS. 3. DIMETHAMIN, A NEW BIMOLECULAR ALKALOID OF THERMOPSIS ALTERNIFLORA
KHIM. PRIROD. SOEDIN., P631 AND P636, 1971 AND P218, 1972
- 570 72 218 ISRAILOV IA
STRUCTURE OF FUMARIDINE AND FUMARAMINE
KHIM. PRIROD. SOEDIN., P588, 1970 IN RUSSIAN
- 570 72 219 IWATAKI I COMIN J
STUDIES ON ARGENTINE PLANTS. 31. ALKALOIDS FROM STRYCHNOS BRASILIENSIS
TETRAHEDRON, 27, 2541, 1971
- 570 72 220 JACKSON B LOCKSLEY HD (2) SCHEINMA F (2) WCLSTENHOLME WA (2)
1. EXTRACTIVES FROM POISONOUS BRITISH PLANTS. 1. STRUCTURE OF ALPINUMISOFLAVONE, A NEW PYRANOISOFLAVONE FROM TABURNUM ALPINUM J. PRESL. 2. EXTRACTIVES FROM GUTTIFERAE. XXII. ISOLATION AND STRUCTURE OF FOUR NOVEL BIFLAVANONES FROM HEARTWOODS OF GARCINIA BUCHANANII BAKER AND G. EUGENIIFOLIA WALL
J. CHEM. SOC. C, P3389 AND P3791, 1971
- 570 72 221 JACKSON JR STOODLEY RJ
STUDIES RELATED TO PENICILLINS. 7. STRUCTURE OF EPIMERS DERIVED FROM 6-SUBSTITUTED PENICILLANIC ACIDS
J. CHEM. SOC., PERKIN TRANS., I, P895, 1972
- 570 72 222 JACOBS HJC HAVINGA E
COTTON EFFECTS AND CONFORMATIONS OF SKELETALLY ISOMERIC SATURATED 3-OXO-STERIODS
TETRAHEDRON, 28, 135, 1972
- 570 72 223 JEFFERSON A
STUDIES IN THE XANTHONE SERIES. 18. ISOLATION OF GAMMA-MANGOSTIN FROM GARCINIA MANGOSTANA, AND PREPARATION OF THE NATURAL MANGOSTINS BY SELECTIVE DEMETHYLATION
AUSTRALIAN J. CHEM., 23, 2539, 1970
- 570 72 224 JEFFS PW HANSEN JF
STRUCTURE AND STEREOCHEMISTRY OF CLEAVININE
TETRAHEDRON, 27, 5065, 1971
- 570 72 225 JENTE
UBER DIE INHALTSSTOFFE VON ANACYCLUS PYRETHRUM DC
CHEM. BER., 105, 1694, 1972
- 570 72 226 JOHNSON AW
VANCOSAMINE: STRUCTURE AND CONFIGURATION OF A NOVEL AMINO SUGAR FROM VANCAMYCIN
J. CHEM. SOC., PERKIN TRANS., I, P2153, 1972
- 570 72 227 JOHNSON BM TAYLOR JW
1. STEREOCHEMISTRY OF ACETALIZATION OF HEXAFLUOROACETONE WITH A BROMOHYDRIN. 2. HEXAFLUOROACETONE KETALS AS DERIVATIVES FOR POSITIONAL AND GEOMETRICAL CHARACTERIZATION OF DOUBLE BONDS
J. CHEM. SOC., CHEM. COMMUN., P296, 1972 AND ANAL. CHEM., 44, 1438, 1972
- 570 72 228 JOHNSON GS
A MASS SPECTROMETRIC APPROACH TO THE INVESTIGATION OF OLIGOSACCHARIDE STRUCTURE
THESIS. KANSAS STATE UNIV., MANHATTAN, UNIV. MICROFILMS ORDER NO. 72-1792, DISS. ABS., 328, 6, 3158, 1971
- 570 72 229 JONES RAY
CONFORMATIONAL ANALYSIS OF SATURATED HETEROCYCLES. 42. 1,2-DIMETHYLHEXAHYDROPYRIDAZINE
J. CHEM. SOC., PERKIN TRANS., II, P34, 1972
- 570 72 230 JOSHI BS
REVISED STRUCTURE OF ENHYDRIN
TETRAHEDRON LTRS, P2373, 1971
- 570 72 231 KATSE H MINAKATA K (2)
1. ISOLATION OF NEW CHLOROSIS INDUCING SUBSTANCES PRODUCED BY FUNGUS. 2. STRUCTURE OF VIRIDOMICINIC ACID, A NEW STERIODAL METABOLITE OF A FUNGUS HAVING CHLOROSIS INDUCING ACTIVITY
AGR. BIOL. CHEM. (TOKYO), 34, 1760, 1970 AND TETRAHEDRON LTRS, P199, 1972
- 570 72 232 KAKISAWA H CHEN YP HSU HY
LIGNANS IN FLOWER BUDS OF MAGNOLIA FARGESII
PHYTOCHEM., 11, 2289, 1972
- 570 72 233 KALINOWSKY AI
MASS SPECTROMETRIC STUDY OF KAUREN DERIVATIVES. 3. (-)-KAUREN AND METHYL ESTER OF KAURENCARBOXYLIC ACID
KHIM. PRIROD. SOEDIN., P281, 1971 IN RUSSIAN
- 570 72 234 KAMANO Y PETTIT GR
SYNTHESIS OF MARINOBUFGAGIN AND MARINOBUFGOTOXIN FROM TELECINOBUFGAGIN
EXPERIENTIA, 28, 768, 1972
- 570 72 235 KAMETANI T
STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. 392. AN ALTERNATIVE TOTAL SYNTHESIS OF PETALINE. 396. AN ALTERNATIVE TOTAL SYNTHESIS OF (+OR-)-GALANTHAMINE. 408. CRYSTAL STRUCTURE OF CAPAURIMINE MONO-P-BROMOENZOATE. 412. TOTAL SYNTHESIS OF CANADINE. 421. GENERAL SYNTHESIS OF 7,8-DIOXYGENATED 1-BENZYL-1,2,3,4-TETRAHYDROISOQUINOLINES AND ELUCIDATION OF THE STRUCTURE OF CASEADINE
J. CHEM. SOC. C, P1796, 1971. J. ORG. CHEM., 36, 1295, 1971, AND J. CHEM. SOC. C, P2541, P2709, AND P3350, 1971
- 570 72 236 KAMETANI T KOIZUMI M (1) FUKUMOTO K (1) HIBINO S (2.3) TAKANO S (2)
SHIBUYA S (3)
STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. (1) 450. TOTAL SYNTHESIS OF ANHYDROCYMBINE. (2) 453. TOTAL SYNTHESIS OF (+OR-)-OCHROBIRINE. (3) 455. MASS SPECTRAL INVESTIGATION AND SYNTHESIS OF OCHOTENSINAN SKELETON
J. ORG. CHEM., 36, NO. 24, XXX, 1971. J. CHEM. SOC., PERKIN TRANS., I, P391, 1972, AND J. HETEROCY. CHEM., 9, 47, 1972

- 570 72 237 KAMETANI T KOBARI T (3) FUKUMOTO K (3) OGASAWA K (4) TAKAMASHI T (4)
1. A TOTAL SYNTHESIS OF (+R)-CAPAURIMINE. 2. A TOTAL SYNTHESIS OF (+R)-KIKEMANINE. 3. SYNTHESIS
OF HASUBANAN RING SYSTEM FROM ALKALOID RETICULINE. 4. A TOTAL SYNTHESIS OF ISOQUINOLINE ALKALOID,
(+R)-XYLOPININE BY THERMOLYSIS
J. CHEM. SOC. C, P2396 AND P3318, 1971, AND J. CHEM. SOC., CHEM. COMMUN., P288 AND P675, 1972
- 570 72 238 KAMIYA T SAITO Y HASHIMOTO M
HYPOCHOLESTEROLEMIC ALKALOIDS OF LENTINUS EDODES (BERK.) SING. 1. STRUCTURE AND SYNTHESIS OF
ERITADENINE. 2. NOVEL SYNTHESIS OF ERITADENINE
TETRAHEDRON, 28, 899, 1972 AND J. HETEROCYCL. CHEM., 9, 359, 1972
- 570 72 239 KANETA M SUGIYAMA N
STRUCTURE OF A NEW FLAVONE 'ARTHRAVIN'
J. CHEM. SOC. C, P1982, 1971
- 570 72 240 KARLSSON K WAHLBERG I ENZELL CR
VOLATILE CONSTITUENTS OF CARPHEPHORUS ODORATISSIMUS (J. F. Gmel) HEBERT
ACTA CHEM. SCAND., 26, 2837, 1972
- 570 72 241 KASAI M GOTO M
STRUCTURE AND SYNTHESIS OF A FLUORESCENT Y-LIKE BASE FROM TORULOPSIS UTILIS TRNA
TETRAHEDRON LETS., P2725, 1971
- 570 72 242 KASHMAN Y CHERKEZ S
CIRCULAR DICHROISM OF HETEROCYCLOHEXAN-4-ONIC SYSTEMS. 2. SYNTHESIS OF 8-AZABICYCLO(3,2,1)OCTANIC
SYSTEM (CYCLOHEPTADIENONE, ARYLNORTROPINDONES)
TETRAHEDRON, 28, 155, 1972
- 570 72 243 KASTING R ANDERSSON J VON SYDOW E
VOLATILE CONSTITUENTS IN LEAVES OF PARSLEY
PHYTOCHEM., 11, 2277, 1972
- 570 72 244 KATO K HIRATA Y
SYNTHESIS OF GEIJERENE, AN ELEMENE-TYPE SESQUITERPENE
TETRAHEDRON LETS., P3513, 1971
- 570 72 245 KAZLAUSKAS R
CONVERSION OF LANSSTEROL INTO A COMPOUND WITH THE CARBON SKELETON OF FUSIDIC ACID
J. CHEM. SOC., PERKIN TRANS., 1, P1243, 1972
- 570 72 246 KEITH LM ALFORD AL MCKINNEY JD
NMR STUDIES OF CHLORINATED POLYCYCLODIENE PESTICIDES
ANAL. CHIM. ACTA, 60, 1, 1972
- 570 72 247 KEMP TR STOLTZ LP KNAVEL DE
1. VOLATILE COMPONENTS OF MUSKMELON FRUIT. 2. CIS-6-NDENAL, A FLAVOR COMPONENT OF MUSKMELON FRUIT
J. AGR. FOOD CHEM., 20, 196, 1972 AND PHYTOCHEM., 11, 3321, 1972
- 570 72 248 KESSAR SV
SYNTHETIC STUDIES IN STEROIDAL SAPOGENINS AND ALKALOIDS. 10. SYNTHESIS OF TOMATID-5-ENE-3BETA-OL AND
SOLASODINE
TETRAHEDRON, 27, 2869, 1971
- 570 72 249 KEYS AJ
DAUCIC ACID AND ITS OCCURRENCE IN PLANTS
NATURE, 232, NO. 5310, 423, 1971
- 570 72 250 KHRISTULAS FS
SYNTHESIS OF UZARIGENIN
KHM. PRIROD. SOEDIN., P545, 1970 IN RUSSIAN
- 570 72 251 KIM IH KIM KH
STUDIES ON THE PHARMACOLOGICALLY ACTIVE SUBSTANCES OF PARSATILLA KOREANA. THE ISOLATION OF
HEDERAGENIN
KOR. J. PHARMACOG., 2, NO. 3, 121, 1971
- 570 72 252 KIRLAND B APPLETON RA AASEN AJ
NEUTRAL OXYGEN CONTAINING VOLATILE CONSTITUENTS OF GREEK TOBACCO
PHYTOCHEM., 11, 309, 1972
- 570 72 253 KINUMAKI A SUZUKI M
PROPOSED STRUCTURES OF ANGOLAMYCIN (SHINCOMYCIN-A) BY MASS SPECTROMETRY
J. ANTIBIOTICS, 25, NO. 8, 480, 1972
- 570 72 254 KIRK DN WILSON MA
D-HOMO-STEROIDS. 3. PREPARATION OF D-HOMOANDROSTANE DERIVATIVES: STUDY OF THE REACTIONS OF STEROIDAL
C(17)-SPIRO-CYRANS AND THEIR DERIVATIVES
J. CHEM. SOC. C, P414, 1971
- 570 72 255 KIRSON I
1. CONSTITUENTS OF WITHANIA SOMNIFERA DUN. XII. WITHANOLIDES OF AN INDIAN CHEMOTYPE. 2.
WITHANICANDRIN, A RING-C SUBSTITUTED WITHANOLIDE FROM NICANDRA PHYSALOIDES (SOLANACEAE)
J. CHEM. SOC. C, P2032, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P2109, 1972
- 570 72 256 KISHIMOTO T UYEO S
SYNTHESIS OF THE ALKALOIDS (+R)-FUMARITINE AND FUMARILINE
J. CHEM. SOC. C, P1644, 1971
- 570 72 257 KJAER D
BIKAVERIN AND NORBIKAVERIN, BENZOXANTHENTRONE PIGMENTS OF GIBBERELLA FUJIKUROI
J. CHEM. SOC. C, P2792, 1971
- 570 72 258 KLASEK A SANTAVY F DUFFIELD AM
ALKALOIDS OF EVONYMUS EUROPEA L.
HELV. CHIM. ACTA, 54, 2144, 1971
- 570 72 259 KLEIN RA
MASS SPECTROMETRY OF THE PHOSPHATIDYL AMINO ALCOHOLS: DETECTION OF MOLECULAR SPECIES AND USE OF LOW
VOLTAGE SPECTRA AND METASTABLE SCANNING IN THE ELUCIDATION OF STRUCTURE
J. LIPID RES., 13, 672, 1972

- 570 72 260 KLOTZER W
TOTAL SYNTHESIS OF THE ALKALOID RHODEADINE
HELV. CHIM. ACTA, 54, 2057, 1971
- 570 72 261 KLYUEV NA KHMELNITSKII RA NIKITINA SB GRANDBERG II
MASS SPECTRA AND STRUCTURE OF PYRROLINES
ZH. ORG. KHIM., 7, 2038, 1971 IN RUSSIAN
- 570 72 262 KNIGHTS BA MIDDLEBIE BS
STEROLS OF LACTUCA SATIVA SEED
PHYTOCHEM., 11, 1177, 1972
- 570 72 263 KNOX JR SLOBBE J
THREE NOVEL ALKALOIDS FROM ERVATAMIA ORIENTALIS
TETRAHEDRON LETRS, P2149, 1971
- 570 72 264 KOCH M PLAT M GARNIER J (2)
1. STRUCTURE DE L'USAMBARINE, NOUVEL ALCALOIDE ISOLE DU STRYCHNOS USAMBARENSIS GILG. (LOGANIACEES).
2. LOGANIACEAE OF IVORY COAST. 1X. ALKALOIDS OF STRYCHNOS CAMPTONEURA GILG
COMPT. REND., SER. C, 273, 753, 1971 AND ANN. PHARM. FR., 30, 299, 1972
- 570 72 265 KOENIG WA SMITH LC CRAIN PF
MASS SPECTROMETRY OF TRIFLUOROACETYL DERIVATIVES OF NUCLEOSIDES AND HYDROLYSATES OF DEOXYRIBONUCLEIC
ACID
BIOCHEM., 11, 1122, 1972
- 570 72 266 KOMPIS I HESSE M SCHMID H
APPROACH TO BIOGENETIC CLASSIFICATION OF INDOLE ALKALOIDS
LLOYDIA, 34, 269, 1971
- 570 72 267 KONDO S YAMAMOTO H MAEDA K
LEUCYLNEGAMYCIN, AN ANTIBIOTIC FROM NEGAMYCIN PRODUCING STREPTOMYCES
J. ANTIBIOTICS, 24A, 732, 1971
- 570 72 268 KRASSE AF
ZUR STEREOCHEMIE DER EPOXYCARDANOLIDE (ISOGENINE)
HELV. CHIM. ACTA, 55, 1352, 1972
- 570 72 269 KROEEDA M
ABSOLUTE CONFIGURATIONS AT C-20 AND C-22 IN ECDYSONES
JACS, 93, 4084, 1971
- 570 72 270 KUEHN L THOMAS D PFEIFER S
ALKALOIDS OF THE GENUS PAPAVER
JPRS-57042, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22131, 1972
- 570 72 271 KUPCHAN SM OGNYANOV I (1) MONIOT JL (1) SIGEL CW (4) GUTMAN LJ (4)
FINDLAY JW (6) HACKETT P (6)
1. TUMOR INHIBITORS. 64. ISOLATION AND STRUCTURAL ELUCIDATION OF NOVEL BUFADIENOLIDES, CYTOTOXIC
PRINCIPLES OF BERSAMA ABYSSINICA. 2. EUPACUNIN, NOVEL ANTILEUKEMIC SESQUITERPENE LACTONE FROM
EUPATORIUM CUNEIFOLIUM. 3. LIATRIN, NOVEL ANTILEUKEMIC SESQUITERPENE LACTONE FROM LIATRIS
CHAPMANII. 4. DATISCOSIDE, NOVEL ANTILEUKEMIC CUCURBITACIN GLYCOSIDE FROM DATISCA GLOMERATA. 5.
MAYTANSINE, NOVEL ANTILEUKEMIC ANSA MACROLIDE FROM MAYTENUS OVATUS. 6. CHEMISTRY OF 9BETA,19CYCLO
STEROLID DERIVATIVES
BOCH., 1, NO. 1/2, 13, 1971, JACS, 93, 4914 AND 4916, 1971, JACS, 94, 1353 AND 1354, 1972, AND J.
ORG. CHEM., 37, 2523, 1972
- 570 72 272 KURTEN SV
NEW GRAYANOTOXINS IN EXTRACTS OF LEAVES FROM RHODODENDRON PENTICUM. CONTRIBUTION TO THE
STEREOCHEMISTRY OF GRAYANOTOXINS
ANN. CHEM., 741, 142, 1970 IN GERMAN
- 570 72 273 KUSAMRAN K POLGAR N
1. DETERMINATION OF POSITION OF ETHYLENIC LINKAGES IN LIPIDS. 2. MYCOLIC ACIDS OF MYCOBACTERIUM
PHLEI
LIPIDS, 6, 961, 1971 AND J. CHEM. SOC., CHEM. COMMUN., P111, 1972
- 570 72 274 KUSANO G
CONVERSION OF SOLASODINE TO SOLAFLORIDINE AND DIHYDROSOLACONGESTIDINE ACETATE
J. ORG. CHEM., 35, 2624, 1970
- 570 72 275 KUTNEY JP
ALKALOIDS FROM CROTON SPECIES. 11. PEPTIDYL COMPOUND FROM C. HUMILIS L.
TETRAHEDRON LETRS, P3263, 1971
- 570 72 276 L'ANNUNZIATA MF
SOIL-PLANT RELATIONSHIPS AND SPECTROSCOPIC PROPERTIES OF INOSITOL STEREISOMERS: IDENTIFICATION OF
D-CHIRO- AND MUCO-INOSITOL IN A DESERT SOIL-PLANT SYSTEM
THESIS, UNIV. OF ARIZONA, TUCSON, UNIV. MICROFILMS ORDER NO. 71-4237, DISS. ABS., 31B, 8, 4440, 1971
- 570 72 277 LABERTS AM WYNBERG H STRATING J
SYNTHESIS OF 2-ADAMANTANE CARBOXYLIC ACID
SICU, 2, NO. 2, 79, 1972
- 570 72 278 LALONDE RT WOOLEVER JT AUER E
MEISENHAEIMER TRANSFORMATION OF (+)-NUPHARIDINE (NUPHAR ALKALOIDS, HEXAHYDRO-1,2-DIAZEPINES)
TETRAHEDRON LETRS, P1607, 1972
- 570 72 279 LAM JK SARGENT MV ELIX JA
SYNTHESIS OF VALSARIN AND 5,7-DICHLOROEMODIN
J. CHEM. SOC., PERKIN TRANS., I, P1466, 1972
- 570 72 280 LAMPARSKY D SCHUDEL P
P-MENTHANE-8-THIOL-3-ONE, NEW COMPONENT OF BUCHU LEAF OIL
TETRAHEDRON LETRS, P3323, 1971
- 570 72 281 LANSBURY PT
1. INTRAMOLECULAR ALKYLATION OF INTERNAL CHLORO OLEFINS. A FACILE ROUTE TO THE O-RING IN 20-KETO
STERIODS. 2. SYNTHETIC APPROACH TO HIRSUTIC ACID
JACS, 93, 1311, 1971 AND TETRAHEDRON LETRS, P1629, 1971

- 570 72 282 LAUNDON B MORRISON GA
NATURALLY OCCURRING COMPOUNDS RELATED TO PHENALENONE. 2. SYNTHESIS OF HAEMOCORIN AGLYCONE
J. CHEM. SOC. C. P1694, 1971
- 570 72 283 LEONARD NJ PLAYTIS AJ
SYNTHESIS OF 1-(4-HYDROXY-3-METHYL-CIS-BUT-2-ENYL)GUANIDINE, NATURALLY OCCURRING HYDROXYGALEGINE
J. CHEM. SOC., CHEM. COMMUN., P133, 1972
- 570 72 284 LETCHER RM NHAMO LM (1)
CHEMICAL CONSTITUENTS OF THE COMBRETACEAE. 1. SUBSTITUTED PHENANTHRENES AND 9,10-DIHYDROPHENANTHRENES FROM THE HEARTWOOD OF COMBRETUM APICULATUM. 2. SUBSTITUTED PHENANTHRENES AND 9,10-DIHYDROPHENANTHRENES FROM THE HEARTWOOD OF COMBRETUM MCLLE
J. CHEM. SOC. C. P3070, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P206, 1972
- 570 72 285 LICHTI H VONEUV J STOCKEL K
DIE VERMUTLICH STRUKTUR DER ANODENDROSIDE GLYKOSIDE UND AGLYKONE
HELV. CHIM. ACTA, 55, 1696, 1972
- 570 72 286 LIGHTNER DA BEAVERS WA (1)
1. DISSYMMETRIC HOMOCONJUGATED CHROMOPHORES. CIRCULAR DICHROISM OF CYCLOPROPYL KETONES. 2. HEXAMELICENE. ABSOLUTE CONFIGURATION
JACS, 93, 2677, 1971 AND 94, 3492, 1972
- 570 72 287 LIN Y YOSHIDA S TAKAHASHI N
SYNTHESIS OF SOME ISOCOUMARIN DERIVATIVES
AGR. BIOL. CHEM. (TOKYO), 36, 506, 1972
- 570 72 288 LINDE HFG
UBER DIE KONSTITUTION EINES NEUEN SAPOGENINS AUS HELLEBORUS ODORUS WALDTST. ET KIT. UND HELLEBORUS NIGER L.
HELV. CHIM. ACTA, 54, 1703, 1971
- 570 72 289 LINDNER HJ SCHADEN G
PYRAZOLO(4,3-E)AS-TRIAZIN, EIN NEUES HETEROCYCLISCHES SYSTEM AUS PSEUDOMONAS FLUORESCENS VAR. PSEUDODIDINUM
CHEM. BER., 105, 1949, 1972
- 570 72 290 LINK H BERNAUER K
UBER DIE SYNTHESE DER PILOCARPUS ALKALOIDE ISOPISOIN UND PILOCARPIN, SOWIE DIE ABSOLUTE KONFIGURATION DES (+)-ISOPISOINS
HELV. CHIM. ACTA, 55, 1053, 1972
- 570 72 291 LOCKSLEY HD
1. EXTRACTIVES FROM GUTTIFERAE. XIX. ISOLATION AND STRUCTURE OF TWO BENZOPHENONES, SIX XANTHONES, AND TWO BIFLAVONOIDS FROM THE HEARTWOOD OF ALLANBLACKIA FLUORIBUNDA OLIVER. 2. PUNGENT COMPOUNDS. 1. AN IMPROVED SYNTHESIS OF THE PARADOLS (ALKYL 4-HYDROXY-3-METHOXYPHENETHYL KETONES) AND AN ASSESSMENT OF THEIR PUNGENCY
J. CHEM. SOC. C. P1332, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P3001, 1972
- 570 72 292 LORENZ K MAGA J
1. STALING OF WHITE BREAD: CHANGES IN CARBONYL COMPOSITION AND GLC HEADSPACE PROFILES. 2. TRITICALE AND WHEAT FLOUR STUDIES: COMPOSITIONS OF FATTY ACIDS, CARBONYLS, AND HYDROCARBONS
J. AGR. FOOD CHEM., 20, 211 AND 769, 1972
- 570 72 293 LOUNASMAA M WIDEN C REICHSTE T (1) KARJALAI A (2)
1. MASSENSPEKTREN VON DREIKERNIGEN PFLANZLICHEN PHLOROGLUCIDEN. FILIXSAURE, TRISFLAVASPIDSAURE, TRISDESASPIDIN. 2. MASS SPECTRAL STUDIES ON SOME NATURALLY OCCURRING PHLOROGLUCINOL DERIVATIVES. III. MASS SPECTRA OF SOME MONO AND BICYCLIC PHLOROGLUCINOL DERIVATIVES FROM RHIZOMES OF DIFFERENT DRYOPTERIS SPECIES
HELV. CHIM. ACTA, 54, 2850, 1971 AND ACTA CHEM. SCAND., 26, 89, 1972
- 570 72 294 LUCHE MJ MARQUET A SNATZKE G
CONFIGURATION ABSOLUE D'INDANONES-1 ET TETRALONES-1 SUBSTITUEES EN 2
TETRAHEDRON, 28, 1677, 1972
- 570 72 295 LUKACS G
ALCALOIDES STEROIDIQUES. 117. DEUTERIATION SELECTIVE EN 17 ET EN 21 DU (5ALPHA) CONENE - 20(N). PREPARATION DE LA CONANINE-17ALPHA(2) ET DE LA CONANINE-21D(3)
TETRAHEDRON, 27, 3215, 1971
- 570 72 296 LUNDBLAD A HAMMARSTROM S LICERIO E
IMMUNOCHEMICAL STUDIES ON BLOOD GROUPS. 52. STRUCTURES AND ACTIVITIES OF OLIGOSACCHARIDES PRODUCED BY ALKALINE DEGRADATION OF BLOOD GROUP-B SUBSTANCE PREVIOUSLY SUBJECTED TO PARTIAL HYDROLYSIS
ARCH. BIOCHEM. BIOPHYS., 148, 291, 1972
- 570 72 297 MAASS WSG
LICHEN SUBSTANCES. 3. PULVINAMIDE AND POSSIBLE BIOSYNTHETIC RELATIONSHIPS WITH PULVINIC ACID
PHYTOCHEM., 9, 2477, 1970
- 570 72 298 MACDONALD BF BARTON GM
LIGANS OF WESTERN RED CEDAR (THUJA PLICATA DONN). 10. GAMMA-THUJAPLICATENE
CAN. J. CHEM., 48, 3144, 1970
- 570 72 299 MACKELLAR FA
TIRANDAMYCIN. 1. STRUCTURE ASSIGNMENT
JACS, 93, 4943, 1971
- 570 72 300 MACLEOD JK WORTH BR (1) NAKAYAMA M (2)
1. SYNTHESIS OF BENZOFURANOID SYSTEMS. II. TOTAL SYNTHESIS OF CYPERAQUINONE AND CONICAQUINONE. 2. MASS SPECTRA OF SOME NATURALLY OCCURRING 3,4-DIALKOXY FUROCUMARINS AND THEIR NOR-DERIVATIVES
TETRAHEDRON LETRS, P241, 1972 AND ORG. MASS SPECTRY, 6, 293, 1972
- 570 72 301 MAEDA K KAWAMURA K KONDO S
STRUCTURE AND ACTIVITY OF LEUPEPTINS AND RELATED ANALOGS
J. ANTIBIOTICS, 24A, 402, 1971
- 570 72 302 MAGERLEIN BJ
LINCOMYCIN. 12. PREPARATION OF METHYL N-METHYL-ALPHA-THIOLINCOMOSAMINIDE
J. ORG. CHEM., 36, 596, 1971

- 570 72 303 MALIKOV VM YUNUSOV SY
STRUCTURE OF ERVINIDINE
KHIM. PRIROD. SOEDIN., P640, 1971 IN RUSSIAN
- 570 72 304 MALLABAEV A
STRUCTURE OF THE IDOCUMARIN OF ARTEMIDINE
KHIM. PRIROD. SOEDIN., P531, 1970 IN RUSSIAN
- 570 72 305 MANUKIAN BK MANGINI A
1. ZUR KONSTITUTION DES PIGMENT RED-177. 2. STRUKTURAUFKLARUNG ZWEIER PIGMENT FARBSTOFFE DER
PERYLEN-REIHE
HELV. CHIM. ACTA. 54. 2093 AND 2924, 1971
- 570 72 306 MARAVJEV DA PLEHANOV TI YUNUSOV MS
NEW DITERPENIC ALKALOID OF ACONITUM NASUTUM
KHIM. PRIROD. SOEDIN., P128, 1972 IN RUSSIAN
- 570 72 307 MARTIN JC ARHART RJ
SULFURANES. 2. ISOLATION AND CHARACTERIZATION OF A CRYSTALLINE DIALKOXYDIARYLSULFURANE
JACS. 93. 2341, 1971
- 570 72 308 MARTINPANIZO F
CHEMICAL STUDY OF THE PENINSULAR SENECEO (COMPOSITAE). 1. NEUTRAL COMPONENTS OF SENECEO TOURNEFORTII
AN. QUIM., 66. 571, 1970 IN SPANISH
- 570 72 309 MATSUMOTO T TANAKA I (1) FUKUI K (1) SHIRAHAM H (2) ICHIHARA A (2)
HIDAKA K (3) NAKAYAMA T (3)
1. STEREOCHEMISTRY OF NUCLEOPHILIC ADDITION. II. REFORMATSKY REACTION OF METHYL (+)-
ALPHA-BROMOPROPIONATE, 2-PHENYLPROPANAL, AND 3-PHENYL-2-BUTANONE. 2. SYNTHESIS AND CONFORMATION OF
CYCLOPROPANE INTERMEDIATES IN TOTAL SYNTHESIS OF ILLUDIN M AND S. 3. SYNTHESIS AND CONFIGURATION
OF FUKIIC ACID DERIVATIVES
BULL. CHEM. SOC. JAPAN, 44. 3378, 1971, AND 45. 1136 AND 1501, 1972
- 570 72 310 MATSUDA A
1. STRUCTURE OF BAZZANENE. 2. STRUCTURE AND STEREOCHEMISTRY OF CHILOSCYPHONE
TETRAHEDRON, 27. 2757, 1971 AND 28. 1203, 1972
- 570 72 311 MATSUURA S YAMAMOTO M KANEKO Y
STRUCTURE OF PTERIDINE GLYCOSIDE FROM ASPERGILLUS ORYZAE
BULL. CHEM. SOC. JAPAN, 45. 492, 1972
- 570 72 312 MCDONNELL PB
ISOLATION AND CHARACTERIZATION OF POTENTIAL ANTI-TUMOR AGENTS FROM BURSERA SCHLECHTENDALII FAMILY
BURSERACEAE
THESIS. UNIV. OF ARIZONA, TUCSON. UNIV. MICROFILMS ORDER NO. 70-18,178. DISS. ABS., 31B. 4. 1853,
1970
- 570 72 313 MCGARRFEN WJ KUNSTMANN MP (1) ELLESTAD GA (2) MORTON GO (2)
1. REVISION OF AZOXY ASSIGNMENTS IN LL-BH872ALPHA AND ELAIMOYCIN BASED ON CIRCULAR DICHROISM STUDIES
ON SYNTHETIC AZOXY COMPOUNDS. 2. LL-D253ALPHA, BETA, AND GAMMA, NOVEL CHROMANONES FROM FUNGUS
PHOMA PIGMENTIVORA
J. ORG. CHEM., 37. 902 AND 1636, 1972
- 570 72 314 MCKILLOP TFW
SYNTHESIS OF NEDOCLOVENE
J. CHEM. SOC. C. P3375, 1971
- 570 72 315 MCMURRY TBH RANE OF
CHEMISTRY OF SANTONENE. 6. CHEMISTRY OF PYROSANTONIN
J. CHEM. SOC. C. P1389, 1971
- 570 72 316 MEHRI MH KOCH M PLAT M
PLANTES DE NOUVELLE CALEDONIE. 13. STRUCTURES DE LA MELOBALINE ET DE LA BALOXINE. ALCALOIDES OU
MELODINUS BALANSAE BAILL
BULL. SOC. CHIM. FRANCE, P3291, 1972
- 570 72 317 MEILITSKY LV OZHEVSKY UL VULFSON NS
CHEMICAL NATURE OF LUBIMIN, A NEW PHYTOALEXIN OF POTATO
DOKL. AKADE. NAUK SSSR, 200. 1470, 1971 IN RUSSIAN
- 570 72 318 MEYER AY YINMON W
PLANAR AND NONPLANAR UNSATURATION. 2. TWISTING-DISTORTIONS IN FULVALENIC STRUCTURES
TETRAHEDRON, 28. 3915, 1972
- 570 72 319 MEYER WL
1. STRUCTURE OF TENTOXIN. 2. CONFORMATIONS OF 1,1-DIMETHYL-TRANS-DECALIN-10-CARBOXYLIC ACIDS
TETRAHEDRON LETS. P2357, 1971 AND JACS. 94. 466, 1972
- 570 72 320 MEYSTRE C
10(5TD4)-ABEO-CORTICOSTEROIDE
HELV. CHIM. ACTA. 55. 330, 1972 IN GERMAN
- 570 72 321 MIDDLEBURY BS KNIGHTS BA
STEROLS OF LINUM USITATISSIMUM SEED
PHYTOCHEM., 11. 1187, 1972
- 570 72 322 MIHAJLOVIC ML
SYNTHESE, STRUKTUR UND REAKTIONEN VON SECOSTEROIDEN MIT EINEM MITTLEREN RING-V. PHOTOCHEMISCHE
CYCLISATION VON CIS UND TRANS-3BETA-ACETOXY-5-OXO-DELTA(10)-5,10-SECOCHOLESTEN
HELV. CHIM. ACTA. 54. 2281, 1971
- 570 72 323 MIKOLAJCZAK KL POWELL RG SMITH CR
DEOXYHARRINGTONINE, A NEW ANTITUMOR ALKALOID FROM CEPHALOTAXUS. STRUCTURE AND SYNTHETIC STUDIES
TETRAHEDRON, 28. 1995, 1972
- 570 72 324 MINNIKIN DE
RING LOCATION IN CYCLOPROPANE FATTY ACID ESTERS BY BORON TRIFLUORIDE CATALYZED METHOXYLATION
FOLLOWED BY MASS SPECTROSCOPY
LIPIDS, 7. 398, 1972

- 570 72 325 MIRRINGTON RN SCHMALZ
STUDIES WITH BICYCLO(2.2.2)OCTENES. 5. TOTAL SYNTHESIS OF (+OR-)-PATCHOULI ALCOHOL
J. ORG. CHEM., 37, 2871, 1972
- 570 72 326 MISRA G NIGAM SK MITRA CR
STERIODS AND TRITERPENOIDS OF DIOSPYROS MONTANA
PHYTOCHEM., 11, 1508, 1972
- 570 72 327 MITSCHER LA FOLTZ RL (1) LEVENBER MI (1) WU W (2) BEAL JL (2)
1. MASS SPECTRA OF MACROLIDE ANTIBIOTICS. UTILITY OF N-OXIDE DERIVATIVES IN ENHANCING FRAGMENTATION
OF THE NON-SUGAR PORTION OF BASIC ANTIBIOTICS. 2. ANTIBIOTICS FROM HIGHER PLANTS. THALICTRUM
RUGOSUM. THALRUGOSAMINE, A NEW BISBENZYLISOQUINOLINE ALKALOID ACTIVE VS MYCOBACTERIUM SMEGMATIS
ORG. MASS SPECTRY, 5, 1229, 1971 AND EXPERIENTIA, 28, 500, 1972
- 570 72 328 MITSCHER LA LEU R (1) BATAHALA MS (1) WU W (2) DOSKOTCH RW (2)
SHOWALTER HD (4) SHIPCHAN MT (4)
ANTIMICROBIAL AGENTS FROM HIGHER PLANTS. 1. INTRODUCTION, RATIONALE, AND METHODOLOGY. 2. ALKALOIDS
FROM THALICTRUM RUGOSUM. 4. ZANTHOXYLUM ELEPHANTIASIS. ISOLATION AND IDENTIFICATION OF
CANTHIN-6-ONE
LLOYDIA, 35, 157, 167, AND 177, 1972
- 570 72 329 MONDON A
STRUKTUR DES UMGELAGERTEN HYDROXYLACTAMS C18H23NO4 VOM SCHMP
CHEM. BER., 105, 2025, 1972
- 570 72 330 MONTAUDO G
CONJUGATIVE AND STERIC FACTORS AFFECTING THE CONFORMATIONAL PREFERENCE OF SOME AROMATIC SULFIDES
J. ORG. CHEM., 37, 504, 1972
- 570 72 331 MOOKHERJEE BD PATEL RR LEDIG WD
SYNTHESIS OF DL-MUSCONE FROM EXALTONE (CYCLOPENTADECANONE)
J. ORG. CHEM., 36, 4124, 1971
- 570 72 332 MOPPETT CE
STRUCTURE OF THERMORUBIN-A, THE MAJOR ORANGE-RED ANTIBIOTIC OF THERMOACTINOMYCES ANTIBIOTICUS
JACS, 94, 3269, 1972
- 570 72 333 MORIARTY RM GOPAL H FLIPPEN JL
MOLECULAR STRUCTURE OF 7-SYN-6-ENDO-DIHYDROXYBICYCLO(2.2.1)HEPTANE-2-ENDO-CARBOXYLIC
ACID-ALPHA-LACTONE
TETRAHEDRON LTRS, P351, 1972
- 570 72 334 MOSHONAS NG LUND ED (1) BERRY RE (1) SHAW PE (2) VELOHUIS MK (2)
1. DISTRIBUTION OF AQUEOUS AROMA COMPONENTS IN ORANGE. 2. ANALYSIS OF VOLATILE CONSTITUENTS FROM
MEYER LEMON OIL
J. AGR. FOOD CHEM., 20, NO. 3, XXX, AND NO. 4, 751, 1972
- 570 72 335 MULDERE E MAARSE H WEURMAN C
ODOUR OF WHITE BREAD. 1. ANALYSIS OF VOLATILE CONSTITUENTS IN VAPOUR AND AQUEOUS EXTRACTS
Z. LEBENS.-UNTERSUCH. FORSCH., 150, NO. 2, 68, 1972
- 570 72 336 MUNTZ RL PIRKLE WH PAUL IC
DETERMINATION OF ABSOLUTE CONFIGURATION OF (-)-N-ETHYL-N-METHYLANILINE OXIDE BY X-RAY ANALYSIS.
MOLECULAR GEOMETRY
J. CHEM. SOC., PERKIN TRANS., II, P483, 1972
- 570 72 337 MUQUET M
REARRANGEMENT DE LA (-)-TABERSONINE, EN MILIEU ACETIQUE
TETRAHEDRON, 28, 1363, 1972
- 570 72 338 MURRAY KE SHIPTON J WHITFIELD FB
CHEMISTRY OF FOOD FLAVOUR. 1. VOLATILE CONSTITUENTS OF PASSIONFRUIT, PASSIFLORA EDULIS
AUSTRALIAN J. CHEM., 25, 1921, 1972
- 570 72 339 NAEGELI P KAISER R
NEW SYNTHETIC APPROACH TO ACORANE-. DAUCANE AND CEDRANE SKELETON
TETRAHEDRON LTRS, P2013, 1972
- 570 72 340 NAGANAWA H KONDO S MAEDA K
STRUCTURE DETERMINATIONS OF ENZYMATICALLY PHOSPHORYLATED PRODUCTS OF AMINOGLYCOSIDIC ANTIBIOTICS BY
PROTON MAGNETIC RESONANCE
J. ANTIBIOTICS, 24A, 823, 1971
- 570 72 341 NAGATA W
STEREOCONTROLLED TOTAL SYNTHESIS OF DL-GIBBERELLIN-A15
JACS, 93, 5740, 1971
- 570 72 342 NAKANISHI K ENDO M (2) SCHODLEY DA (3) KCREEDA M (3)
1. STRUCTURE OF BILOBALIDE, A RARE TERT-BUTYL CONTAINING SESQUITERPENOID RELATED TO THE
C20-GINGOLIDES. 2. STRUCTURE OF THE ANTERIDIUM INDUCING FACTOR OF THE FERN, ANEMIA PHYLLITIOIS.
3. GENERAL METHOD FOR DISTINGUISHING THREO AND ERYTHRO ISOMERS OF CERTAIN ALPHA-GLYCOLS AND
RELATED COMPOUNDS
JACS, 93, 3544 AND 5579, 1971, AND 94, 2865, 1972
- 570 72 343 NAKANO T BANERJEE AK
STUDIES ON THE POTENTIAL INTERMEDIATES FOR THE SYNTHESIS OF ROSANE TYPE DITERPENOIDS. PREPARATION OF
8BETA-A-ACETOXYMETHYL-2BETA-ACETOXY-4ABETA,8-DIMETHYL-1,2,3,4,4A,8ALPHA,5,6,7,8,10,10
AALPHA-DODECAHYDROPHEN-ANTHRENE AND 8BETA-CARBOXY-2BETA-BENZOXY-4ABETA,8-DIMETHYL-9-KETO-TRANS.
ANTI-TRANS-PERHYDROPHENANTHRENE
TETRAHEDRON, 28, 471, 1972
- 570 72 344 NAKATA H
MASS SPECTROMETRY OF TAUTOMERIC COMPOUNDS. 4. STRUCTURE OF THE MOLECULAR IONS OF 4-HYDROXYCOUMARINS
J. CHEM. SOC., PERKIN TRANS., I, P1924, 1972
- 570 72 345 NAKATANI Y
LA TRANSPOSITION SPINALE EUPHENOL-ISOEUPHENOL CATALYSEE PAR D(+)
TETRAHEDRON, 28, 4249, 1972

- 570 72 346 NARANJO J
UBER DIE INDOLALKALOIDE VON PLEIOCARPA TALBETII WERNHAN
HELV. CHIM. ACTA, 55, 752, 1972
- 570 72 347 NAYA K
CONSTITUENTS OF PETASITES JAPONICUS MAXIM. RHIZOMES
TETRAHEDRON LETS., P2961, 1971
- 570 72 348 NAYA Y KOTAKE M
CONSTITUENTS OF HOPS (HUMULUS LUPULUS L.). 7. RAPID ANALYSIS OF VOLATILE COMPONENTS
BULL. CHEM. SOC. JAPAN, 45, 2887, 1972
- 570 72 349 NEWMAN MS CHEN CH
RESOLUTION AND ABSOLUTE CONFIGURATION OF 7-METHYLHEXAHELICENE
J. ORG. CHEM., 37, 1312, 1972
- 570 72 350 NEY KH WIROTAMA IP
1. UNSUBSTITUTED ALIPHATIC MONOCARBOXYLIC ACIDS, ALPHA-KETO ACIDS, AND AMINES IN CHEDDAR CHEESE. 2.
OCCURRENCE OF ALIPHATIC MONOAMINES IN GERMAN AND FRENCH CAMEMBERT. 3. INVESTIGATION OF FLAVOUR OF
'EDELPIKZASER', A GERMAN BLUE MOULD CHEESE. 4. UNSUBSTITUTED ALIPHATIC MONOCARBOXYLIC ACIDS AND
VOLATILE ALIPHATIC MONOAMINES IN EMMENTAL CHEESE
2. LEBENS-UNTERSUCH. FORSCH., 146, 337 AND 343, 1971. AND 149, 275 AND 347, 1972
- 570 72 351 NICKOLSON RC GUT M
STEREOSPECIFIC SYNTHESIS OF (20S,22R)-17ALPHA,20,22-TRIHYDROXYCHOLESTEROL AND (20S,22S)-17ALPHA
20,22-TRIHYDROXYCHOLESTEROL
J. ORG. CHEM., 37, 2119, 1972
- 570 72 352 NIKONOVA LP NIKONOV GK
IGALAN, A NEW SESQUITERPENIC LACTONE FROM THE ROOTS OF INULA GRANDIS
KHIM. PRIROD. SOEDIN., P508, 1970 IN RUSSIAN
- 570 72 353 NIMZ H DAS K
DURCH ABBAU MIT THIOESSIGSAURE ERHALTENE DIMERE ABBAU PHENOLE DES BUCHENLIGNINS
CHEM. BER., 104, 2359, 1971
- 570 72 354 NO AUTHOR
THE CHEMISTRY OF NATURAL PRODUCTS. VOLUME 6
BOOK, IUPAC - THE BUTTERWORTH GROUP, 1970, 178P
- 570 72 355 NODDIE J
1. STEREOCHEMIE EINES NEUEN ALKALOIDS AUS HAEMANTHUS KATHERINAE. 2. ZUR STRUKTUR EINES NEUEN
ALKALOIDS AUS CHLIDANTHUS FRAGANS
TETRAHEDRON LETS., P2743 AND P3249, 1971
- 570 72 356 NOLAN M
A NEW ACID, NICOTIANAMINE, FROM TOBACCO LEAVES
TETRAHEDRON LETS., P2017, 1971
- 570 72 357 NOZOE S SUZUKI KT (2)
1. STRUCTURE OF NEW SESQUITERPENES FROM BASIDIOMYCETES. 2. ISOLATION AND STRUCTURE OF
SICCANOCHROMENES
TETRAHEDRON LETS., P3125, 1971 AND TETRAHEDRON, 27, 6063, 1971
- 570 72 358 NUIN P HELLER D WAGNER G
SPEKTRALE EIGENSCHAFTEN EINIGER GLUCOPYRANOSIDE UND 2-DESOXYRIBOFURANOSIDE TAUTOMERIEFAHIGER
PI-MANDEL-ETEROAROMATEN
J. PRAKT. CHEM., 313, 614, 1971
- 570 72 359 O'RELL DD
CALABASH CURARE ALKALOIDS. A SYNTHETIC STUDY IN THE C-FLUOROCURINE-MAVACURINE SERIES
JACS, 94, 3205, 1972
- 570 72 360 ODATA S
STUDIES ON THE COMPONENTS OF THE ROOTS OF ARCTIUM LAPPA L.
J. AGR. CHEM. SOC. JAPAN, 44, 437, 1970 IN JAPANESE
- 570 72 361 OGAWARA H MAEDA K UMEZAWA H
BETA-LACTAMASE OF ESCHERICHIA COLI
BIOCHIM. BIOPHYS. ACTA, 289, 203, 1972
- 570 72 362 OHLOFF G
1. MOLECULAR BASIS OF ODOR. 2. CLASSIFICATION AND GENESIS OF FOOD FLAVOURS
NATURWISSENSCHAFTEN, 59, 84, 1972 AND FLAVOUR IND., 3, 501, 1972
- 570 72 363 OKABE H KAWASAKI T
STUDIES ON RESIN GLYCOSIDES. 3. COMPLETE STRUCTURES OF PHARBITIC ACIDS C AND D
CHEM. PHARM. BULL. (TOKYO), 20, 514, 1972
- 570 72 364 PAGANI F
NOTIZ UBER DIE STRUKTUR DES POLYINGLUCOSIDS AUS BIDENS FRONDOSA L.
CHEM. BER., 105, 3126, 1972
- 570 72 365 PALTER R LUNDIN RE MADON WF
1. STRUCTURE OF A SAFFLOWER STERIOD CELLOBIOSIDE. 2. CATHARTIC LIGNAN GLYCOSIDE ISOLATED FROM
CARTHAMUS TINCTORUS
PHYTOCHEM., 11, 2327 AND 2871, 1972
- 570 72 366 PANDE BS
STUDIES IN SESQUITERPENES. 47. CIS AND TRANS-ATLANTONES FROM CEDRUS DEODARA LOU
TETRAHEDRON, 27, 841, 1971
- 570 72 367 PANDEY RC NARASIMH N RINEHART KL
POLYENE ANTIBIOTICS. 4. STRUCTURE OF CHAININ
JACS, 94, 4306, 1972
- 570 72 368 PANDEY VB DAS GUPTA D
NEW ESTER GLUCOSIDE FROM THE BARK OF TECOMELLA UNDULATA
EXPERIENTIA, 26, NO. 11, 1187, 1970

- 570 72 369 PAPE ALL
CHEMISTRY OF ANTIBIOTIC X-5108
THESIS. GEORGIA INST. OF TECHNOLOGY. ATLANTIC. UNIV. MICROFILMS ORDER NO. 71-28,098. DISS. ABS.,
32B. 5. 2610. 1971
- 570 72 370 PARANJAPÉ BV PYLE JL
THE DIECKMANN CYCLIZATION AS A ROUTE TO A-NOR STEROIDS. EVIDENCE CONCERNING STEREOCHEMISTRY
J. ORG. CHEM., 36. 1009. 1971
- 570 72 371 PARIS R TESSIER A
CHIMIE VÉGÉTALE. PRESENCE DE SUBSTANCES DU GROUPE DES CUCURBITACINES CHEZ DIVERSES EUPHORBIAECES
TOXIQUES AFRICAINES. NOTAMMENT CHEZ MAPROUNEA-MEMBRANACEA PAX ET K. HOFM.
COMPT. REND., SER. D. 274. 321. 1972
- 570 72 372 PATIL VD
CHEMISTRY OF AYURVEDIC CRUDE DRUGS. 1. GUGGULU (RESIN FROM COMMIPHORA MUKUL). 1. STEROIDAL
CONSTITUENTS
TETRAHEDRON, 28. 2341. 1972
- 570 72 373 PATTEE HE SINGLETON-JA
COMPARISON OF GEOGRAPHICAL AND VARIETAL EFFECTS ON PEANUT VOLATILE PROFILE BY PEAK-RATIO ANALYSIS
J. AGR. FOOD CHEM., 20. 1119. 1972
- 570 72 374 PAULSEN H FRIEDMAN M
KONFORMATIONSANALYSE. 1. ABHANGIGKEIT DER SYN-1,3-DIAXIALEN WECHSELWIRKUNG VON DER ART DES
SUBSTITUENTEN UND VOM LÖSUNGSMITTEL. UNTERSUCHUNGEN DER KONFORMATIONS-GLEICHGEWICHTE VON
D-IDOPYRANOSE DERIVATEN. 2. ERMITTLUNG DER KONFORMATION VON METHYL-4,6-
O-BENZYLIDEN-D-IDOPYRANOSIDEN DURCH KOMBINIERTE AUSWERTUNG VON NMR-DATEN UND BERECHNUNG DER
OPTISCHEN DREHUNG
CHEM. BER., 105. 705 AND 718. 1972
- 570 72 375 PAULSEN H FRIEDMAN M (1)
1. MONOSACCHARIDE MIT STICKSTOFFHALTIGEM RING. XXIX. SYNTHESE UND KONFORMATIONSANALYSE VON
5-BENZYLOXYCARBONYLAMINO-5,6-DIDESOXY-BETA-L-IDOPYRANOSE. 2. SYNTHESE VON L-STREPTOSE UND
D-HAMAMELOSE
CHEM. BER., 105. 731 AND 1978. 1972
- 570 72 376 PEGEL KH
PIMMARANE DITERPENES FROM CLEISTANTHUS SCHLECHTERI
J. CHEM. SOC. C. P2536. 1970
- 570 72 377 PELLETIER SW
STRUCTURE OF STAPHISINE. A NOVEL DITERPENE ALKALOID DIMER
JACS. 94. 1754. 1972
- 570 72 378 PERRIN DR WHITTLE CP BATTERHA TJ
STRUCTURE OF PHASEOLLIDIN
TETRAHEDRON LETRS. P1673. 1972
- 570 72 379 PETTIT GR KAMANO Y (1) BRUSCHWE F (1) DIAS JR (2)
1. BUFADIENOLIDES. XIV. SYNTHESIS OF BUFOTALIEN. 15-ALPHA-HYDROXYBUFALIN, AND RESIBUFOGENIN. 2.
STERIODS AND RELATED NATURAL PRODUCTS. LXVI. STRUCTURAL MODIFICATION OF THE TRITERPENE-A RING. 3.
THE CAMPTOTHECIN DELTA-LACTONE
J. ORG. CHEM., 36. NO. 24. XXX. 1971. AND 37. 973 AND 2789. 1972
- 570 72 380 PEUBE LO KOCH M PLAT M

ALCALOIDES DES ECORCES D'OCCHROSIA OPPOSITIFOLIA
PHYTOCHEM., 11. 2109. 1972
- 570 72 381 PEYROUX J MEHRI HM PLAT M
PLANTAGO ARENARIA WALDST. ET KIT. ISOLATION OF ARCOTIN AND A NEW ALKALOID ARENANINE
ANN. PHARM. FR., 30. 51. 1972
- 570 72 382 PIERS E
STERESELECTIVE TOTAL SYNTHESIS OF (+OR-)-SEYCHELLENE
JACS. 93. 5113. 1971
- 570 72 383 PINHEY JT RIZZARDO E
STRUCTURE OF 'CHOLESTANE-3,4,6-TRIONE'
J. CHEM. SOC., PERKIN TRANS., 1. P1358. 1972
- 570 72 384 POISEL H SCHMIDT U
SYNTHESEVERSUCHE IN DER REIHE DER 3,6-EPIIDITHIO-2,5-DIOXOPIPERAZIN ANTIBIOTIK GLIOTOXIN,
SPORIDESMIN, ARANOTIN, UND CHAETOICIN. 2.
CHEM. BER., 104. 1714. 1971
- 570 72 385 POMERANTZ IH
ISOLATION AND IDENTIFICATION OF A NEW HETERO RING SYSTEM. THE FUSION OF CAPTAN (N-(TRICHLOROMETHYLTHIO)-4-CYCLOHEXENE-1,2-DICARBOXIMIDE) WITH RESORCINOL TO GIVE (1,2)
BENZOXATHIOL(2,3-B)(1,2)BENZOXATHIOLE-6-S(1V)-3,9-DIOL
TETRAHEDRON, 28. 2183. 1972
- 570 72 386 POUPAT C HUSSON H DAS BC
ETUDES RECENTES DES ALCALOIDES DU LUNARIA BIENNIS MOENCH, CRUCIFERES. 1. LUNARINE ET DERIVES:
STRUCTURE DE QUATRE ALCALOIDES SECONDAIRES. 2. STRUCTURE DE LA LUNARIDINE
TETRAHEDRON, 28. 3087 AND 3103. 1972
- 570 72 387 PRICE SJ PINDER AR
CHEMISTRY OF OTTONIA VAHLII KTH. 2. CONSTITUTION OF THE NONVOLATILE COMPONENT
J. ORG. CHEM., 35. 2568. 1970
- 570 72 388 PROUTY WF THOMPSON RM SCHNOES HK
OLIGOMYCIN: DEGRADATION PRODUCTS AND PART STRUCTURE OF OLIGOMYCIN-B(1)
BIOCHEM. BIOPHYS. RES. COMMUN., 44. NO. 3. XXX. 1971
- 570 72 389 PURUSHOTHAMAN KK
STRUCTURE AND STEREOCHEMISTRY OF GANGETIN. A NEW PTEROCARPAN FROM DESMODIUM GANGETICUM (LEGUMINOSAE)
J. CHEM. SOC. C. P2420. 1971

- 570 72 390 GUILLINAN AJ SCHEINMANN F
EXTRACTIVES FROM GUTTIFERAE. 25. SYNTHESIS OF THE NATURAL 1,5-DIOXYGENATED XANTHONES,
DEHYDROCYCLOQUANANDIN, GUANANDIN, ISOGUANANDIN, AND 5-HYDROXY-1-METHOXYXANTHONE
J. CHEM. SOC., PERKIN TRANS., 1, P1382, 1972
- 570 72 391 RALDUGIN VA
PINUSOLIDE, A NEW DITERPENOID FROM PINUS SIBIRICA AND P. KORAENSIS
KHIM. PRIROD. SOEDIN., P541, 1970 IN RUSSIAN
- 570 72 392 RASHKES YV RASHKES AM GALUSTYA GG
MASS SPECTROMETRY IN STUDYING STRUCTURE OF CARBOXYALKYLATION PRODUCTS OF ALKYL BENZENES
ZH. ORG. KHIM., 8, 87, 1972 IN RUSSIAN
- 570 72 393 RAZZAKOV DM BESSONOV IA YUNUSOV SY
FOLININ, A NEW ALKALOID FROM HAPLOPHYLLUM FOLIOSUM
KHIM. PRIROD. SOEDIN., P133, 1972 IN RUSSIAN
- 570 72 394 REINACH-HIRTZBAC F OURISSON G
STRUCTURE DE L'INOTODIOL (OBLIQUOL), TRITERPENE TETRACYCLIQUE
TETRAHEDRON, 28, 2259, 1972
- 570 72 395 REINECCI GA ANDERSEN DA (1) KAVANAGH TE (1) KEENEY PG (2) WEISSBER W (2)
1. IDENTIFICATION AND QUANTIFICATION OF FREE SUGARS IN COCOA BEANS. 2. FACTORS AFFECTING
CONCENTRATION OF PYRAZINES IN COCOA BEANS
J. AGR. FOOD CHEM., 20, 199 AND 202, 1972
- 570 72 396 REISCH J SZENDREI K NOVAK I (1,2) MINKER E (3) ZS R (4)
ROZSA Z (5,6)
1. SUBERENON, A NEW COUMARIN DERIVATIVE FROM ROOT OF RUTA GRAVEOLENS L. 2. DREI NEUE
CHINOLON-(2)-ALKALOIDE AUS PTELEA TRIFOLIATA. 3. SPEKTROSKOPISCHE METHODEN ZUR STRUKTURERMITTLUNG
VON ACRIDON-ALKALOIDEN. 4. RUTACULTIN UND RUTAMARIN-ALKOHOL AUS DEN WURZELN VON RUTA GRAVEOLENS.
5. WEITERE ACRIDON-ALKALOIDE AUS RUTA GRAVEOLENS. 6. CHLORHALTIIGE ACRIDON-ALKALOIDE AUS RUTA
GRAVEOLENS
MAGY. KEM. FOLY., 78, 6, 1972, TETRAHEDRON LETS, P449, 1972, PHARMAZIE, 27, 208, 1972, AND
PHYTOCHEM., 11, 1529, 2121, AND 2359, 1972
- 570 72 397 RICE FAH
STRUCTURE OF LEUCOGENENOL
J. CHEM. SOC. C, P2599, 1971
- 570 72 398 RIDDELL FG
CONFORMATIONAL EFFECTS IN COMPOUNDS WITH SIX MEMBERED RINGS. 8. THE PREFERRED ORIENTATIONS OF ALKYL
GROUPS IN ALLENES AND IN 2-ALKYL-1,3-DIOXANES AND -DIOXOLANES
TETRAHEDRON, 27, 4163, 1971
- 570 72 399 RINEHART KL TUCKER WP (1) PANDEY RC (1) MAHESHWAR ML (2) ANTOSZ FJ (2)
1. POLYENE ANTIBIOTICS. III. STRUCTURE OF TETRIN-8. 2. CHEMISTRY OF STREPTOVARICINS. VIII. STRUCTURE
OF STREPTOVARICINS A, B, D, E, F, AND G
JACS, 93, 3747 AND 6273, 1971
- 570 72 400 RIPPERGER H
SOLANUM ALKALOIDE. 96. SYNTHESE VON SOLAFLORIDIN UND 25-ISOSOLAFLORIDIN. 97. SYNTHESE VON
SOLANOCAPSIN. 98. KONFIGURATION VON 22,26-EPIMINO-16,23-EPOXY-CHOLESTANEN
TETRAHEDRON, 28, 1619, 1629, AND 1646, 1972
- 570 72 401 RODRIGO R MANSKA RH MACLEAN DB

CANCENTRINE. 2. STRUCTURE OF CANCENTRINE
CAN. J. CHEM., 50, 853, 1972
- 570 72 402 ROSAZZA JP
SYNTHETIC APPROACHES TO SOME OF THE LYTHRACEAE ALKALOIDS
J. ORG. CHEM., 35, 2564, 1970
- 570 72 403 ROSENBERGER M
1. STEROID TOTAL SYNTHESIS. IV. (+OR-)-13BETA-ETHYL-17ALPHA-ETHYNYL-17BETA-HYDROXY-GEN-4-EN-3-ONE.
2. SYNTHESIS OF DELTA-LACTONES FROM GLUTARALDEHYDE
HELV. CHIM. ACTA, 54, 2857, 1971 AND 55, 249, 1972
- 570 72 404 RUCKER G
UBER MONOCYCLISCHE DITERPENE AUS DEM INDISCHEN GUGGUL-HARZ (COMMIPHORA MUKUL)
ARCH. PHARM., 305, 486, 1972
- 570 72 405 RUEDI P EUGSTER CH
1. STRUKTUR VON COEON-C, EINEM NEUEN BLATTFARBSTOFF AUS COLEUS AQUATICUS GURCKE. 2. COLEON-D, EIN
DITERPEN AUS COLEUS AQUATICUS GUERCKE MIT TRANS-A/B-6,7-DIOXOSTRUKTUR
HELV. CHIM. ACTA, 54, 1606, 1971 AND 55, 1736, 1972
- 570 72 406 SAKAI S
GARDNERIA ALKALOIDS. 6. STRUCTURES OF GARDNERAMINE AND ALKALOID-G (DEMETHYL GARDNERAMINE)
TETRAHEDRON LETS, P2057, 1971
- 570 72 407 SAKAKIBA J YASUE M HOTTA Y (1) IKAI K (2)
1. STUDIES ON CONSTITUENTS OF LYONIA OVALIFOLIA DRUDE VAR. ELLIPTICA HAND.-MAZZ. XVI. STRUCTURE OF
TRITERPENOID GLUCOSIDE, LYOFOLIC ACID. 2. STRUCTURE OF LYONIOL-D
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 91, 1318, 1971 AND CHEM. PHARM. BULL. (TOKYO), 20, 861, 1972
- 570 72 408 SANFR A
GLYKOSIDE VON MARSDENIA ERECTA R.Br. 2. MITTEILUNG: VERSUCHE ZUR STRUKTURBESTIMMUNG DER GENINE
HELV. CHIM. ACTA, 55, 1221, 1972
- 570 72 409 SANTAVY F
ALKALOIDE VON EULBOCODIUM VERNUM L. INHALTSTOFFE DER LILIACEAE-WURMBACEOIDEAE
HELV. CHIM. ACTA, 54, 1084, 1971
- 570 72 410 SASAKI T
RING EXPANSION REACTIONS OF HOMODAMANTANE DERIVATIVES. SYNTHESIS OF BISHOMODAMANTANE SKELETONS
JACS, 94, 1357, 1972
- 570 72 411 SASTRY SD WALLER GR SPRINGST WR (1)
1. IDENTIFICATION OF 5,9-DEHYDRONEPETALACTONE, A NEW MONOTERPENE FROM NEPETA CATARIA. 2. MASS
SPECTRAL STUDIES OF DITERPENOID ALKALOID, AJACONINE, FROM DELPHINIUM AJACIS
PHYTOCHEM., 11, 453, 1972 AND CHEM. IND. (LONDON), P381, 1972

- 570 72 412 SATO T.
MEDIUM SIZED CYCLOPHANES. 12. SYNTHESES, VARIABLE TEMPERATURE PMR SPECTRA, AND CONFORMATIONAL ASPECTS OF (M_N)METACYCLOPHANE SULFUR ANALOGS: THE EFFECT OF RING SIZE AND SUBSTITUTION ON THE CONFORMATION AND CONFORMATIONAL CHANGES
TETRAHEDRON, 27, 2737, 1971
- 570 72 413 SAVINA AA
1. FLUROSELIN, A NEW COUMARIN FROM THE ROOTS OF SESELI SESSILIFLORUM. 2. SESELIFLORIN, A NEW COUMARIN FROM THE ROOTS OF SESELI SESSILIFLORUM
KHIM. PRIROD. SOEDIN., P517 AND P522, 1970
- 570 72 414 SCARTAZZINI R BICKEL H
NEUE BETA-LACTAM ANTIBIOTIKA, UBER DIE DARSTELLUNG VON N-ACYLDERIVATEN DER 7-AMINO-CEPH-3-EM-4-CARBOXSÄURE
HELV. CHIM. ACTA, 55, 423, 1972
- 570 72 415 SCHAEFER JP REED LL
MOLECULAR GEOMETRY. 3. STRUCTURE OF RACEMIC 7-CHLORO-1,3,5-TRIMETHYL-5H-PYRIMIDO(5,4-B)(1,4) BENZOTHAZINE-2,4(1H,3H)-DIONE, A STABLE SULFONIUM YLIDE
JACS, 94, 908, 1972
- 570 72 416 SCHILL G VETTER W
GEZIELTE SYNTHESSE VON CATENA VERBINDUNGEN. 13. ZUR STRUKTUR VON BIS-DIANSA VERBINDUNGEN
CHEM. BER., 104, 3582, 1971
- 570 72 417 SCHMID E
EINE NEUE 2-ALLYLPHENOL-CUMARAN UMLAGERUNG
HELV. CHIM. ACTA, 55, 1625, 1972
- 570 72 418 SCHMID RD
STRUCTURE DETERMINATION OF FLAVONOID DISACCHARIDES BY MASS SPECTROMETRY
TETRAHEDRON, 28, 3259, 1972
- 570 72 419 SCHMITZ FJ LORANCE ED
CHEMISTRY OF COELENTERATES. 21. LACTONES FROM THE GORGONIAN PTEROGORGIA GUADALUPENSIS
J. ORG. CHEM., 36, 719, 1971
- 570 72 420 SCHMITZ RY SKODG F HECHT SM
1. COMPARISON OF ZEATIN INDOLACETATE WITH ZEATIN AND INDOLACETIC ACID IN TOBACCO BIOASSAY. 2. COMPARISON OF CYTOKININ ACTIVITIES OF NATURALLY OCCURRING RIBONUCLEOSIDES AND CORRESPONDING BASES
PLANT PHYSIOL., 50, 114, 1972 AND PHYTOCHEM., 11, 1603, 1972
- 570 72 421 SCHULTE-ELTE KH
THERMISCHE UMLAGERUNGEN VON (+)-ISOPINOCAMPHEOL UND (-)-ISOPINOCAMPHEON
HELV. CHIM. ACTA, 54, 1813, 1971
- 570 72 422 SCHWARTZ DP BREWINGT CR WEIHRAC JL (2)
METHODS FOR ISOLATION AND CHARACTERIZATION OF CONSTITUENTS OF NATURAL PRODUCTS. (1) XIII. REGENERATION OF 2,4-DINITROPHENYLHYDRAZONES ON A PERIODIC ACID COLUMN. (2) XIV. USE OF IODINE MONOCHLORIDE FOR DETECTING UNSATURATION IN MICROGRAM QUANTITIES OF COLORED DERIVATIVES
MICROCHEM. J., 17, 63 AND 193, 1972
- 570 72 423 SCOTT JE GUILFORD H
ALCIAN BLUE-8GX: INVESTIGATION OF STRUCTURAL DETAILS USING NMR AND MASS SPECTROMETRY
J. HISTOCHEM. CYTOCHEM., 20, 387, 1972
- 570 72 424 SEIFERT WK GALLEGOS EJ TEETER RM
PROOF OF STRUCTURE OF STEROID CARBOXYLIC ACIDS IN A CALIFORNIA PETROLEUM BY DEUTERIUM LABELING, SYNTHESIS, AND MASS SPECTROMETRY
JACS, 94, 5580, 1972
- 570 72 425 SEN GUPTA P DEY AK
TERPENOIDS AND RELATED COMPOUNDS. 21. STRUCTURES AND STEREOCHEMISTRY OF PUTRANJIVIC ACID AND PUTRANJIC (PUTRIC) ACID
TETRAHEDRON, 28, 1307, 1972
- 570 72 426 SEN NK
VOGELIN, EIN NEUES FLAVONOID-GLYKOSID AUS POLYGONUM RECUMBENS (FAM. POLYGONACEAE)
CHEM. BER., 104, 3425, 1971
- 570 72 427 SHAFIZADEH F BHADANE NR
BADGERIN, A NEW GERMACRANOLIDE FROM ARTEMISIA ARBUSCULA SSP. ARBUSCULA
J. ORG. CHEM., 37, 274, 1972
- 570 72 428 SHAMMA M NOVAK L (1)
1. PREPARATION OF SOME TRICYCLIC ANALOGS OF CAMPTOTHECIN. 2. PAKISTANINE AND PAKISTANAMINE, TWO NOVEL DIMERIC ISOQUINOLINE ALKALOIDS
COLLECT. CZECH. CHEM. COMMUN., 35, 3280, 1970 AND JACS, 94, 1381, 1972
- 570 72 429 SHANNON PVR LEYSHON WM
STRUCTURE AND SYNTHESIS OF A TETRAHYDRO-BETA-CARBOLINE ALKALOID FROM PHALARIS ARUNDINACEA: SOME NEW TETRAHYDRO-BETA-CARBOLINES
J. CHEM. SOC. C, P2837, 1971
- 570 72 430 SHIBAHAR S KONDO S MAEDA K
TOTAL SYNTHESIS OF NEGAMYCIN AND ANTIPODE
JACS, 94, 4353, 1972
- 570 72 431 SHIZURI Y
EVONINE, AN ALKALOID OBTAINED FROM EUONYMUS SIEBOLDIANA BLUME. 2. THE STRUCTURE OF EVONINE
TETRAHEDRON LETS, P2659, 197X (X = 0,1,2)
- 570 72 432 SHOPPEE CW HUGHES NW
STRUCTURES OF SOME HEXA-1,5-DIENE-1,1,3,3,4,4,6,6-OCTACARBOXYLIC ESTERS
J. CHEM. SOC. C, P3673, 1971
- 570 72 433 SHTACHER G KASHMAN Y
CHEMICAL INVESTIGATION OF VOLATILE CONSTITUENTS OF INULA VISCOSA AIT
TETRAHEDRON, 27, 1343, 1971

- 570 72 434 SIDHU GS SANKARAM AVB
A NEW BIPLUMBAGIN AND 3-CHLOROPLUMBAGIN FROM PLUMBAGO ZEYLANICA
TETRAHEDRON LETS. P2385, 1971
- 570 72 435 SIMS FE
OVIPOSITION INHIBITION IN SINELLA CURVISETA BROOK (COLLEMBOLA ENTOMOBRYIDAE)
THESIS. OHIO STATE UNIV., COLUMBUS. UNIV. MICROFILMS ORDER NO. 70-19,361. DISS. ABS., 31B. 4. 1898.
1970
- 570 72 436 SIMS JJ FENICAL W
MARINE NATURAL PRODUCTS. 1. PACIFENOL, A RARE SESQUITERPENE CONTAINING BROMINE AND CHLORINE FROM THE
RED ALGA, LAURENCIA PACIFICA
JACS. 93. 3774, 1971
- 570 72 437 SLAVIK J SLAVIKOV L
ALKALOIDS OF PAPAVERACEAE. 45. PHENOLIC NON-QUATERNARY ALKALOIDS FROM ROOTS OF THREE ESCHSCHOLTZIA
SPECIES. 46. ALKALOIDS FROM GLAUCIUM FIMBRILIGERUM BOISS
COLLECT. CZECH. CHEM. COMMUN., 36. 2067 AND 2385, 1971
- 570 72 438 SOMENINDO BD BEAL JL DOSKOTCH RW
ISOLATION OF STEPHARINE AND COCLAURINE FROM SARCOPELALUM HARVEYANUM
LLOYDIA. 35. 90. 1972
- 570 72 439 SPENCER TA
INITIAL SYNTHESIS OF (+OR-)-METHYL VINHATICOATE AND (+)-METHYL VINACAPENATE
JACS. 93. 4856, 1971
- 570 72 440 STEGLICH W REINIGER W
ANTHRACHINON PIGMENTS AUS DERMOCYBE CINNABARINA (FR.) WUNSCH
CHEM. BER., 105. 2922, 1972
- 570 72 441 STERNITZ FR LOWRY WT NORRIS FA
ALIPHATIC NITRO COMPOUNDS FROM ASTRAGALUS SPECIES
PHYTOCHEM., 11. 1117, 1972
- 570 72 442 STEVENS RV LAI JT
GENERAL METHODS OF ALKALOID SYNTHESIS. 10. TOTAL SYNTHESIS OF THE SKELETON ALKALOIDS (+
OR-)-JOUDECTIAMINE. (+OR-)-O-METHYL-JOUDECTIAMINE. AND (+OR-)-DIHYDROJOUDECTIAMINE
J. ORG. CHEM., 37. 2138, 1972
- 570 72 443 STORK G SCHULTZ KG (1)
1. TOTAL SYNTHESIS OF DL-CAMPTOTHECIN. 2. TOTAL SYNTHESIS OF LUPEOL
JACS. 93. 4074 AND 4945, 1971
- 570 72 444 STOYANOV IV HAJIEVA P POPOV S
COMPOSITION AND STRUCTURE OF POLYCYCLIC COMPOUNDS IN FLOWERS OF BULGARIAN OIL-BEARING ROSE
DOKL. BULG. AKADEM. NAUK, 24. 745, 1971
- 570 72 445 STRAIN HH
STRUCTURE OF PERIDININ, THE CHARACTERISTIC DINOFLAGELLATE CAROTENOID
JACS. 93. 1823, 1971
- 570 72 446 STRIGINA LI
TRITERPENE GLYCOSIDES OF CAULOPHYLLUM ROBUSTUM
KHIM. PRIROD. SOEDIN., P552, 1970 IN RUSSIAN
- 570 72 447 SUBBA RAO G BRAMLEY R
HYPOPHYLLANTHIN
TETRAHEDRON LETS. P3175, 1971
- 570 72 448 SUGIURA K
ISOLATION OF THREE NEW ALKALOIDS FROM EUDONYMUS SIEBOLOIANA BLUME AND THEIR STRUCTURES
TETRAHEDRON LETS. P2733, 1971
- 570 72 449 SUGIYAMA K
CRYSTAL STRUCTURE OF PARA-BROMOBENZYLIDENEACETONE
BULL. CHEM. SOC. JAPAN. 43. 3624, 1970
- 570 72 450 GUNDT E WILLHART M R CHAPPAZ R
DAS ORGANOLEPTISCHE PRINZIP VON CASSIS FLAVOR IM BUCKELBLATTEROL
HELV. CHIM. ACTA. 54. 1801, 1971
- 570 72 451 SUZUKI M
APPLICATION OF MASS SPECTROMETRY ON THE STRUCTURE ELUCIDATION OF MACROLIDE ANTIBIOTICS
J. SYN. ORG. CHEM. JAPAN. 30. 784, 1972
- 570 72 452 TAKAHASHI N SHIMOMURA T CHIBA S
STUDIES ON ALPHA-GLUCOSIDASE IN RICE. 1. ISOLATION AND SOME PROPERTIES OF ALPHA-GLUCOSIDASE-II.
AGR. BIOL. CHEM. (TOKYO). 35. 2015, 1971
- 570 72 453 TAKAHASHI S
REVISED STRUCTURE AND STEREOCHEMISTRY OF CORIOLINS
TETRAHEDRON LETS. P1955, 1971
- 570 72 454 TAKEDA K
COMPONENTS OF THE LAURACEAE FAMILY. 1. NEW LACTONIC COMPOUNDS FROM LITSEA JAPONICA
TETRAHEDRON LETS. P3757, 1972
- 570 72 455 TALAPATRA SK
FURTHER STUDIES ON LEMOBILINE: PARTIAL SYNTHESIS OF (-)-LEMOBILINE AND ITS CONVERSION TO (-)-
RAVENOLINE
TETRAHEDRON LETS. P2683, 1971
- 570 72 456 TANIGUCHI E OSHIMA Y
NEW Gmelinol TYPE LIGNAN, LEPTOSTACHYDOL ACETATE
TETRAHEDRON LETS. P653, 1972
- 570 72 457 TANINO H KUNOU I OKADA K
STRUCTURES OF THREE ISOMERIC DIMERS OF 2,4,5-TRIPHENYLIMIDAZOLYL
BULL. CHEM. SOC. JAPAN. 45. 1474, 1972

- 570 72 458 TAYLOR DAH
CHEMICAL SHIFTS OF THE TERTIARY METHYL GROUPS IN THE NUCLEAR MAGNETIC RESONANCE SPECTRA OF SOME LIMONIDS. 2.
J. CHEM. SOC. C. P2396, 1970
- 570 72 459 TAYLOR PA SCHNOES HK DURBIN RD
CHARACTERIZATION OF CHLOROSIS INDUCING TOXINS FROM A PLANT PATHOGENIC PSEUDOMONAS SP. 'PHLEUM PRATENSE'
BIOCHIM. BIOPHYS. ACTA. 286. 107, 1972
- 570 72 460 TELNOV VA YUNUSOV MS (2) RASHKES YV (2)
1. STRUCTURE OF LAPPACONITINE. 2. STRUCTURE OF LAPPACONIDINE
KHIM. PRIROD. SOEDIN., P583, 1970 AND P622, 1971 IN RUSSIAN
- 570 72 461 THANG OC CAN CX BUU-HOI NP
CARCINOGENIC NITROGEN COMPOUNDS. 81. STERIC CONTROL IN HETEROCYCLIC CYCLISATIONS WITH 6-SUBSTITUTED CHRYSENES
J. CHEM. SOC., PERKIN TRANS., I, P1932, 1972
- 570 72 462 THOMAS AF PAWLAK W (1) PITTON G (2)
1. SYNTHESIS AND REACTIONS OF YOMOGI ALCOHOL. CONVERSION OF THE ARTEMISYL SKELETON TO THE SANTOLINYL SKELETON BY A 1,2-SHIFT OF A VINYL GROUP. SYNTHESIS OF SANTOLINATRIENE. 2. ISOLATION, STRUCTURE, AND SYNTHESIS OF DAVANA ETHER, AN ODORIFEROUS COMPOUND OF OIL OF ARTEMISIA PALLENS WALL. 3. NATURAL OCCURRENCE OF THE CAMPHOLENYL SKELETON, ANOTHER 'NON-ISOPRENOID' MONOTERPENE SYSTEM
HELV. CHIM. ACTA, 54. 1822 AND 1890, 1971, AND 55. 815, 1972
- 570 72 463 THOMPSON RS
PLANT PROANTHOCYANIDINS. 1. INTRODUCTION: ISOLATION, STRUCTURE, AND DISTRIBUTION IN NATURE OF PLANT PROCYANIDINS
J. CHEM. SOC., PERKIN TRANS., I, P1387, 1972
- 570 72 464 TIBANDY PV VASILYEV AF BASKAKOV YA
HERBICIDAL DERIVATIVES OF HYDROXYLAMINE. 40. ENERGY OF INTRAMOLECULAR HYDROGEN BOND AND STRUCTURE OF ASSOCIATES OF O-METHYLHYDROXYLAMINE DERIVATIVES OF SYMTRIAZINES
KHIM. GETEROT. SOEDIN., P124, 1972
- 570 72 465 TODA M
DAPHNIPHYLLUM ALKALOIDS. 2. SECODAPHNIPHYLLINE AND METHYL HOMOSECODAPHNIPHYLLATE
TETRAHEDRON, 28. 1477, 1972
- 570 72 466 TOMIMATSU T HASHIMOTO M
STUDIES ON THE CHEMICAL COMPONENTS OF RUTACEAE PLANTS. 6. COMPONENTS OF THE ROOT OF PONCIRUS TRIFOLIATA RAFINESQUE. 4. PONCITRIN, A NEW COUMARIN: STRUCTURE AND NUCLEAR OVERHAUSER EFFECTS
TETRAHEDRON, 28. 2003, 1972
- 570 72 467 TOMKO J
VERATRUM ALKALOIDS. 22. VERACINTINE, A NOVEL TYPE OF VERATRUM ALKALOID WITH A PYRROLINE RING
TETRAHEDRON LETRS, P3041, 1971
- 570 72 468 TOTI G TAMAS J TOLDOY L
1. STRUCTURE DETERMINATION OF AMIDES OF 2-ARYLAMINE-2-THIAZOLINES AND ANALOGOUS THIAZINES. INVESTIGATION OF AN ACYL MIGRATION. 2. UBER DIE STRUKTUR VON 2-ARYLAMINO-2-THIAZOLINEN, ANALOGEN THIAZINEN UND IHREN AMIDEN. VIII. DER MECHANISMUS DER MESYLWANDERUNG. 3. UBER DIE STRUKTUR VON 2-ARYLAMINO-2-THIAZOLINEN, ANALOGEN THIAZINEN UND IHREN AMIDEN. IX. REACTION MECHANISM, MASS SPECTROMETRY
MAGY. KEM. LAPJA, 26. 561, 1971, TETRAHEDRON, 28. 167, 1972, AND TETRAHEDRON LETRS, P1521, 1972
- 570 72 469 TOUBIANA MR
STRUCTURE DU CONFERTOLIDE, NOUVEAU GERMACRANOLIDE ISOLE DE VERNONIA CONFERTA (COMPOSEE)
TETRAHEDRON LETRS, P207, 1972
- 570 72 470 TRONCHET JMJ TRONCHET J (1)
1. CHIMIE ET PHARMACOLOGIE DE L'ADENOSE. IV. (HYDROXYMETHYL-3BETA-D-ERYTHROFURANNOSYL)-9-ADENINE: SYNTHÈSE, CONFORMATION EN SOLUTION ET ESSAIS BIOLOGIQUES PRELIMINAIRES. 2. EQUILIBRES CONFORMATIONNELS DE GLUCIDES AU NIVEAU DE LIAISONS SIGMA SP(2)-SP(3) C-C. 11. DERIVES D'HYDRAZONES D'ALDEHYDES-SUCRES
HELV. CHIM. ACTA, 54. 1466 AND 1660, 1971
- 570 72 471 TROST BM KINSON PL MAIER CA
STRUCTURE OF 4,8-DIHYDRODIBENZO(CD,GH)PENTALENE
JACS, 93. 7275, 1971
- 570 72 472 TSCHESCHE R LAUVEN P (1) ANNEN K (2) WELZEL P (2)
1. STEROIDS APOININE MIT MEHR ALS EINER ZUCKERKETTE. V. AVENACCSIO-B, EIN ZWEITES BISOESMOSIDISCHES STERIOD SAPONIN AUS AVENA SATIVA. 2. ZUR KONFIGURATION DER JABOROSA LACTONE, EIN NEUE ABBAUWEG FÜR WITANOLIDE. 3. AMPHIBIN-B, -C, -D UND -E, VIER PEPTIDALKALCIDE AUS ZIZYPHUS AMPHIBIA A. CHEVAL. 4. MUCRONIN-D, EIN WEITERES CYCLISCHES PEPTID ALKALOID AUS ZIZYPHUS MUCRONATA WILLO
CHEM. BER., 104. 3549 AND 3556, 1971 AND 105. 3094 AND 3106, 1972
- 570 72 473 TSCHESCHE R STRUCKME K (1) WULFF G (1,3) HOPPE HJ (2) WELMAR K (3)
UBER GLYKOSIDE MIT LACTON-BILDENDEM AGLYKON. (1) IV. UBER MEVALOSIO, DAS GLUCOSIO DES(-)(R)-MEVALONSAURELACTONS AUS DEN BLÄTTERN DER MISPEL UND EINE EINFACHE GEWINNUNG VON (-)(R)-MEVALONSAURELACTON. (2) V. UBER NARTHESIO-A UND -B, ZWEI DIASTEREOMERE LACTON-GLUCOSIDE UND IHR ANTIBIOTISCH WIRKSAMES AGLYKON AUS BEINBRECH (NARTHECIUM OSSIFRAGUM HUD.). (3) VI. UBER FOLGEPRODUKTE EINER UNBEKANNTEN GENUINEN VORSTUFE DES RANUNCULINS IN RANUNCULACEEN
CHEM. BER., 104. 3567 AND 3573, 1971 AND 105. 290, 1972
- 570 72 474 TSCHESCHE R AMMERMAN E (1) FEHLHASE H (1,2) WILHELM H (2) ANNEN K (3)
WELZEL P (3)
1. ALKALOIDE AUS RHAMNACEEN. X. SCUTIANIN-B, EIN WEITERES PEPTIDALKALOID AUS SCUTIA BUXIFOLIA REISS. 2. ALKALOIDE AUS RHAMNACEEN. XIV. MAURITIN-A UND -B, ZWEI PEPTIDALKALOIDE AUS ZIZYPHUS MAURITIANA LAM. 3. DIE STRUKTUR DES JABOROSALACTONS-F (WITANOLIDES)
TETRAHEDRON LETRS, P4405, 1971, P2609, 1972, AND TETRAHEDRON, 28. 1909, 1972
- 570 72 475 URBACH G STARK W FORSS DA
VOLATILE COMPOUNDS IN BUTTER OIL. 2. FLAVOUR AND FLAVOUR THRESHOLDS OF LACTONES, FATTY ACIDS, PHENOLS, INDOLE, AND SKATOLE IN DEODORIZED SYNTHETIC BUTTER
J. DAIRY RES., 39. 35, 1972

- 570 72 476 VAN'T-KLOOSTER HA
POSSIBILITIES OF A MASS SPECTROMETER-COMPUTER SYSTEM FOR STRUCTURAL ANALYSIS OF ORGANIC MOLECULES
CHEM. WEEKBL., 67, NO. 18, 9-15, 1971
- 570 72 477 VANDERHAEGHE H
STRUCTURE OF MINOR COMPONENTS OF VIRGINIAMYCIN-S
TETRAHEDRON LTRS, P2687, 1971
- 570 72 478 VARSHNEY IP SHAMSUDDIN KM
ABSOLUTE STRUCTURE OF ACACIC ACID
BULL. CHEM. SOC. JAPAN, 43, 3830, 1970
- 570 72 479 VENKATA RAO E
STRUKTUR VON CORCHOROSID-B
HELV. CHIM. ACTA, 54, 1960, 1971
- 570 72 480 VILLAESC FW PETTIT GR
STEROIDS AND RELATED NATURAL PRODUCTS. 69. SYNTHESIS OF 20(22)-DIHYDRO-23-DEOXYDIGITOXIGENIN. 70.
CONVERSION OF CARDENOLIDES TO ISOCARDANOLIDES
J. ORG. CHEM., 37, 569, 1972 AND J. MED. CHEM., 15, 781, 1972
- 570 72 481 VINDGRAD VI ISKANDAR S YUNUSOV SY
DITERMAMINE. A NEW BIMOLECULAR ALKALOID FROM THERMOPSIS LANCEOLATA
KHIM. PRIROD. SOEDIN., P87, 1972 IN RUSSIAN
- 570 72 482 VISCONTINI M BIERI J (1) BUZEK H (2)
1. UBER PTERINCHEMIE: ZUR FRAGE DES 'AKTIVEN FORMALDEHYDS'. WIRD DURCH FORMALDEHYD-ANLAGERUNG AN
TETRAHYDROFOLSAUREANALOGIE EIN IMIDAZOLIDINRING GEBILDET. 2. UBER PYRROLIZIDINCHEMIE. TOTAL
SYNTHESE VON (+OR-)-PLATYNECIN
HELV. CHIM. ACTA, 55, 21 AND 670, 1972
- 570 72 483 VLEGGAAR R
II. TWO NEW FLAVONES FROM TEPHROSIA POLYSTACHYOIDES BAK.F.
TETRAHEDRON LTRS, P703, 1972
- 570 72 484 VOGTLE F ZUBER M
DAS VERDUNNUNGSPRINZIP: NEUE ASPEKTE UND ANWENDUNGEN. 2. SYNTHES NEUARTIGER MITTELGIEDRIGER UND
MAKROCYCLISCHER OLIGOATHER
TETRAHEDRON LTRS, P561, 1972
- 570 72 485 VUN UNKH L
UBER DIE 'INHALTSSTOFFE' VON FILTERPAPIEREN. 1.
CHEM. BER., 104, 2071, 1971
- 570 72 486 VOTICKY Z PAULIK V
DUXUS ALKALOIDS. 10. OCCURRENCE OF A TRANS ISOMER OF CYCLOSUFFRODUXININE
CHEM. ZVESTI., 26, 376, 1972
- 570 72 487 VULFSON NS ZARETSKI VI ZAIKIN VO
MASS SPECTROMETRY OF STEROIDAL ALCOHOL CONFIGURATIONS
USP. KHIM., 41, 272, 1972 IN RUSSIAN
- 570 72 488 WAGNER H KAZMAIER P (1) BUDWEG W (2) HORHAMME L (2,4) MAURER G (3,4)
FARKAS L (3)
1. STRUKTUR DER OPERCULINSÄURE (RHAMNOCONVOLVULINSÄURE) AUS IFONDEA OPERCULATA MARTIN. 2.
TRANSACYLIERUNGSREAKTIONEN IN DER FLAVONOID. VI. SYNTHES VCN LUTEOLIN-7-BETA-RUTINOSID (SCOLYMOSID) SOWIE 3',4'-DI-O-METHYL-LUTEOLIN-7-BETA-NEOHESPERIDOSID UND -7-BETA-RUTINOSID. 3. ZUR
STRUKTUR UND SYNTHES VON GNAPHALIN. METHYL-GNAPHALIN AUS GNAPHALIM OBUSIFOLIUM L. UND
ISOGNAPHALIN AUS ACHYROCLINE SATUREOIDES. 4. ZUR STRUKTUR EINES FLAVONS AUS CITRUS RETICULATA
BLANCO. SYNTHES VON 5,4'-DIHYDROXY-6,7,8,3'-TETRAMETHOXY-FLAVON
TETRAHEDRON LTRS, P3233, 1971 AND CHEM. BER., 104, 2118, 2381, AND 3357, 1971
- 570 72 489 WAGNER H IYENGAR MA MICHAEL E (1) BEAL JL (2) HERZ W (3,4)
DULL P (5)
1. QUERCETIN-3-(O-ACETYL)-BETA-D-GLUCOPYRANOSID IN PLUNKERA FLORIBUNDA UND HELENIM HOOPESII. 2.
FLAVON-C UND D-GLYOSIDE IN THALICTRUM-ARTEN. 3. FLAVONOL-3-GLUCOSIDES IN BACCHARIS ANGUSTIFOLIA
AND BERLANDIERA PUMILA. 4. FLAVONE-C-GLYCOSIDES IN HELENIM SPECIES. 5. FLAVONE BOUND C-GLYKOSIDE
IN EUPATORIUM SEROTINUM
PHYTOCHEM., 10, 2547 AND 2553, 1971, AND 11, 444, 446, AND 1506, 1972
- 570 72 490 WAGNER H IYENGAR MA HORHAMME L
1. FLAVONOL-3-GLUCOSIDES IN EIGHT EUPATORIUM SPECIES. 2. FLAVONOIDS IN LESPEDEZA CAPITATA. 3.
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PHYTOCHEM., 11, 1504, 1518, 1857, AND 3087, 1972
- 570 72 491 WAGNER H AURNHAM G (1) DANNINGE H (1) FLORES G (2) GEISSMAN TA (2)
IYENGAR MA (3,4) SELIGMAN (3,4)
1. SYNTHES VON GLUCURONIDEN DER FLAVONOID. IV. SYNTHES VON CHRYSIN-7-BETA-D-GLUCOPYRANJRONID, -7-
BETA-D-NEOHESPERIDOSID, UND -7-BETA-D-RUTINOSID. 2. EUPATILIN AUS TANACETUM VULGARE. 3.
CHRYSOERIDOL-7-GLUCURONID IN GRINDELIA SQUARROSA. 4. FLAVONOIDS IN VERNONIA ARTEN
CHEM. BER., 105, 257, 1972 AND PHYTOCHEM., 11, 451, 2350, AND 3086, 1972
- 570 72 492 WAHLBERG I KARLSSON K ENZELL CR
NUNULAI LE LUNSTIIVENS OF VEERTUNGUE LEAF
ACTA CHEM. SCAND., 26, 1383, 1972
- 570 72 493 WAKAYAMA S
LILAC ALCOHOL-A AND -B, NEW NATURALLY OCCURRING ODOROUS INGREDIENTS
BULL. CHEM. SOC. JAPAN, 43, 3319, 1970
- 570 72 494 WALL ME CAMPBELL MF WANI MC
PLANT ANTITUMOR AGENTS. 10. TOTAL SYNTHESIS OF A RING DE ANALGG OF CAMPTOTHECIN
JACS, 94, 3632, 1972
- 570 72 495 WALTON TJ
STRUCTURE OF SIPHONAXANTHIN
PHYTOCHEM., 9, 2545, 1970
- 570 72 496 WAN AS AEXEL RT NICHOLAS HJ
STEROLS AND TRITERPENES OF OLEANDRA PISTILLARIS
PHYTOCHEM., 11, 2002, 1972

- 570 72 497 WANG AH PAUL IC RINEHART KL
CHEMISTRY OF STREPTOVARICINS. 9. X-RAY CRYSTALLOGRAPHIC STRUCTURE OF A STREPTOVARICIN-C DERIVATIVE
JACS. 93. 6275. 1971
- 570 72 498 WANI MC
PLANT ANTITUMOR AGENTS. 6. ISOLATION AND STRUCTURE OF TAXOL. A NOVEL ANTILEUKEMIC AND ANTITUMOR
AGENT FROM TAXUS BREVIFOLIA
JACS. 93. 2325. 1971
- 570 72 499 WATSON MB YOUNGSON GW
ABSOLUTE CONFIGURATION OF TROPIC ACID
J. CHEM. SOC., PERKIN TRANS. I. P1597. 1972
- 570 72 500 WEIGLE M
FLUOROGENIC NINHYDRIN REACTION. STRUCTURE OF THE FLUORESCENT PRINCIPLE
JACS. 94. 4052. 1972
- 570 72 501 WEINREB SM
FULVENES DERIVED FROM ILLUDIN-S
TETRAHEDRON LTRS. P3489. 1971
- 570 72 502 WEISGRABER KH WEISS U
PIGMENTS OF ELSINOE SPECIES. 6. A SIMPLE SYNTHESIS OF A RELATED PERYLENEQUINONE
J. CHEM. SOC., PERKIN TRANS. I. P83. 1972
- 570 72 503 WEISS E BERANUER K
NOTIZ ZUR KONSTITUTION DES LAUREPUKINS
HELV. CHIM. ACTA. 54. 1342. 1971
- 570 72 504 WENTRUP C
NITRENES DERIVED FROM POLYMETHYLENETETRAZOLES
TETRAHEDRON. 27. 1281. 1971
- 570 72 505 WERINGA WD WILLIAMS DH FEENEY J
STRUCTURE OF AN AMINO-SUGAR FROM ANTIBIOTIC VANCOMYCIN
J. CHEM. SOC., PERKIN TRANS. I. P443. 1972
- 570 72 506 WERTHEMANN L JOHNSON WS
APPLICATION OF THE CHLORO KETAL CLAISEN REACTION TO THE TOTAL SYNTHESIS OF SQUALENE. EXPERIMENTAL
DETAILS
PROC. NAT. ACAD. SCI. U.S.A. 67. 1810. 1970
- 570 72 507 WHALEY HA
STRUCTURE OF LIPOXAMYCIN. A NOVEL ANTIFUNGAL ANTIBIOTIC
JACS. 93. 3767. 1971
- 570 72 508 WOLLENWEBER E
ERMANIN. EIN NEUER NATURLICHER KAMPFEROL-METHYLATHER AUS DEM KNOSPENEXKRET VON BETULA ERMANI
TETRAHEDRON LTRS. P1767. 1971
- 570 72 509 WOO PWK
BUTIROSIDINS-A AND -B. AMINOGLYCOSIDE ANTIBIOTICS. 1. STRUCTURAL UNITS. 2. MASS SPECTROMETRIC STUDY.
3. STRUCTURES
TETRAHEDRON LTRS. P2617. P2621. AND P2625. 1971
- 570 72 510 WRIGHT LH

STRUCTURE OF DENUDATINE AND KOBUSINE: A MASS SPECTRAL STUDY OF SOME DITERPENE ALKALOIDS
THESIS. UNIV. OF GEORGIA. ATHENS. UNIV. MICROFILMS ORDER NO. 71-13.149. DISS. ABS. 318. 11. 6526.
1971

- 570 72 511 WULFSON NS BAKAEV AA ZAIKIN VG
MASS SPECTROMETRIC DETERMINATION OF CONFIGURATION OF 2-METHYL AND 1,2-
DIMETHYL-4-VINYLETHINYL(N-BUTYL)-4-HYDROXYPERHYDROQUINOLINES
ORG. MASS SPECTRY. 6. 533. 1972
- 570 72 512 WYNBERG H HOUBIERS JPM
AN ATTEMPTED ASSIGNMENT OF ABSOLUTE CONFIGURATION TO THE D-FECHT ACID AND OTHER 2,6-DISUBSTITUTED
SPIRO(13.3)HEPTANE DERIVATIVES
J. ORG. CHEM. 36. 834. 1971
- 570 72 513 YAGUDAJEV MR YUNUSOV SY
NMR, MASS, AND IR SPECTROSCOPIC STUDIES OF THE STRUCTURES OF 1-DES-N-METHYLUNGERING AND
1-DES-N-METHYLGIPEASTRINE
KHIM. PRIROD. SOEDIN. P505. 1972
- 570 72 514 YAMADA K TOGAWA Y KATO T
CONVENIENT METHOD FOR PREPARATION OF GAMMA-ARYLIDENE-ALPHA,BETA-UNSATURATED GAMMA-LACTONES.
APPLICATION TO SYNTHESIS OF THIOPHENE LACTONE OBTAINED FROM CHAMAEMELUM NOBILE L.
TETRAHEDRON. 27. 5445. 1971
- 570 72 515 YAMADA Y
SYNTHESIS OF (+OR-)-LAMPROLOBINE AND (+OR-)-EPILAMPROLOBINE
AGR. BIOL. CHEM. (TOKYO). 34. 1536. 1970
- 570 72 516 YAMAGAMI C
FORMATION ET STRUCTURE DES DIENAMINES DES CETONES ETHYLENIQUES CISOIDES: CAS DES ALCOYLIDENE-2
CYCLOHEXANONES ET DE LA DELTA8(9)OCTALONE-1
TETRAHEDRON. 27. 2967. 1971
- 570 72 517 YAMANISH T KITA Y WATANABE K
CONSTITUENTS AND COMPOSITION OF STEAM VOLATILE AROMA FROM CEYLON TEA
AGR. BIOL. CHEM. (TOKYO). 36. 1153. 1972
- 570 72 518 YANAGAWA H KATO T KITAHARA Y
1. CHEMICAL COMPONENTS OF CALLUS TISSUES OF PUMPKINS. 2. CHEMICAL COMPONENTS OF CALLUS TISSUES OF
RICE
PHYTOCHEM. 10. 2775. 1971 AND 11. 1893. 1972
- 570 72 519 YEH E MORIARTY RM YEH C
BARRIER TO INVERSION AT NITROGEN IN IMINES. CONFIGURATIONAL STUDIES UPON S-METHYL THIOIMIDATES
TETRAHEDRON LTRS. P2655. 1972

- 570 72 520 YOSHIZAWA J TOMOEDA M
STUDIES ON CONFORMATION AND REACTIVITY. 9. STEREOCHEMICAL ASPECTS OF THE DIELS-ALDER REACTION OF
DIETHYL AZODICARBOXYLATE WITH STEROID DIENES
J. CHEM. SOC. C. P1741, 1971
- 570 72 521 YUNUSOV MS RASHKES YV IBRAGIMO MU (1) YUNUSOV SY (2.3)
1. ON MASS SPECTROMETRY OF TETRAHYDROPROTOBERBERINE ALKALOIDS. 2. ON PYROLYSIS OF ACONITUM
ALKALOIDS. 3. FRAGMENTATION FEATURES OF RING-A SUBSTITUENTS OF LYCOCTONIN ALKALOIDS BY ELECTRON
IMPACT
KHIM. PRIROD. SOEDIN., P380 AND P626, 1971 AND P85, 1972
- 570 72 522 ZAKHAROV PI
1. MASS SPECTROMETRIC STUDY OF SOME DIHYDROPYRANOCUMARINS. 2. MASS SPECTROMETRIC STUDY OF LINEAR
MONOXY AND MONOACYLOXYDIHYDROFURANOCUMARINS
KHIM. PRIROD. SOEDIN., P398, 1971 AND P431, 1972 IN RUSSIAN
- 570 72 523 ZAKHAROV RI EVSTRATO RI RYBALKO KS
MASS SPECTROMETRY INVESTIGATION OF ARNIFOLIN, A NEW SESQUITERPENIC LACTONE FROM ARNICA MONTANA AND
A. FOLIOSA
KHIM. PRIROD. SOEDIN., P587, 1971 IN RUSSIAN
- 570 72 524 ZEMAN A SCHARMANN H
MASSENSPEKTROMETRIE VON LIPIDEN (EINE ZUSAMMENFASSUNG). 1.
FETTE-SEIFEN-ANSTRICH., 74, 509, 1972
- 570 72 525 ZINKEL OF SPALDING BP
STROBIC ACID, A NEW RESIN ACID FROM PINUS STROBUS
TETRAHEDRON LETS. P2459, 1971
- 575 72 001 BLOCK JH ZEI MS
DESORPTION OF CARBONIUM IONS FROM ZEOLITE SURFACES: COMPARISON OF REACTIVE SURFACE IONIZATION WITH
FIELD IONIZATION
SURFACE SCI., 27, NO. 3, XXX, 1971
- 575 72 002 DALEY HL PEREL J
LITHIUM AND SODIUM SURFACE IONIZATION ION SOURCE OPERATION AND EFFICIENCY
REV. SCI. INSTRUM., 42, 1324, 1971, AD-733 186, 1971
- 575 72 003 DUGAN JLG
MOLECULAR BEAM STUDIES OF SURFACE IONIZATION
THESIS, UNIV. OF FLORIDA, GAINESVILLE, UNIV. MICROFILMS ORDER NO. 72-9698, DISS. ABS., 328, 9, 51297
1972
- 575 72 004 FEENEY RK BACON FM ELFORD MT HCOOPER JW
SURFACE IONIZATION TYPE ION SOURCE OF BA(+) IONS FOR USE IN COLLISION EXPERIMENTS
REV. SCI. INSTRUM., 43, 549, 1972
- 575 72 005 FELDEN M REMY M
ION SOURCE USING SURFACE IONIZATION PHENOMENA
FRENCH PATENT 2,045,097, FEB. 15, 1971, TO COMMISSARIAT A L'ENERGIE ATOMIQUE, FILED MAY 30, 1969, IN
FRENCH
- 575 72 006 GENSHO R TAKEUCHI S HONDA M
DETECTION OF TRACE AMOUNTS OF MANGANESE ISOTOPES BY SURFACE IONIZATION METHOD
MASS SPECTRY, JAPAN, 20, 211, 1972 IN JAPANESE
- 575 72 007 GERLACH RL DUCHARME AR
1. IONIZATION SPECTROSCOPY OF CONTAMINATED METAL SURFACES. 2. DIFFERENTIAL CROSS SECTIONS FOR
K-SHELL IONIZATION OF SURFACE ATOMS BY ELECTRON IMPACT. 3. CROSS SECTIONS FOR INNER SHELL
IONIZATION OF ATOMS BY ELECTRON IMPACT
1. J. VAC. SCI. TECHNOL., 8, 999, 1971. 2. PHYS. REV. LETS, 27, NO. 6, 290, 1971. 3. SC-DC-722235.
SANDIA LABS., ALBUQUERQUE, NEW MEXICO, 1971. 14P. CONF-720404-2, NTIS, FROM INTERNATIONAL
CONFERENCE ON INNER SHELL IONIZATION PHENOMENA, ATLANTA, GA., APRIL 17, 1972
- 575 72 008 GERLACH RL DUCHARME AR
INNER SHELL IONIZATION OF SURFACE ATOMS BY ELECTRON IMPACT
SURFACE SCI., 29, 317, 1972 AND J. VAC. SCI. TECHNOL., 9, 748, 1972
- 575 72 009 IONOV NI MARINOVA TS FEDCHENKO MA
ISOTHERMAL HEAT OF EVAPORATION OF YTTERBIUM AND NEODYMIUM IONS ON A TUNGSTEN SURFACE
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 345, 1971, TRANSLATED FROM ZH. TEKH. FIZ., 41, 449, 1971
- 575 72 010 JOYES P TOULOUSE G
THEORY OF IONIZATION PROBABILITY FOR AN ATOM CROSSING A METAL-VACUUM SURFACE
PHYS. LETS, 39A, 267, 1972
- 575 72 011 KANNO H
ISOTOPIC FRACTIONATION IN A THERMAL ION SOURCE
BULL. CHEM. SOC. JAPAN, 44, 1808, 1971
- 575 72 012 KAWANO H
THERMAL NEGATIVE ION EMISSION FROM BINARY CESIUM HALIDE MIXTURES ON A NIOBIUM SURFACE
J. PHYS. CHEM., 75, 3741, 1971
- 575 72 013 MUELLER R WAGNER H
INFLUENCE OF OXYGEN ON THE SURFACE IONIZATION OF BARIUM ON TUNGSTEN
PP 461-6 OF BMW-FBK-70-28, FROM PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON ELECTROMAGNETIC
ISOTOPE SEPARATORS AND THE TECHNIQUES OF THEIR APPLICATIONS, MARBURG, GERMANY, SEPT. 7, 1970
- 575 72 014 MULLER R WALCHER W WASSMUTH HW
THREE METHODS FOR MEASUREMENT OF CHANGES OF WORK FUNCTION BASED ON SURFACE IONIZATION
Z. NATURFORSCH., 27A, 794, 1972 IN GERMAN
- 575 72 015 PYATIGOR GM
CHEMICAL EQUILIBRIUM NEAR THRESHOLD IN SURFACE IONIZATION OF MOLECULES
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1358, 1972
- 575 72 016 ROSENKRANZ F WAGNER HG
MEASUREMENT OF IONIZATION YIELDS OF MOLECULAR AND ATOMIC IODINE ON TUNGSTEN, TUNGSTEN (1.6 PERCENT
THO2), AND PLATINUM (8 PERCENT W) SURFACES
Z. PHYS. CHEM. (FRANKFURT), 66, 317, 1969 IN GERMAN

- 575 72 017 SASAKI N KUBO K ASANO M
VAPORIZATION AND SURFACE IONIZATION OF LaCl_2 , CeCl_2 , PrCl_2 , NdCl_2 , ThCl_2 , AND UCl_2
J. NUCL. SCI. TECHNOL. (TOKYO), 8, 614, 1971
- 575 72 018 SMITH OH
MASS SPECTROMETRIC INVESTIGATION OF SURFACE IONIZATION AND DESORPTION BEHAVIOR OF THORIUM, URANIUM, NEPTUNIUM, AND PLUTONIUM FROM HOT TUNGSTEN
THESIS, UNIV. OF TENNESSEE, KNOXVILLE, UNIV. MICROFILMS ORDER NO. 71-369, DISS. ABS., 318, 7, 3965, 1971
- 575 72 019 SMITH OH
MASS SPECTROMETRIC INVESTIGATION OF SURFACE IONIZATION, 9. DESORPTION OF URANIUM AND THORIUM NEUTRALS FROM RHENIUM, DESORPTION OF THORIUM NEUTRALS FROM TUNGSTEN, 10. DESORPTION OF URANIUM IONS AND NEUTRALS FROM CARBURIZED RHENIUM
J. CHEM. PHYS., 55, 1482 AND 4152, 1971
- 575 72 020 VINOGRADOV EB ANTIPIVA TV LYGIN VI
ULTRAVIOLET SPECTROSCOPY IN STUDYING ARYL METHANOL IONIZATION ON SURFACE OF OXIDE CATALYSTS
Zh. Fiz. Khim., 46, 1036, 1972 IN RUSSIAN
- 575 72 021 WILSON RG
SURFACE IONIZATION HYSTERESIS PHENOMENA
SURFACE SCI., 25, 385, 1971
- 575 72 022 ZANDBERG EY IONOV NI (1) TONTEGOD AY (2,3) YLSIFOV FK (2,3) PALEEV VI (4)
1. SURFACE IONIZATION, 2. THERMIONIC EMISSION OF AN $\text{Ir}(111)$ -C FILM, 3. SURFACE IONIZATION OF CSCL MOLECULES ON $\text{Ir}(111)$ -C FILM EMITTER, 4. METHOD FOR STUDYING SURFACE IONIZATION WITH FORMATION OF NEGATIVE IONS
1. TT-70-50148, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971, 2. SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1920, 1972, 3. Zh. Tekh. Fiz., 42, NO. 1, 171, 1971, 4. Zh. Tekh. Fiz., 42, NO. 4, 844, 1972
- 575 72 023 ZAZULA P
SURFACE IONIZATION PHENOMENA INVESTIGATED BY A MASS SPECTROMETRIC METHOD, MEASUREMENT OF ION INITIAL VELOCITIES AND DESORPTION ENERGIES OF IONS AND ATOMS
JIS-P-268, THESIS, INSTITUT JOZEF STEFAN, LJUBLJANA, YUGOSLAVIA, JUNE 1971, 43P IN SERBO-CROATIAN, NTIS
- 580 72 001 ALLEN BC
EFFECT OF IMPURITIES AND TEMPERATURE ON THE INTERFACIAL FREE ENERGIES AND SURFACE DIFFUSION OF REFRACTORY METALS
AD-738 599, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1972
- 580 72 002 APPELBAU JA BARAFF GA
EFFECT OF MAGNETIC FIELD ON ENERGY OF SURFACE BOUND STATES
PHYS. REV., 48, 1235, 1971
- 580 72 003 ARMOUR DG CARTER G
ANALYSIS OF BACKSCATTERED IONS AS A TECHNIQUE FOR THE STUDY OF SURFACES
J. PHYS. E, 5, 2, 1972
- 580 72 004 BAKER BG JOHNSON BB
SURFACE PROPERTIES OF NICKEL FILMS EVAPORATED IN ULTRAHIGH VACUUM
VACUUM, 21, 91, 1971
- 580 72 005 BARRAUD A MESSIER J ROSILIO A TANGUY J
ELECTRONIC PROPERTIES OF MONOMOLECULAR ORGANIC LAYERS
CEA-CNF-1872, COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY, FRANCE, CENTRE D'ETUDES NUCLEAIRES, 1971, 9P IN FRENCH
- 580 72 006 BATTY JC STICKNEY RE
QUASIEQUILIBRIUM TREATMENT OF GAS-SOLID REACTIONS, 3. RATE OF VOLATILIZATION OF TUNGSTEN BY HIGH TEMPERATURE OXIDATION
OXIDATION METALS, 3, NO. 4, 331, 1971
- 580 72 007 BRUNDLE CR
ELECTRON SPECTROSCOPY OF SURFACES
SURFACE SCI., 27, NO. 3, XXX, 1971
- 580 72 008 BRUNE D
NUCLEAR TECHNIQUE FOR ANALYSIS OF METAL SURFACES
KEM. TIDSKRIFT, 83, NO. 11, 50, 1971
- 580 72 009 CANT NW HALL WK
CATALYTIC OXIDATION, 4. ETHYLENE AND PROPYLENE OXIDATION OVER GOLD
J. PHYS. CHEM., 75, 2914, 1971
- 580 72 010 CASSUTO A PEUTENER A WEBER B
OXYGEN REACTIONS ON PLATINUM AND RHENIUM
J. VAC. SCI. TECHNOL., 9, 788, 1972
- 580 72 011 CHEN JM PAPAGEORGIOPOULOS CA
WORK FUNCTION AND LEED STUDY OF Na AND O_2 COVERED SURFACES OF $\text{W}(112)$
SURFACE SCI., 26, 499, 1971
- 580 72 012 COSTELLO DG GROCE DE HERRING DF MCGOWAN JW
EVIDENCE FOR THE NEGATIVE WORK FUNCTION ASSOCIATED WITH POSITRONS IN GOLD
PHYS. REV., 58, 1433, 1972
- 580 72 013 CULLIS CF NORRIS AC
DEPOSITION OF PYROLYTIC CARBON IN SILICA REACTORS
CARBON, 9, 517, 1971
- 580 72 014 DONG WD
SURFACE REACTION OF OXYGEN WITH TUNGSTEN
THESIS, WASHINGTON STATE UNIV., PULLMAN, 1971, 80P, UNIV. MICROFILMS ORDER NO. 71-18,567
- 580 72 015 DOOLEY GJ HAAS TW
BEHAVIOR OF REFRACTORY METAL SURFACES IN ULTRAHIGH VACUUM AS OBSERVED BY LOW ENERGY ELECTRON DIFFRACTION (LEED) AND AUGER ELECTRON SPECTROSCOPY
J. VAC. SCI. TECHNOL., 7, 590-100, 1970, FROM 2ND INTERNATIONAL VACUUM METALLURGY CONFERENCE, ANAHEIM, CALIF. CONF-700640

- 580 72 016 EVSEEV AM
DETERMINATION OF CONDENSATION COEFFICIENT OF SUBSTANCES BY KNUDSEN EFFUSION METHOD
VESTN. MOSK. UNIV., SER. II, KHIM., 12, 605, 1971
- 580 72 017 EVZHANOV K CHAPYZHN BA MALIKOVA ED
PURIFICATION OF SAMPLES FROM SURFACES IMPURITIES ON GAMMA ACTIVATION DETERMINATION OF OXYGEN,
NITROGEN, AND CARBON IN ALKALINE AND ALKALINE EARTH METALS
ZH. ANAL. KHIM., 26, 1373, 1971
- 580 72 018 FEIBELMA PJ
INCLUSION OF DYNAMICS IN ION-METAL SURFACE INTERACTION. 1.
SURFACE SCI., 27, NO. 3, XXX, 1971
- 580 72 019 HAYASHI N WATANABE J
INTERACTION OF OXYGEN WITH HOT TUNGSTEN FILAMENT: EFFECT OF THE WALL OF MEASURING CELL
SHINKU, 14, NO. 3, 89, 1971 IN JAPANESE
- 580 72 020 HAYS WJ RODGERS WE KNUTH EL
SCATTERING OF ARGON BEAMS WITH INCIDENT ENERGIES UP TO 20 EV FROM A (111) SILVER SURFACE
J. CHEM. PHYS., 56, 1652, 1972
- 580 72 021 IGNATIEV A RHODIN TN
SECONDARY ELECTRON SPECTROSCOPY: A SURFACE SENSITIVE TOOL
AMER. LAB., 4, NO. 11, 8, 1972, 22 REFERENCES
- 580 72 022 JEPSEN DW MARCUS PM JONA F
LOW ENERGY ELECTRON DIFFRACTION SPECTRA FROM (001) SURFACES OF FACE CENTERED CUBIC METALS: THEORY
AND EXPERIMENT
J. VAC. SCI. TECHNOL., 9, 638, 1972
- 580 72 023 KHASRON MS KIPERMAN SL
ON CATALYTIC ACTIVITY OF NICKEL PURIFIED IN ULTRAHIGH VACUUM
DOKL. AKAU. NAUK SSSR, 201, 404, 1971 IN RUSSIAN
- 580 72 024 KIMKHA I ON POPOVSKI VV BORESKOV GK
CATALYTIC ACTIVITY OF GROUP-IV METAL OXIDES IN OXIDATION REACTIONS. 5. ALLENE OXIDATION
KINET. KATAL., 13, 908, 1972 IN RUSSIAN
- 580 72 025 KLOSTER JP LINTZ H
EINFLUSS DER GASTEMPORATUR AUF DIE GESCHWINDIGKEIT EINER HETEROGENEN REAKTION. EIN PARASITÄRER
EFFEKT BEI DER UNTERSUCHUNG DER N₂O ZERSETZUNG AUF PLATIN IN EINEM GESCHLOSSENEN REAKTOR
Z. PHYS. CHEM. (FRANKFURT), 78, 215, 1972
- 580 72 026 LAWLESS K
A STUDY OF THE INITIAL STAGES OF THE REACTION OF METAL SINGLE CRYSTALS WITH HOT GASES
AD-729 513, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151, 1971
- 580 72 027 LINTZ HG PENTENERO A LE GOFF P (1)
1. REALIZATION OF A STEP FUNCTION OF PRESSURE WITH THE HELP OF A MOLECULAR BEAM: CATALYTIC ETHYLENE
OXIDATION ON TUNGSTEN. 2. ETUDE DES INTERACTIONS CHIMIQUES GAZ-SOLIDE PAR LA TECHNIQUE DU FAISCEAU
MOLECULAIRE: NOUVELLE INTERPRETATION DE LA REFLEXION D'UN FAISCEAU D'HELIUM SUR UNE SURFACE DE
RHENIUM EN PRESENCE D'OXYGENE
BER. BUNSEN. PHYS. CHEM., 75, 1042, 1971 IN GERMAN AND SURFACE SCI., 30, 499, 1972
- 580 72 028 LOVELL VM

STUDY OF MINERAL-SURFACE PROPERTIES BY THE USE OF GAS ADSORPTION MEASUREMENTS
NIM-1402, NATIONAL INST. FOR METALLURGY, JOHANNESBURG, SOUTH AFRICA, FEB. 1972, 36P. NTIS
- 580 72 029 MADIX RJ SUSU AA
MOLECULAR BEAM CHEMICAL RELAXATION STUDIES OF MOLECULAR BROMINE WITH GERMANIUM AT HIGH TEMPERATURES
J. VAC. SCI. TECHNOL., 9, 915, 1972
- 580 72 030 MAGNE P DUVAL K
KINETICS OF GRAPHITE OXIDATION IN N₂O: COMPARISON WITH OXIDATION IN OXYGEN
BULL. SOC. CHIM. FRANCE, 1971 IN FRENCH
- 580 72 031 MARENCO G SCHUTTE A SCOLES G
INTERACTION OF ATOMIC AND MOLECULAR HYDROGEN BEAMS WITH SURFACES AT VERY LOW TEMPERATURES
J. VAC. SCI. TECHNOL., 9, 921, 1972
- 580 72 032 MASAMUNE S SAKAI M DARBY N
PALLADIUM(II) CATALYSED REARRANGEMENT OF BICYCLOBUTANES: DIRECT OBSERVATION OF INTERMEDIATE
COMPLEXES
J. CHEM. SOC., CHEM. COMMUN., 1971, 1972
- 580 72 033 MATSUSHITA T HAMILL WH
CHEMICAL EFFECTS DUE TO LOW ENERGY ELECTRON IMPACT ON THIN FILMS OF CYCLOHEXANE AND N-HEXANE AT 77
DEGREES K
J. PHYS. CHEM., 76, 1255, 1972
- 580 72 034 MCALLISTER JW WHITE JM
OXIDATION OF CARBON AT THE SURFACE OF NICKEL
J. PHYS. CHEM., 76, 968, 1972
- 580 72 035 MCCARROLL B MCKEE DW
REACTIVITY OF GRAPHITE SURFACES WITH ATOMS AND MOLECULES OF HYDROGEN, OXYGEN, AND NITROGEN
CARBON, 9, 201, 1971
- 580 72 036 MCCracken GM
TRAPPING REFLECTION AND REEMISSION OF HYDROGEN IONS AT SOLID SURFACES
J. VAC. SCI. TECHNOL., 9, 361, 1972
- 580 72 037 MELIN GA MADIX RJ
ENERGY ACCOMMODATION DURING HYDROGEN ATOM RECOMBINATION ON METAL SURFACES
TRANS. FARADAY SOC., 67, NO. 9, XXX, 1971
- 580 72 038 MERKEL PB HAMILL WH
ENERGY LOSS SPECTRA OF LOW ENERGY ELECTRONS SCATTERED FROM THIN SOLID MOLECULAR FILMS
J. CHEM. PHYS., 55, 1409, 1971

- 580 72 039 MEYER F DEKLUIZE EE BOOTSMA GA
ELLIPSOmetry AND CLEAN SURFACES OF SILICON AND GERMANIUM
SURFACE SCI., 27, 88, 1971
- 580 72 040 MOCHIDA I KATO A SEIYAMA T
ELIMINATION REACTIONS ON SOLID ACID CATALYSTS. 3. DEHYDRATION OF ETHANOL ON METAL SURFACES
J. CATAL., 22, 23, 1971
- 580 72 041 MOYES RB WELLS PB (1) BARON K (2) SQUIRE RC (2)
1. METAL CATALYZED HYDROGEN EXCHANGE BETWEEN PYRIDINE AND DEUTERIUM. 2. HYDROGEN EXCHANGE REACTION
BETWEEN BENZENE AND PERDEUTERIOBENZENE CATALYZED BY EVAPORATED METAL FILMS
J. CATAL., 21, 86, 1971 AND 22, 333, 1971
- 580 72 042 NAITO S KONDO T ICHIKAWA M
IDENTIFICATION OF REACTION INTERMEDIATES BY MICROWAVE SPECTROSCOPY. CATALYTIC REACTIONS BETWEEN
PROPYLENE AND DEUTERIUM OVER ZINC OXIDE
J. PHYS. CHEM., 76, 2184, 1972
- 580 72 043 NO AUTHOR
ENERGETIC COLLISIONS OF ORGANIC IONS WITH METAL SURFACES
TID-25886. FLORIDA STATE UNIV., TALLAHASSEE, 12P
- 580 72 044 PANCHENKOV GM KUZNETSOV DI (1) SHAUKI MK (1) ZHURAVEL GI (2)
1. OLIGOMERIZATION AND HYDRO-OLIGOMERIZATION OF PROPYLENE ON ZEOLITES. 2. RADIATION-THERMAL CRACKING
KINETICS OF PARAFFINIC GAS OILS AND ALKANE HYDROCARBONS
PETROL. CHEM. USSR (ENGL. TRANS.), 11, NO. 1, 1, 1971 AND ZH. FIZ. KHIM., 46, 1438, 1972 IN RUSSIAN
- 580 72 045 PENTENERO A LE GOFF P
ETUDE DES REACTEURS CHIMIQUES CYLINDRIQUES EN REGIME DE KNUDSEN. 1. LES EQUATIONS GENERALES ET LEUR
SOLUTION NUMERIQUE APPROCHEE. 2. DETERMINATION PAR EXPERIMENTATION NUMERIQUE DES CARACTERISTIQUES
PHYSIQUES DU REACTEUR
J. CHIM. PHYS., 68, 1027 AND 1033, 1971
- 580 72 046 SAMSONOV GV KAPLINA GS
SURFACE NITRIDING OF ZIRCONIUM
IZV. AKADE. NAUK SSSR, METAL., NO. 6, 222, 1970 IN RUSSIAN
- 580 72 047 SCHMITT JL WALKER PL
CARBON MOLECULAR SIEVE SUPPORTS FOR METAL CATALYSTS. 2. SELECTIVE HYDROGENATION OF HYDROCARBONS OVER
PLATINUM SUPPORTED ON POLYFURFURYL ALCOHOL CARBON
CARBON, 10, 87, 1972
- 580 72 048 SECCO EA SWEE-CHYE YEO R
GAS-SOLID EXCHANGE REACTIONS: ZINC VAPOR AND MONOCRYSTALLINE ZINC TELLURIDE
CAN. J. CHEM., 49, 1953, 1971
- 580 72 049 SHEETS R BLYHOLDER G
CONCERNING THE ISOTOPE EFFECT IN THE DECOMPOSITION OF AMMONIA ON TUNGSTEN SURFACES
J. PHYS. CHEM., 76, 970, 1972
- 580 72 050 SIEGEL MW BORING JW
THE INTERACTION OF D(+) IONS WITH THE INTERIOR SURFACE OF A COPPER CHAMBER
N72-12164, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22191, 1971
- 580 72 051 SLAWSON V MEAD JF

STABILITY OF UNSATURATED METHYL ESTERS OF FATTY ACIDS ON SURFACES
UCLA-12-840, CALIFORNIA UNIV., LOS ANGELES, LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY, 1970.
16P, NTIS
- 580 72 052 SMITH JN PALMER RL
MOLECULAR BEAM STUDY OF OXIDATION OF DEUTERIUM ON A PLATINUM(111) SURFACE
J. CHEM. PHYS., 56, 13, 1972
- 580 72 053 SOTNIKOV VT RED'KIN VS ZASHKVARA VV CHAIKOVSKII EF KORSUNSKII MI
DECREASE IN CARBON CONCENTRATION IN MO2C AND W2C SURFACE LAYERS
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 878, 1971. TRANSLATED FROM FIZ. TVERD. TELA, 13, 1058,
1971
- 580 72 054 STEWARD LM STAKEBAKE JL
CORROSIVE BEHAVIOR OF 304 AND 304L STAINLESS STEEL IN GASEOUS ENVIRONMENTS: AN ANNOTATED
BIBLIOGRAPHY
RFP-1733, DOW CHEMICAL CO., GOLDEN, COLO., ROCKY FLATS DIV., OCT. 1971, 18P, NTIS
- 580 72 055 SUSU AA
REACTIVE SCATTERING OF ATOMIC AND MOLECULAR GASES FROM CLEAN ELEMENTAL SEMICONDUCTOR SURFACES
THESIS, STANFORD UNIV., CALIFORNIA, UNIV. MICROFILMS ORDER NO. 72-11,677, DISS., ABS., 32B, 10, 5770,
1972
- 580 72 056 TARDIF A MICHEL JM WACH J
KINETICS OF DECOMPOSITION OF PENTANE AT 10(TO-5) TO 10(TO-7) TORR ON SURFACE OF TANTALUM AND TA2C
AND TAC BETWEEN 1300 AND 2300 DEGREES K
SURFACE SCI., 26, 255, 1971 IN FRENCH
- 580 72 057 WEBER B FUSY J CASSUTO A
MASS SPECTROMETRIC STUDY OF THE OXYGEN-RHENIUM SYSTEM
PP 1319-24 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 580 72 058 WEBER RE
AUGER ELECTRON SPECTROSCOPY FOR THIN FILM ANALYSIS
RES. DEVELOP., 23, NO. 10, 22, 1972, 39 REFERENCES
- 580 72 059 WEINBERG WH MERRILL RP
SCATTERING OF HELIUM, NEON, ARGON, KRYPTON, XENON, AND DEUTERIUM FROM A TUNGSTEN(110) SURFACE
CHARACTERIZED BY LEED
J. CHEM. PHYS., 56, 2881, 1972
- 580 72 060 WEST LA SOMORJAI GA (2)
1. STUDIES OF GAS-SURFACE INTERACTIONS AT THE (100) CRYSTAL FACE OF PLATINUM BY MOLECULAR BEAM
SCATTERING, LOW ENERGY ELECTRON DIFFRACTION, AND AUGER ELECTRON SPECTROSCOPY. 2. REACTIVE
SCATTERING OF N2O MOLECULAR BEAMS FROM CLEAN AND CARBON COVERED PLATINUM(100) SINGLE CRYSTAL
SURFACES
1. LBL-107, THESIS, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., NOV. 1971, 277P, NTIS. 2. J.
VAC. SCI. TECHNOL., 9, 668, 1972. LBL-133, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., JULY
1971, 17P, CONF-711005-3, NTIS. FROM INTERNATIONAL CONFERENCE ON SOLID SURFACES, BOSTON, MASS.,
OCT. 11, 1971

- 580 72 061 YASUDA Y HIROTA K
EVIDENCE FOR DIRECT CIS-TRANS ISOMERIZATION OF DIDEUTEROETHYLENE ON NICKEL CATALYST
J. CATAL., 26, NO. 1, XXX, 1972
- 580 72 062 ZASHKVARA VV RED'KIN VS KOLOT VY (1) KORSUNSKII MI
1. CHANGES IN CHARACTERISTIC ENERGY LOSS SPECTRUM OF MOLYBDENUM DURING OXIDATION OF MOLYBDENUM SURFACE. 2. INTERPRETATION OF 30 - 70 EV ENERGY LOSS PEAKS IN SPECTRA OF ELECTRONS REFLECTED FROM TRANSITION METALS
SOV. PHYS. SOLID STATE (ENGL. TRANS.), 13, 2836, 1972 AND FIZ. TVERD. TELA, 14, 2182, 1972
- 582 72 001 AMIN LM WARNECK P
REACTION OF OZONE WITH CARBON MONOXIDE
J. PHYS. CHEM., 76, 1514, 1972
- 582 72 002 ATKINS GM BURGESS EM
SYNTHESIS AND REACTIONS OF N-SULFONYLAMINES
JACS, 94, 6135, 1972
- 582 72 003 BAKER RR WINKLER CA
REACTION OF ACTIVE NITROGEN WITH CARBONYL CHLORIDE
CAN. J. CHEM., 49, 3846, 1971
- 582 72 004 BARKER R
DECOMPOSITION OF AMMONIA IN A MICROWAVE DISCHARGE
J. CHEM. SOC., FARADAY TRANS., 1, 68, 315, 1972
- 582 72 005 BOYCE CDC WEBB SB
1. REACTION OF TRANS-1,2-DICHLOROETHYLENE WITH PHOSPHORUS TRICHLORIDE-OXYGEN: DIRECT FORMATION OF A PHOSPHATE DERIVATIVE FROM AN OLEFIN. 2. REEXAMINATION OF THE VINYL CHLORIDE-PHOSPHORUS TRICHLORIDE-OXYGEN REACTION: AN EXAMPLE OF DIRECT FORMATION OF A PHOSPHATE DERIVATIVE FROM AN OLEFIN
J. CHEM. SOC. C, P1613 AND P3987, 1971
- 582 72 006 BRINKMAN MR ALLEN CW
REACTION OF TETRASULFUR TETRANITRIDE WITH STRAINED OLEFINS
JACS, 94, 1550, 1972
- 582 72 007 DYATKIN BL
REACTION OF PERFLUOROALKYL CARBANIONS WITH MERCURY SALTS
TETRAHEDRON, 27, 2843, 1971
- 582 72 008 EDWARDS JO
INORGANIC REACTION MECHANISMS. PROGRESS IN INORGANIC CHEMISTRY, VOLUME 13
BOOK, JOHN WILEY AND SONS INC., NEW YORK, 1970, 357P
- 582 72 009 ELLIS K
PREPARATION OF PHOSPHINIC CHLORIDES FROM PHOSPHINIC AMIDES
J. CHEM. SOC., PERKIN TRANS., I, P1184, 1972
- 582 72 010 ELMALEH D
1. REACTIONS OF 1,1-DIARYLETHYLENES WITH SELENIUM COMPOUNDS. 2. REACTIONS OF 1,1-DIARYLETHYLENES WITH TELLURIUM HALIDES
J. CHEM. SOC. C, P2637 AND P3100, 1971
- 582 72 011 ELTER G
ZUR REAKTION ZWISCHEN BORTRIFLUORID UND BIS(TRIMETHYLSILYL) AMIN

CHEM. BER., 105, 115, 1972
- 582 72 012 GIUMANINI AG GRASSI S
HETERO-BENZYL QUATERNARY AMMONIUM SALTS. 1. REACTION OF N-(2-THIENYL)-N,N-DIMETHYLANILINIUM CHLORIDE WITH STRONG BASES
CHEM. IND. (LONDON), P1567, 1970
- 582 72 013 GLUSHKOV MA ERSHOVA MM OVCHINNI NA
REACTIONS WITH PARTICIPATION OF PHOSPHINE DERIVATIVES OF NIOBIUM AND TANTALUM PENTACHLORIDES
ZH. NEORG. KHIM., 17, 147, 1972 IN RUSSIAN
- 582 72 014 GRAY E
REACTION OF HYDROGEN PEROXIDE WITH NITROGEN DIOXIDE AND NITRIC OXIDE
J. PHYS. CHEM., 76, 1010, 1972
- 582 72 015 HAAS A LORENZ R (1,3) PLASS V (2)
1. DARSTELLUNG UND EIGENSCHAFTEN VON CHLORFLUORMETHANSULFENSAUREAMIDEN: SOWIE BIS UND TRIS(CHLORFLUORMETHYLSULFENYL)-AMINEN. 2. CF3S SUBSTITUIERTE CYANAMIDE, CHLORFORMAMIDINE UND DEREN CHEMISCHES VERHALTEN. MELAMINE. 3. UBER TRICHLORMETHANSULFENSAUREAMID CL3CSNH2 UND ADDUKTE VON BIS(CHLORFLUORMETHYLSULFENYL)-AMINEN MIT STICKSTOFFBASEN
CHEM. BER., 105, 273, 2047, AND 3161, 1972
- 582 72 016 HESSETT B
1. PREPARATION AND THERMOCHEMISTRY OF COMPLEXES OF DELTA2-TETRAZABOROLINES WITH TITANIUM TETRACHLORIDE, BORON TRICHLORIDE, ANTIMONY PENTACHLORIDE, AND STANNIC CHLORIDE. 2. PREPARATION, PHYSICAL AND SPECTROSCOPIC PROPERTIES OF B-HALOGEN AND B-PSEUDOHALOGEN DELTA2-TETRAZABOROLINES, AND PREPARATION OF THE DIBORON COMPOUND ME2N4B2NAME2
J. CHEM. SOC. A, P2466, 1971 AND J. CHEM. SOC., DALTON TRANS., P131, 1972
- 582 72 017 JOSS UR CALVIN M
SYNTHESIS OF DINITROXIDES
J. ORG. CHEM., 37, 2015, 1972
- 582 72 018 KACHEAEV LI ZHILTSOV SF DRUZHKOY ON
ORGANOMERCURY CHLORIDE REACTIONS WITH SODIUM TETRAPHENYLBORATE
ZH. OBSHCH. KHIM., 42, 1029, 1972
- 582 72 019 KARGER MH MAZUR Y
MIXED SULFONIC-CARBOXYLIC ANHYDRIDES. 1. SYNTHESIS AND THERMAL STABILITY. NEW SYNTHESSES OF SULFONIC ANHYDRIDES
J. ORG. CHEM., 36, 528, 1971
- 582 72 020 KOBAYASHI N FUJISAWA T
SULFUR CONTAINING POLYMERS. 1. POLYCONDENSATION OF CHLOROCARBONYLSULFENYL CHLORIDE WITH DIAMINES
MACROMOLECULES, 5, 106, 1972

- 582 72 021 LUKYANOV VB EREMEEV AP NESMEYAN AN
EFFECT OF CERTAIN PARAMETERS ON SYNTHESIS OF ALDEHYDES IN SILENT DISCHARGE
VESTN. MOSK. UNIV., SER. II, KHIM., 12, NO. 5, XXX, 1971
- 582 72 022 MERRYMAN EL LEVY A
DISULFUR AND THE LOWER OXIDES OF SULFUR IN HYDROGEN SULFIDE FLAMES. REMOVAL OF LOWER OXIDES
J. PHYS. CHEM., 76, 1925, 1972
- 582 72 023 METCALF SG SHREEVE JM
BIS(HEXAFLUOROISOPROPYLIDENIMINO) DISULFIDE, CHLORO(HEXAFLUOROISOPROPYLIDENIMINO) SULFUR(II) AND
SOME DERIVATIVES
INORG. CHEM., 11, 1631, 1972
- 582 72 024 NIKOLAJC M LUCZAK J
DIMETHYL SULPHOXIDE OXIDATIONS: NEW METHOD FOR CONVERSION OF C=S AND C=SE GROUPS INTO A CARBONYL
GROUP
CHEM. IND. (LONDON), P76, 1972
- 582 72 025 MOCK WL ISAAC PAH
ORIGIN OF THE INSTABILITY OF N-NITROSAZIRIDINES
JACS, 94, 2749, 1972
- 582 72 026 O'NEILL SR SHREEVE JM
FLUOROPHOSPHORUS AZIDES
INORG. CHEM., 11, 1629, 1972
- 582 72 027 ROESKY HW WIEZER H (2)
1. PERFLUOROALKANESULFINIC ACIDS. 2. ZINNOORGANISCHE VERBINDUNGEN TEILFLUORIERTEN SUBSTITUENTEN. 3.
LINEARE UND CYCLISCHE CHLORPHOSPHAZENE. 4. NEUARTIGE BOR-PHOSPHOR VERBINDUNGEN
ANGEW. CHEM. INT. ED. ENGL., 10, 810, 1971. CHEM. BER., 104, 2258, 1971. AND CHEM. BER., 105, 1439
AND 1726, 1972
- 582 72 028 ROESKY HW TUTUNKARDES S (1,4) BOWING WG (2,3) SCHAPER W (4)
1. DARSTELLUNG FLUORIERTER VERBINDUNGEN MIT S=N DOBBELBINDUNG. 2. UMLAGERUNGSREAKTIONEN AN DER P=N
DOBBELBINDUNG. 3. SUBSTITUENTENEINFLUSSE AUF DIE UMLAGERUNG AN DER P=N DOBBELBINDUNG. 4. REACTIONS
OF SULFUR AND PHOSPHORUS AMIDES WITH TRICHLORO-METHANSULFENYL CHLORIDE
CHEM. BER., 104, 1655 AND 3204, 1971. Z. ANORG. ALLG. CHEM., 386, 191, 1971, AND Z. NATURFORSCH.,
27B, 620, 1972
- 582 72 029 ROSS DS SHARP OWA
ARYLOXY DERIVATIVES OF THIONYL TETRAFLUORIDE
J. CHEM. SOC., DALTON TRANS., P34, 1972
- 582 72 030 SANDMANN H BAUDLER M
REAKTION VON SULFURYLCHLORID MIT TRIATHYLAMIN: EINFACHE DARSTELLUNG VON DIATHYL(1,2,2-
TRICHLOR-VINYLAMIN
CHEM. BER., 105, 1000, 1972
- 582 72 031 SCHINDLER N PLOGER W
NOTIZ UBER DIE ADDITION VON PHOSPHORIGSAUREDIESTERN AN INAMINE
CHEM. BER., 104, 2021, 1971
- 582 72 032 SCHULTZ CW RUDOLPH RW
THE PHOSPHORUS-PHOSPHORUS BOND. 1. COMPLEXES CONTAINING HIGHLY CONNECTED PHOSPHORUS ATOMS.
HIN)ME(3-N)PPF5. THE DIRECTLY BONDED PHOSPHORUS-PHOSPHORUS COUPLING CONSTANT
JACS, 93, 1898, 1971
- 582 72 033 SEEL F VELLEMAN KD (2-5) GOMBLER W (1,5) BEDENZ R (1)
1. NACHWEIS DER ENTSTEHUNG VON DIFLUORPOLYSULFANEN BEI DER UMSETZUNG VON SCHWEFEL MIT SILBERFLUORID.
2. NOTIZ UBER TETRAMETHYLOPHOSPHONIUMCHLORID UND DIMETHYLPHOSPHONIUMCHLORID. 3. NOTIZ UBER DIE
UMSETZUNG VON DIMETHYLCHLORPHOSPHIN MIT DIMETHYLPHOSPHINOXID. 4. UMSETZUNGEN VON
DIMETHYLCHLORPHOSPHIN MIT METHYLALKOHOL, METHYLMERCAPTAN UND DEREN NATRIUMSALZEN. 5. REACTIONS OF
DIMETHYLFLUOROPHOSPHINE WITH METHANOL AND METHANETHIOL
Z. ANORG. ALLG. CHEM., 380, 262, 1971. CHEM. BER., 104, 2967 AND 2979, 1971. CHEM. BER., 105, 406,
1972. AND ANN. CHEM., 756, 181, 1972
- 582 72 034 VESTAL M DAY A SNYDERMA JS FERGUSSO G LAMPE FW
1. KINETIC STUDIES ON THE PYROLYSIS, DESULFURIZATION, AND GASIFICATION OF COALS WITH EMPHASIS ON THE
NONISOTHERMAL KINETIC METHOD. 2. SULFUR BEHAVIOR AND SEQUESTERING OF SULFUR COMPOUNDS DURING COAL
CARBONIZATION, GASIFICATION, AND COMBUSTION
PB-211 338 AND PB-211 481. NATIONAL TECHNICAL INFORMATION SERVICE. (NTIS). U. S. DEPT. OF COMMERCE,
SPRINGFIELD, VA. 22151. 1969 AND 1971
- 582 72 035 VON HALASZ SP GLEMSEK O (2,3)
1. DARSTELLUNG VON S-PHENOXYSCHWEFELOXIDTRIFLUORID UND EINIGER
S-PHENOXYSCHWEFELOXIDMONOFLUORIDIMIDE. 2. DARSTELLUNG VON PIPERIDINOSCHWEFEL(IV)TRIFLUORID SOWIE
NEUEN AMINOSCHWEFEL(IV)MONOFLUORIDIMIDEN. 3. DARSTELLUNG VON PIPERIDINOSCHWEFEL(VI)OXIDTRIFLUORID
SOWIE NEUEN AMINOSCHWEFEL(VI)OXIDMONOFLUORIDIMIDEN
CHEM. BER., 104, 1242, 1247, AND 1256, 1971
- 582 72 036 WOLFE CM STILLMAN GE
HIGH PURITY GAAS. EPITAXIAL GROWTH, GALLIUM ARSENIDES
AD-729 589. MASSACHUSETTS INST. OF TECHNOLOGY, LEXINGTON, LINCOLN LAB. 16P
- 582 72 037 YOUNG DE ANDERSON LR FOX WB
PERHALOALKYL HYPOCHLORITES. 5. PERFLUOROALKYL BORATE ESTERS FROM REACTIONS WITH BORON TRICHLORIDE
INORG. CHEM., 10, NO. 12, XXX, 1971
- 585 72 001 ABBOTT PJ
ADDITION REACTIONS OF HETEROCYCLIC COMPOUNDS. 50. REACTIONS OF 1-ALKYLBENZOTRIAZOLES AND
BENZOTRIZOLINES WITH DIMETHYL ACETYLENEDICARBOXYLATE
J. CHEM. SOC., PERKIN TRANS., I, P2182, 1972
- 585 72 002 ABERHART DJ CASPI E
CYCLIZATION OF SOME DELTA7-22-HYDROXY STEROIDS TO 14BETA,22-ETHERS
J. CHEM. SOC., C, P2069, 1971
- 585 72 003 ABRAMOVITCH RA ROGERS RB (2) TAKAYA T (4)
1. N-ARYLOXYPYRIDINIUM SALTS AND THEIR BASE CATALYZED REARRANGEMENT. 2. REACTION OF
QUINOLINE-1-OXIDES WITH N-PHENYLBENZIMIDOYL CHLORIDE. 3. DIRECT ALKYLATION OF PYRIDINE-1-OXIDES.
4. REACTION OF SULFONYL AZIDES WITH PYRIDINES AND FUSED PYRIDINE DERIVATIVES
JACS, 93, 3074, 1971. TETRAHEDRON LETS, P1951, 1971. AND J. ORG. CHEM., 37, 1690 AND 2022, 1972

- 585 72 004 ABUSHANAB E
NOVEL REACTION OF AMMONIUM CHLORIDE AND ALPHA-AROMATIC AMINE CARBOXYALDEHYDES
TETRAHEDRON LTRS, P1441, 1971
- 585 72 005 ACHESON RM STUBBS JK (1) NISBET OF (2) WELLARD JM (3)
ADDITION REACTIONS OF HETEROCYCLIC COMPOUNDS. (1) XLIV. SYNTHESIS AND PHOTOISOMERISM OF SOME
QUINOLIZINE ESTERS. (2) XLV. NEW AZEPINES FROM SUBSTITUTED 2-METHYLOQUINOLINES AND DIALKYL
ACETYLENICARBOXYLATES. (3) XLVI. REACTIONS OF ACETYLENIC ESTERS WITH PYRIDINES IN THE PRESENCE
OF PROTON DONORS AND WITH ALKYL 3-(2-PYRIDYL)-TRANS-ACRYLATES
J. CHEM. SOC. C, P3285, P3291, AND P3296, 1971
- 585 72 006 ACHESON RM
ADDITION REACTIONS OF HETEROCYCLIC COMPOUNDS. 47. FORMATION OF BENZAZEPINES FROM INDOLES WITH
DIMETHYL ACETYLENICARBOXYLATE IN ACETONITRILE: CRYSTAL STRUCTURE OF DIMETHYL 2,3-
DIHYDRO-2-INDOL-3-YLBENZ(8)AZEPINE-3,4-DICARBOXYLATE. 48. REACTIONS OF INDOLES WITH DIMETHYL
ACETYLENICARBOXYLATE IN THE PRESENCE AND ABSENCE OF SOLVENTS
J. CHEM. SOC., PERKIN TRANS., I, P968 AND P1569, 1972
- 585 72 007 ACKRELL J
FURAZANS AND FURAZAN OXIDES. 1. SYNTHESIS AND REACTIONS OF SOME STRAINED FURAZAN N-OXIDES
J. CHEM. SOC., PERKIN TRANS., I, P1587, 1972
- 585 72 008 ADAMS TC
CONDENSATIONS WITH TRILITHIODIANILIDES AND SUBSEQUENT ACID CATALYZED REACTIONS. STEREOCHEMICAL AND
MECHANISTIC STUDIES
THESIS. DUKE UNIV., DURHAM, NORTH CAROLINA. UNIV. MICROFILMS ORDER NO. 72-11,062. DISS. ABS., 32B.
9. 5024, 1972
- 585 72 009 ADAMSON J
REACTIVE INTERMEDIATES. 13. BENZOCYCLOPROPENONES AS INTERMEDIATES IN THE OXIDATION OF
3-AMINOBENZOTIAZIN-4-ONES
J. CHEM. SOC. C, P981, 1971
- 585 72 010 AGER E
POLYHALOGENO-AROMATIC COMPOUNDS. 22. SOME REACTIONS OF TETRACHLORO-4-METHYLSULPHONYLPYRIDINE AND
RELATED COMPOUNDS
J. CHEM. SOC., PERKIN TRANS., I, P133, 1972
- 585 72 011 AL-JALLU MNA
PREPARATION AND SPECTROSCOPIC PROPERTIES OF 2,2,4,5-TETRAMETHYLHEX-4-EN-3-ONE
J. OILS, 600, 8, P014, 1971
- 585 72 012 ALBERT A
V-TRIAZOLO(4,5-D)PYRIMIDINES (8-AZAPURINES). 8. SYNTHESIS, FROM 1,2,3-TRIAZOLES, OF 1- AND 2-METHYL
DERIVATIVES OF 5,7-DISUBSTITUTED V-TRIAZOLO(4,5-D)PYRIMIDINES (7- AND 8-METHYL 2,6-DISUBSTITUTED
8-AZAPURINES). 9. SOME NUCLEOPHILIC ADDITION REACTIONS. 10. NEW ROUTES TO V-TRIAZOLO(4,5-
D)PYRIMIDINES VIA 4-DIMETHYLAMINOMETHYLENEAMINO-1,2,3-TRIAZOLE-5-CARBONITRILES. 11. PREPARATION OF
2-BENZYL-V-TRIAZOLO(4,5-D)PYRIMIDINE (8-BENZYL-8-AZAPURINE)
J. CHEM. SOC., PERKIN TRANS., I, P449, P457, P461, AND P468, 1972
- 585 72 013 ALEXANDER CW GRIMSHAW J
DYNOPIINACOL. 2. TAUTOMERISM OF 4-METHYL-2,4,6-TRIPHENYLCYCLOHEXA-2,6-DIENYL PHENYL KETONE (1-
SUOPYMUPINACULONE)
J. CHEM. SOC., PERKIN TRANS., I, P1372, 1972
- 585 72 014 ALLARA DL

MECHANISTIC STUDY OF COPPER(II) CATALYZED OXIDATION OF FLUORENE WITH MOLECULAR OXYGEN
J. ORG. CHEM., 37, 2448, 1972
- 585 72 015 ALPER H KEUNG ECH
NEW SYNTHESIS OF 1,3-THIAZINE RING SYSTEM
J. ORG. CHEM., 37, 1464, 1972
- 585 72 016 ALTMAN LJ
SYNTHESIS AND CONVERSION OF PRESQUALENE ALCOHOL TO SQUALENE
JACS, 93, 1782, 1972
- 585 72 017 ANASTASSIOU AG GRIFFITH RC
EVIDENCE FOR CIS,CIS,TRANS,CIS-1,3,5,7-CYCLOOCTATETRAENE IN THE THERMAL BOND RELOCATION OF
CIS-BICYCLO(6.1.0)NONA-2,4,6-TRIENE
JACS, 93, 3083, 1971
- 585 72 018 ANDERSON DJ
REACTIVE INTERMEDIATES. 20. PREPARATION OF SULPHOXIMIDES FROM SULPHOXIDES AND N-AMINOLACTAMS, AND A
STUDY OF THEIR FRAGMENTATION
J. CHEM. SOC., PERKIN TRANS., I, P1317, 1972
- 585 72 019 ANDERSON PG
SYNTHESIS OF 1,2,3,3A,8,8A-HEXAHYDROINDENO(2,1-B)PYRROLE
TETRAHEDRON LTRS, P2707, 1971
- 585 72 020 ANDREEVA AP POLYAKOV AS VASILJEV AE
RESYNTHESIS AND SOME CHEMICAL AND PHYSICOCHEMICAL CHARACTERISTICS OF AMINOENANTHYL AND PHENYLALANYL
HAEMOGLOBIN
BIOKHIMIYA, 37, 188, 1972 IN RUSSIAN
- 585 72 021 ANDREW HF
NITRATION OF 3-METHYLFLUORANTHENE
J. CHEM. SOC., PERKIN TRANS., I, P755, 1972
- 585 72 022 ANGYAL SJ JAMES K
2,4-O-BENZYLIDENE-L-XYLOSE AND 2,4-O-METHYLENE-L-XYLOSE: SUGARS WHICH DO NOT READILY FORM PYRANOSE
RINGS
CARBOHYD. RES., 15, 91, 1970
- 585 72 023 ANHALT JP WHITE EH (2)
1. SYNTHESIS OF 9,10-CYCLOBUTENOPHENANTHRENE FROM 9,10-DIMETHYLENE-9,10-DIHYDROPHENANTHRENE. 2.
PYROLYSIS OF 2-METHYLENE-3,4,5,6-DIBENZO-3',4'-(9,10-PHENANTHRO)SPIROBICYCLOHEXANE TO YIELD
TETRABENZANTHRACENE AND ETHYLENE
J. ORG. CHEM., 37, 1015, 1972 AND TETRAHEDRON, 28, 2921, 1972

- 585 72 024 ANSELL MF WHITFIELD GF (1)
1. FRIEDEL-CRAFTS REACTIONS OF N-ALKENOIC ACIDS AND OMEGA-CHLOROALKENOIC ACIDS. 2. ORGANIC REACTIONS IN STRONG ALKALIS. VII. FISSION OF UNSATURATED ACIDS BY ALKALI FUSION IN POTASSIUM DEUTERIOXIDE
J. CHEM. SOC. C. P1098 AND P1851, 1971
- 585 72 025 AD MS. BURGESS EM
BENZOTHIADOTE-1,1-DIOXIDES
JACS, 93, 5298, 1971
- 585 72 026 APPEL R LASSMANN E (2) EICHENHOFER KW (3)
1. EINE EINFACHE NITRIL-SYNTHESE. 2. UBER EINE NEUE SYNTHSE DES THIAZYLFLUORIDS. NSF. 3. DARSTELLUNG UND RINGSCHLUSSREAKTIONEN VON N,N'-BIS(DIORGANYLPHOSPHINO)-S,S-DIMETHYLSULFODIIMIDEN
CHEM. BER., 104, 1030, 2246, AND 3859, 1971
- 585 72 027 APPLEQUIST DE SAURBORN EG
REACTION OF PHENYLITHIUM WITH ALLYL CHLORIDE. ADDITION OF PHENYLITHIUM TO LITHIATED CYCLOPROPENES
J. ORG. CHEM., 37, 1676, 1972
- 585 72 028 APSIMON JW HUNTER NR
SCHMIDT REACTION ON CAMPHOR. UNUSUAL FORMATION OF A UREA
TETRAHEDRON LTRS. P187, 1972
- 585 72 029 ARCHER DA
BEHAVIOR OF QUATERNARY SALTS UNDER REDUCED PRESSURE. 2. DECOMPOSITION OF THE N-METHYLAMMONIUM HYDROXIDES OF BENZYL, DIBENZYL, AND DIPHENYLMETHYL AMINES
J. CHEM. SOC. C. P1329, 1971
- 585 72 030 ARINGER L ENEROTH P
SYNTHESIS OF 3BETA-HYDROXY-DELTA5 STEROIDS BY SODIUM BOROHYDRIDE REDUCTION OF DIENOL TRIMETHYLSILYL ETHER DERIVATIVES OF 3-OXO-DELTA4 STEROIDS
STERIODS, 18, 381, 1971
- 585 72 031 ARMAREGO WLF KOBAYASHI T (2)
QUINAZOLINES. 16. A STEREOSPECIFIC CIS ADDITION OF THE ELEMENTS OF NITROMETHANE ACROSS A TETRASUBSTITUTED ETHYLENIC DOUBLE BOND. 18. A SECOND STEREOSPECIFIC CIS ADDITION OF THE ELEMENTS OF NITROMETHANE ACROSS A TETRASUBSTITUTED ETHYLENIC DOUBLE BOND. A CONCERTED MECHANISM FOR THE REACTION OF NITROACETIC ACID WITH ENAMINES
J. CHEM. SOC. C. P1812 AND P3222, 1971
- 585 72 032 ARUNACHA T ANCHEL M NAIR MS
SYNTHESIS OF A HYDROXYXANTHONE DICARBOXYLIC ACID, CASSIAXANTHONE. REACTIONS OF GAMMA-RESORCYCLIC ACID WITH PHENOLS
J. ORG. CHEM., 37, 1262, 1972
- 585 72 033 ASAO T
8-OXOHEPTAFULVENE
JACS, 94, 3655, 1972
- 585 72 034 ASHBY J SUSCHITZKY H
PYROLYSIS OF 2-AZIDOARYL THIOKETONES: A NOVEL ROUTE TO 2,1-BENZISOTHAZOLES
TETRAHEDRON LTRS. P1315, 1971
- 585 72 035 ATAVIN AS MIKHALEV AI VASILEV NP
SOME TRANSFORMATIONS OF ACETOL MERCAPTOLS
IZV. AKAD. NAUK SSSR, SER. KHIM., P564, 1972 IN RUSSIAN
- 585 72 036 ATKINSON DJ
FORMATION AND REARRANGEMENT OF 6,6-DIPHENYLBICYCLO(3,1,0)HEX-2-ENE
J. CHEM. SOC. C. P3247, 1971
- 585 72 037 ATKINSON RS
DEHYDRATION OF 4-HYDROXY-2,3,4-TRIPHENYLCYCLOPENT-2-ENONE
J. CHEM. SOC. C. P3524, 1971
- 585 72 038 ATTA-UR-RAHMAN
REACTIONS OF HARMALINE (4,9-DIHYDRO-7-METHOXY-1-METHYL-3H-PYRIDO(3,4-B)INDOLE) AND ITS DERIVATIVES. 1. REACTIONS OF HARMALINE WITH METHYL ACRYLATE. 2. REINVESTIGATION OF ACETYL-HARMALINE
J. CHEM. SOC., PERKIN TRANS., I, P731 AND P736, 1972
- 585 72 039 AUFDERHAAR E
EXPERIMENTS ON THE SYNTHESIS OF TETRACYCLINE. 3. MICHAEL-TYPE CYCLISATION IN THE FORMATION OF RING-B
J. CHEM. SOC. C. P2175, 1971
- 585 72 040 AUGUSTYN OPH
RETINOL ANALOGUES. 1. SYNTHESIS OF ACYCLIC ANALOGUES OF RETINOIC ACID
J. CHEM. SOC. C. P1878, 1971
- 585 72 041 AUTENRIE VD SCHMID M HARZER K
SYNTHESE VON 8-RIBOFURANOSYL UND 2-RIBOFURANOSYLAMINO-7-OXO-7,8-DIHYDROPTERIDINEN
ANGEW. CHEM., 83, NO. 23, XXX, 1971
- 585 72 042 AVERSA MC
CYCLOADDITION REACTIONS OF CUMULENES. 3. DIKETEN AS AN ALLENELIKE SYSTEM IN THE REACTION WITH AN AZOMETHINE OXIDE
J. CHEM. SOC., PERKIN TRANS., I, P222, 1972
- 585 72 043 BACHL MD
SOME NEW ASPECTS IN THE CHEMISTRY OF 4-ALKYLIDENE-DELTA2-THIAZOLIN-5-ONES
J. CHEM. SOC., PERKIN TRANS., I, P310, 1972
- 585 72 044 BAILEY AS
1. REACTION OF PICRYL AND TOLUENE-P-SULPHONYL AZIDES WITH ALKYLINDOLIZINES. 2. REACTIONS OF TOLUENE-P-SULPHONYL AZIDE WITH 2,3-DIMETHYLINDOLE, 1,2,3-TRIMETHYLINDOLE, TETRAHYDROCARBAZOLE, AND 9-METHYLTETRAHYDROCARBAZOLE. 3. REACTIONS OF ARENESULPHONYL AZIDES WITH SOME DI AND TRI-SUBSTITUTED INDOLES. 4. REACTION OF 1,2,3,4-TETRAHYDRO-2,5-DIMETHYL-5H-PYRIDO(4,3-B)INDOLE WITH ARENESULPHONYL AZIDES
J. CHEM. SOC. C. P1590, P2479, AND P3769, 1971, AND J. CHEM. SOC., PERKIN TRANS., I, P1003, 1972
- 585 72 045 BAILEY DS
METHYL-HALOGEN 1,3 SYN-AXIAL INTERACTION
JACS, 94, 177, 1972

- 585 72 046 BAKER JT DUKE CC
REACTIONS OF ALPHA-CHLOROISATIN (2-CHLOROINDOLEN-1(1H)-ONE) WITH METHANETHIOL AND 1,2-ETHANEDITHIOL
TETRAHEDRON LETS, P307, 1972
- 585 72 047 BALDWIN JE KAPLAN MS (2,3)
1. EXPERIMENTS ON THE SYNTHESIS OF TETRACYCLINE. IV. RING-B FORMATION THROUGH 1,3-DIPOLAR ADDITIONS.
2. A MECHANISTIC ALTERNATIVE FOR THE THERMAL ANTARA-ANTARA COPE REARRANGEMENTS OF BICYCLO(3.2.0)
HEPTA-2,6-DIENES AND BICYCLO(4.2.0)OCTA-2,7-DIENES. 3. THERMAL REARRANGEMENT OF 1,4,4-
TRIMETHYLBICYCLO(3.2.0)HEPTA-2,6-DIENE TO 2,2,6-TRIMETHYLBICYCLO(3.2.0)HEPTA-3,6-DIENE
J. CHEM. SOC. C, P2184, 1971. JACS, 93, 3969, 1971, AND JACS, 94, 668, 1972
- 585 72 048 BANERJI J
AN ABNORMAL FRIEDEL-CRAFTS REACTION: 3,4-DIHYDRO-7-HYDROXY-8-ISOPENTYL-4-PHENYLCOUMARIN AND
7-HYDROXY-8-ISOPENTYLCOUMARIN FROM 7-METHOXY-8-(3-METHYLBUT-2-ENYL) COUMARIN (OSTHOL)
J. CHEM. SOC. C, P3992, 1971
- 585 72 049 BANK S BOCKRATH B
REACTIONS OF AROMATIC RADICAL ANIONS. 6. KINETIC STUDY OF THE REACTION OF SODIUM NAPHTHALENE WITH
WATER (STOPPED FLOW)
JACS, 93, 430, 1971
- 585 72 050 BANTHROP DV WINTER JG
MECHANISM OF BENZIDINE AND SEMIDINE REARRANGEMENTS. 25. THE ACID CATALYZED DISPROPORTIONATION OF
HYDRAZOBENZENES
J. CHEM. SOC., PERKIN TRANS., 11, P868, 1972
- 585 72 051 BARIEUX JJ CORE J
L'HYDROBORATION DES ENAMINES ET SES APPLICATIONS. 3. REDUCTION DES ENAMINES PYRROLIDIINIQUES DES
CETO-3 STEROIDES
TETRAHEDRON, 28, 1537, 1972
- 585 72 052 BARNETT WE KOEBEL RF
BASE CATALYZED CYCLIZATION OF AN OXOALKYL-PYRIMIDINE
TETRAHEDRON LETS, P2867, 1971
- 585 72 053 BAROT NR ELVIDGE JA
HETEROCYCLIC IMINES AND AMINES. 12. IMINO DERIVATIVES OF PIPERAZINE
J. CHEM. SOC., PERKIN TRANS., 1, P1009, 1972
- 585 72 054 BARROETA N MIRALLES A
THERMAL REACTION OF ALKYL ISOCYANATES. 1.
J. ORG. CHEM., 37, 2255, 1972
- 585 72 055 BARTEL K
HYPOIODITE REACTION: THE DECOMPOSITION OF OXALIC ACID HALF-ESTERS
J. CHEM. SOC. C, P3766, 1971
- 585 72 056 BARTON DMR
EXPERIMENTS ON THE SYNTHESIS OF TETRACYCLINE. 5. PHOTOCYCLISATION OF RING-B. 6. OXIDATION AND
REDUCTION OF POTENTIAL RING-A PRECURSORS. 7. THE TOTAL SYNTHESIS OF 6-METHYLPRETETRAMID. 8. AN
ATTEMPTED TOTAL SYNTHESIS OF 4-HYDROXY-6-METHYLPRETETRAMID
J. CHEM. SOC. C, P2193, P2204, P2215, AND P2225, 1971
- 585 72 057 BARTON DMR
EXPERIMENTS ON THE SYNTHESIS OF TETRACYCLINE. 9. THE SYNTHESIS AND REARRANGEMENT OF
6-ACETOXYCYCLOHEXA-2,4-DIENONES. 10. SYNTHESIS OF A TETRACYCLIC COMPOUND SUITABLE FOR (12
A) ALPHA-HYDROXYLATION. 12. EXTENSION OF THE ACETAL PHOTOCYCLISATION PROCESS
J. CHEM. SOC. C, P2231 AND P2241, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P1103, 1972
- 585 72 058 BARTON DMR WILLIS BJ (3)
1. TRANSFORMATIONS OF PENICILLIN. I. PREPARATION AND REARRANGEMENTS OF
6-BETA-PHENYLACETAMIDOPENICILLANIC SULPHOXIDES. 2. SOME STERESELECTIVE AND REGIOSELECTIVE OLEFIN
ADDITIONS: IODOACETOXYLATION AND RELATED ELECTROPHILIC ADDITIONS ACROSS THE 22(23) BOND OF 3-ALPHA
-5-ALPHA-CYCLOERGOSTA-7,22-DIEN-6-ONE. 3. OLEFIN SYNTHESIS BY TWO-FOLD EXTRUSION PROCESSES. I.
PRELIMINARY EXPERIMENTS. 4. A CONVENIENT SYNTHESIS OF 5-FLUOROURACIL
J. CHEM. SOC. C, P3540, 1971. J. CHEM. SOC., PERKIN TRANS., 1, P53 AND P305, 1972, AND J. ORG. CHEM
., 37, 329, 1972
- 585 72 059 BARTON JW GRINHAM AR
1. AROMATIC NITRO-COMPOUNDS. STUDIES OF THE AMINATION OF 9-NITROPHENANTHRENE AND OF THE
MONONITROBIPHENYLENES. 2. POLYCYCLIC BIPHENYLENES. IV. BIPHENYLENES DERIVED FROM 9,10-PHENANTHRYNE
J. CHEM. SOC. C, P1384, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P634, 1972
- 585 72 060 BARTON TJ
1. FACILE BRIDGE EXPULSION OF SULFUR HETEROCYCLES. THE 7-THIA-BICYCLO(2.2.1)HEPTA-2,5-DIENE AND
7-THIA-BICYCLO(4.1.0)HEPTA-2,4-DIENE SYSTEMS IN THIOPIN SYNTHESIS. 2. THERMAL DECOMPOSITION OF 1,4-
DIPHENYL-2,3-BIS-(TRIFLUOROMETHYL)-7-DIMETHYLSILABICYCLO(2.2.1)HEPTADIENE
J. ORG. CHEM., 37, 552, 1972 AND JACS, 94, 6229, 1972
- 585 72 061 BAUTSCH EG
DARSTELLUNG VON PERFLUORCYCLOBUTA(1.2-C:4.3-C')DIPYRIDIN UND PERFLUORCYCLOBUTA(1.2-C:3.4-C')
DIPYRIDIN ALS ISOMERENGEMISCH UBER DIE ZWISCHENSTUFE DES 2,5,6-TRIFLUORPYRIDIN-INS
CHEM. BER., 105, 3463, 1972
- 585 72 062 BASTABLE JW
TRANSANNULAR CYCLISATION OF CYCLOOLEFINIC N-CHLOROAMINES. SYNTHESIS OF AZABICYCLIC COMPOUNDS
J. CHEM. SOC., PERKIN TRANS., 1, P2205, 1972
- 585 72 063 BATES RB
CYCLOREVERSIONS OF ANIONS FROM TETRAHYDROFURANS. A CONVENIENT SYNTHESIS OF LITHIUM ENOLATES OF
ALDEHYDES
J. ORG. CHEM., 37, 560, 1972
- 585 72 064 BATTISTE M MACKIERMAN J
STEREOCHEMISTRY OF CYCLOPROPANE RING OPENING IN THE ACID CATALYZED FRAGMENTATION OF
ENDO-8-TRICYCLO(3.2.1.0(2,4))OCTANONE
TETRAHEDRON LETS, P4095, 1972
- 585 72 065 BAUMANN BC
HEXAMETHYL-2-OXABICYCLO(3.2.0)HEPTA-3,6-DIEN
HELV. CHIM. ACTA, 54, 1589, 1971 IN GERMAN

- 585 72 066 BAUMANN WJ
'PLASMALOGEN-TYPE' CYCLIC ACETALS: FORMATION AND CONFORMATION OF THE 1,3-DIOXANES AND 1,3-DIOXOLANES
FROM 1-O-CIS-ALK-1'-ENYL-SN-GLYCEROLS
J. LIPID RES., 13, 640, 1972
- 585 72 067 BAXENDALE D
STERIOD CONJUGATES. 4. INFLUENCE OF THE CATION IN BOROHYDRIDE REDUCTION OF KETOL SULPHATES
J. CHEM. SOC. C, P2563, 1971
- 585 72 068 BAXTER CS GARRATT PJ
REACTION OF CIS-BICYCLO(6.1.0)NONADIENE WITH DIENOPHILES AND DIENES
TETRAHEDRON, 27, 3285, 1971
- 585 72 069 BAXTER I
1. FORMATION OF SOME LINEAR POLYCYCLIC DIQUINONES VIA A NOVEL DIMERIZATION. 2. REACTIONS OF 2-ETHYL
AND 3-BENZYL-1,4-NAPHTHOQUINONE WITH N-METHYLCYCLOHEXYLAMINE
J. CHEM. SOC. C, P1253, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P2046, 1972
- 585 72 070 BAYER E MULLER HP
SYNTHESE UND KOMPLEXBILDUNG VON HEXAFLUOR-MONOTHIO-ACETYLACETON
TETRAHEDRON LETS, P533, 1971
- 585 72 071 BAYREUTHER H HAAS A
DARSTELLUNG UND EIGENSCHAFTEN VON TRICHLORMETHYLTHIOSULFENYLSOCYANAT
CHEM. BER., 104, 2588, 1971
- 585 72 072 EEM CF
PREPARATION OF PYRAZOLES FROM THE C(ALPHA)NN-TRIANION OF HYDRAZONES HAVING AN ALPHA-HYDROGEN ATOM
J. CHEM. SOC. C, P1658, 1971
- 585 72 073 BECKER J OHLOFF G
EINE NEUARTIGE FRAGMENTIERUNG BICYCLISCHER ENOLATHER. VERFAHREN ZUR DARSTELLUNG MACROCYCLISCHER
LACTONE
HELV. CHIM. ACTA, 54, 2889, 1971
- 585 72 074 BEDDOWS CG WILSON DV
SYNTHESES OF SOME ALPHA-D-RIBOFURANOSYLIMIDAZOLES RELATED TO PURINE NUCLEOTIDE PRECURSORS
J. CHEM. SOC., PERKIN TRANS., I, P1773, 1972
- 585 72 075 BEEBY PJ SONDSHEIMER F
SYNTHESIS OF METHYLENE BRIDGED BIS-DEHYDROAZA(17)ANNULENES, AROMATIC HOMOLOGS OF PYRROLE
JACS, 94, 2128, 1972
- 585 72 076 BEGLAND RW
HYDROGEN CYANIDE CHEMISTRY. 1. DIIMINOSUCCINONITRILE
JACS, 93, 4953, 1971
- 585 72 077 BELLAMY AJ
ONE-STEP SYNTHESIS OF CIS-5,6-DIDEUTERIO-CIS-CYCLOOCTENE AND ITS THERMAL STABILITY TOWARDS
CONCERTED, INTRAMOLECULAR TRANSFER OF HYDROGEN
J. CHEM. SOC., PERKIN TRANS., I, P342, 1972
- 585 72 078 BELSKY I
1. REACTION OF PHOSGENE WITH ENAMINES. 2. REACTION OF PHOSGENE WITH 2,6-DIMETHYL-4H-PYRAN-4-ONE
TETRAHEDRON, 28, 771 AND 1001, 1972
- 585 72 079 BEN-ISHAÏ D GOLDSSTEIN E
REACTIONS OF 5-METHOXYHYDANTOINS WITH CONJUGATED DIENES
TETRAHEDRON, 27, 3119, 1971
- 585 72 080 BENKOVIC SJ SAMPSON EJ
STRUCTURE-REACTIVITY CORRELATION FOR THE HYDROLYSIS OF PHOSPHORAMIDATE MONOANIONS
JACS, 93, 4009, 1971
- 585 72 081 BENNETT RL
ORTHO-METALLATION REACTIONS. 4. REACTIONS OF BENZYLIDENEANILINE AND BENZYLIDENEMETHYLAMINE
J. CHEM. SOC., DALTON TRANS., P1787, 1972
- 585 72 082 BENTLEY KW
NITROSATION OF THEBAINE LEADING TO 7-SUBSTITUTED NERPINONE DERIVATIVES
J. CHEM. SOC., PERKIN TRANS., I, P302, 1972
- 585 72 083 BENTLEY MD
SILVER ASSISTED DISPLACEMENTS ON SULFUR. A NEW THIOL-SULFONATE ESTER SYNTHESIS
J. ORG. CHEM., 37, 333, 1972
- 585 72 084 BERG SS COWLING DT
ACYLATION OF 2,2,6,6-TETRAMETHYLPYPERIDINE AND 2,2,5,5-TETRAMETHYLPYRROLIDINE
J. CHEM. SOC. C, P1653, 1971
- 585 72 085 BERGERHOFF G
EIN NEUER HETEROCYCLUS MIT ZWEI DIREKT VERKNUPFTEN PHOSPHORATCENEN IN VERSCHIEDENER WERTIGKEIT
TETRAHEDRON, 27, 3593, 1971
- 585 72 086 BERGMANN ED AGRANAT I
FULVENES AND THERMOCHROMIC ETHYLENES. 59. REACTION OF DIPHENYLCYCLOPROPENONE WITH CYANOACETIC ACID
J. CHEM. SOC. C, P1541, 1971
- 585 72 087 BERINGER FM MESSINGS (2)
1. SYNTHESIS, STRUCTURE, AND REACTIONS OF A BENZIODOLIUM CATION. 2. ELECTROREDUCTION OF
DIPHENYLIODONIUM, DIBENZIODOLIUM, AND 4,5-PHENANTHRYLENIODONIUM IONS
J. ORG. CHEM., 37, 879 AND 2484, 1972
- 585 72 088 BERNHARD HD SNIIEKUS V
REACTION OF DIAZOMETHANE WITH 2-METHYL-6,7-METHYLENEDIOXY-3,4-DIHYDRO-ISOQUINOLINIUM PERCHLORATE.
RING EXPANSION TO 3-BENZAZEPINE AND 3-BENZAZOCINE DERIVATIVES
TETRAHEDRON, 27, 2091, 1971
- 585 72 089 BERRY D SMITH OCC
2H-NAPHTHO(1,8-BC)FURAN AND 8-HYDROXY-1-NAPHTHALDEHYDE
J. CHEM. SOC., PERKIN TRANS., I, P699, 1972

- 585 72 090 BERTI G
BORON TRIFLUORIDE CATALYZED REARRANGEMENTS OF SOME TETRASUBSTITUTED NEOTRITERPENE EPOXIDES. 1. 2.
HOPENE-II OXIDE AND ITS ANALOGUE IN THE A:B-NEDALLOBETULIN SERIES
TETRAHEDRON, 27, 2143 AND 2217, 1971
- 585 72 091 BHALERAO UT RAPOPORT H
STEREOCHEMISTRY OF ALLYLIC OXIDATION WITH SELENIUM DIOXIDE. STEREOSPECIFIC OXIDATION OF GEM-DIMETHYL
OLEFINS
JACS, 93, 4835, 1971
- 585 72 092 BILINSKI V DREIDING AS
REAKTIONSWEISE VON ENAMINEN MIT CYCLOPROPENONEN. 3. ISOLIERUNG EINES PRODUKTES DER 'C,C-INSERTION'
HELV. CHIM. ACTA, 55, 1271, 1972
- 585 72 093 BIDLIAZ M KALVODA J
REAKTIONEN VON STERIOD HYPOJODITEN. 10. FRAGMENTIERUNG VON 20-HYDROXY STEROIDEN (17-JOD-ANDROSTANE)
HELV. CHIM. ACTA, 55, 366, 1972
- 585 72 094 BIRCH AJ HUTCHINSON EG (2)
1. REDUCTION BY DISSOLVING METALS. XVII. METAL-AMMONIA REDUCTIONS OF SOME CONJUGATED DIENAMINES. 2.
REACTIONS OF CYCLOHEXADIENES. XII. SOME DIENAMINES AND DIMETHYL ACETYLENEDICARBOXYLATE
J. CHEM. SOC. C, P2409 AND P3671, 1971
- 585 72 095 BISHOP MJ
COMPOUNDS RELATED TO ARECOLINE. 1. SYNTHESIS OF 5-ETHOXYCARBONYL-1,2-DIMETHYL-1,2,3,6-
TETRAHYDROPYRIDINE
Z. NATURFORSCH., 25D, 1249, 1970
- 585 72 096 BJORKHEM I HAMBERG M
ON RATE LIMITING STEP IN OMEGA-HYDROXYLATION OF LAURIC ACID
BIOCHEM. BIOPHYS. RES. COMMUN., 47, 333, 1972
- 585 72 097 BLAIR JA TATE CJ (1) GARDNER RJ (2)
1. REACTION OF CYCLOHEPTATRIENE WITH ACYL HALIDES IN THE PRESENCE OF LEWIS ACIDS. A CONVENIENT
SYNTHESIS OF 1-ACYLCYCLOHEPTATRIENES. 2. NOVEL SYNTHESIS OF A DIAZIRIDINE
J. CHEM. SOC. C, P1592, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P485, 1972
- 585 72 098 BLANCH JH FRETHERM K
FORMATION OF 2-METHYLAMINOPYRIDINE-3-CARBALDEHYDE AND THE CORRESPONDING METHYLIMINE BY RING-OPENING
AND RING-CLOSING REACTIONS OF 3-CYANO-1-METHYLPYRIDINIUM IODIDE IN N-SODIUM HYDROXIDE
J. CHEM. SOC. C, P1092, 1972
- 585 72 099 BLICH M
(5)-(3,3'-(1,2)BIMESITYL
CHEM. BER., 105, 1790, 1972
- 585 72 100 BLOCK E
THE CHEMISTRY OF ALKYL THIOSULFINATE ESTERS. 2. SULFENIC ACIDS FROM DIALKYL THIOSULFINATE ESTERS. 3.
TERT-BUTANETHIOSULFOXYLIC ACID
JACS, 94, 642 AND 644, 1972
- 585 72 101 BOAR RB
EPOXIDES OF LANOSTEROL AND SOME RELATED COMPOUNDS
J. CHEM. SOC., PERKIN TRANS., 1, P2231, 1972
- 585 72 102 BOBBITT JM NOGUCHI I YAGI H

ELECTROCHEMISTRY OF NATURAL PRODUCTS. 3. A STERESELECTIVE, STEREOSPECIFIC PHENOL COUPLING REACTION
JACS, 93, 3351, 1971
- 585 72 103 BOCHKOV AF SOKOLOVS TA KOCHETKOV NK
SYNTHESIS OF POLYSACCHARIDES. 4. SYNTHESIS OF BRANCHED GLUCANS FROM CELLULOSE
ZH. OBSHCH. KHIM., 41, 2761, 1971 IN RUSSIAN
- 585 72 104 BOCK H WAGNER G
'EINSAME' ELEKTROENPAARE IN ORGANISCHEN SULFIDEN UND DISULFIDEN. ('ELECTRON LONE PAIRS' IN ORGANIC
SULFIDES AND DISULFIDES)
ANGEW. CHEM., 84, 119, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 150, 1972
- 585 72 105 BODENBERGER A DANNENBERG M
DEHYDRIERUNG VON OSTROGENEN UND 3-ACETAMINOOSTRATRIEN(1,3,5,(10))-OL-17BETA MIT 2,3-DICHLOR-5,6-
DICYANBENZON (DDC)
CHEM. BER., 104, 2389, 1971
- 585 72 106 BONNET M WINTERNI F
CHIMIE ORGANIQUE. SYNTHESE DE L'ACETYL-3-METHYL-2-CYCLOHEXENE-2-ONE
COMPT. REND., SER. C, 274, 1469, 1972
- 585 72 107 BODANS RE CRAM DJ
STEREOCHEMISTRY OF SULFUR COMPOUNDS. 3. RADICAL-CHAIN MECHANISM FOR RACEMIZATION OF SULFINAMIDES
JACS, 94, 5438, 1972
- 585 72 108 BORCH RF
1. REACTION OF ACYL CYANIDES WITH GRIGNARD REAGENTS. 2. NEW SYNTHESIS OF SUBSTITUTED
2(1H)-PYRIDONES. SYNTHESIS OF A POTENTIAL CAMPTOTHECIN INTERMEDIATE
J. ORG. CHEM., 37, 726 AND 1141, 1972
- 585 72 109 BOROWITZ IJ
1. SYNTHESIS OF 2-METHYL-7-KETOUDDECANOLIDE, 8-KETOUDDECANOLIDE, AND 2,4,6-
TRIMETHYL-7-KETOUDDECANOLIDE. 2. ON THE KINETICS AND MECHANISM OF THE PERKOW REACTION
J. ORG. CHEM., 37, 581, 1972 AND JACS, 94, 1623, 1972
- 585 72 110 BOSE AK
HETEROCYCLIC COMPOUNDS. 6. SOME PHENANTHRIDINE DERIVATIVES VIA ENAMINES
TETRAHEDRON, 28, 2931, 1972
- 585 72 111 BOSWELL GA
SYNTHESIS OF 6,6-DIFLUORODRIFTHINDRONE
J. ORG. CHEM., 36, 575, 1971

- 585 72 112 BOTTEGHI C
CONVENIENT SYNTHETIC APPROACH TO 3- AND 4-ALKYL-2,3-DIHYDROFURANS
J. ORG. CHEM., 37, 1835, 1972
- 585 72 113 BOTTIN J FETIZON M
HYDROBORATION SELECTIVE DE DELTA(20)(21) STEROIDES
BULL. SOC. CHIM. FRANCE, P2344, 1972 IN FRENCH
- 585 72 114 BOWIE RA THOMASON DA
RING TRANSFORMATIONS INVOLVING CHLOROMETEROCYCLES. 3. REACTION OF 4-CHLOROQUINAZOLINES WITH
HYDRAZINES
J. CHEM. SOC., PERKIN TRANS., I, P1842, 1972
- 585 72 115 BOYD GV DANDO SR
DIMERISATION OF 5-METHYLENE-DELTA2-1,3,4-OXADIAZOLINES
J. CHEM. SOC. C, P2314, 1971
- 585 72 116 BOYER JH RAMAKRISHNAN VT
SULFURIZATION OF ISOCYANIDES
J. ORG. CHEM., 37, 1360, 1972
- 585 72 117 BOYLE PH
CHEMISTRY OF TERPENES. 13. SYNTHESIS OF (+)-3BETA,7,7-TRIMETHYL-ANTI-CIS-ANTI-TRICYCLO(4,1,0,0(2,4))
HEPTANE AND (+OR-)-TRANS-3-(1-HYDROXYMETHYL)-6,6-DIMETHYLBICYCLO(3,1,0)HEXANE. DEAMINATION
PRODUCTS OF THE CIS-CARAN-4-AMINES
J. CHEM. SOC. C, P2127, 1971
- 585 72 118 BRADBURY S
REACTIVE INTERMEDIATES. 16. DIHYDROBENZ(CD)INDAZOLES AND ATTEMPTED ROUTES TO BENZ(CD)INDAZOLE. 17.
CONVERSION OF PERI-SUBSTITUTED AZIONAPHTHALENES INTO NAPHTHOXAZOLES. 1,2-DIHYDROBENZ(CD)INDAZOLES
AND PERIMIDINES
J. CHEM. SOC., PERKIN TRANS., I, P68 AND P72, 1972
- 585 72 119 BRADLEY E
REACTION BETWEEN 2,2-DIARYLCHROMENS AND 1,1-DIARYLETHYLENES
J. CHEM. SOC. C, P3028, 1971
- 585 72 120 BRADY WT DORSEY ED
MECHANISM OF DIPHENYLKETENE CYCLOADDITION TO A CARBODIIMIDE
J. ORG. CHEM., 35, 2732, 1970
- 585 72 121 BRAM A EUGSTER CH
EINE NEUE SYNTHESE VON METHOXYLIERTEN MESO-BENZANTHRONEN: ABBAU ZU 5,8-
DIHYDROXYANTHRACHINON-1-CARBOXSÄURE UND 5,7,8-TRIHYDROXYANTHRACHINON-1-CARBOXSÄURE
HELV. CHIM. ACTA, 55, 974, 1972
- 585 72 122 BRANWELL AF
NUCLEAR ALKYLATION OF PYRAZINES BY KETONES AND ALDEHYDES
J. CHEM. SOC. C, P1627, 1971
- 585 72 123 BRAVO P
TRISUBSTITUTED CYCLOPROPANES FROM THE REACTION OF STABLE SULPHONIUM YLIDES WITH ALPHA-HALOCARBONYL
COMPOUNDS
TETRAHEDRON, 27, 3563, 1971
- 585 72 124 BRESLOW R SCHOLL PG (1) KILICKY P (2)
1. SELECTIVE OXIDATION OF UNACTIVATED METHYLENE GROUPS BY REAGENT-SUBSTRATE ORIENTATION IN MIXED
COMPLEXES. 2. REMOTE OXIDATION OF STEROIDS BY REAGENTS ATTACHED TO RING-D. INTRODUCTION OF A 9(11)
DOUBLE BOND
JACS, 93, 2331 AND 3540, 1971
- 585 72 125 BREWER JD ELIX JA
ANNELATED FURANS. 7. SYNTHETIC ROUTES TO DI-O-METHYLSTREPSILIN
AUSTRALIAN J. CHEM., 25, 545, 1972
- 585 72 126 BROADHURST MJ
1. SYNTHESIS OF PORPHIN ANALOGUES CONTAINING FURAN AND/OR THIOPHEN RINGS. 2. PROTONATION,
ALKYLATION, AND ACETYLATION OF CORROLES AND 21,24-DIOXACORROLES. 3. SULPHUR EXTRUSION REACTIONS
APPLIED TO SYNTHESIS OF CORROLES AND RELATED SYSTEMS
J. CHEM. SOC. C, P3681, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P143 AND P1124, 1972
- 585 72 127 BROCKMANN H SEELA F (2)
1. DIMERISIERUNG UND CYCLO-TRIMERISIERUNG VON NAPHTHAZARIN UND 5,6,7,8-TETRAHYDROCHINIZANIN. 2. 4,6-
DIOXETHYLACTINOMYCIN-C(1) UND DESSEN 4,6-DIMETHOXY, 4,6-DIÄTHYL, UND 4,6-DI-TERTBUTYL DERIVAT
CHEM. BER., 104, 1436 AND 2751, 1971
- 585 72 128 BROOK PR DUKE AJ
RING-OPENING REACTIONS OF 7,7-DICHLOROBICYCLO(3,2,0)HEPT-2-EN-6-ONE AND ITS CONVERSION INTO
METHYLBENZOATE WITH METHOXIDE ION
J. CHEM. SOC. C, P1764, 1971
- 585 72 129 BROOKE GM
PARTIALLY FLUORINATED HETEROCYCLIC COMPOUNDS. 9. SYNTHESIS OF 4,5,6,7-TETRAFLUOROBENZO(B)FURAN AND
4,5,6,7-TETRAFLUORO-2-PHENYLBENZO(B)FURAN BY A NEW CYCLISATION REACTION, AND THE ATTEMPTED
SYNTHESIS OF RELATED COMPOUNDS BY CONVENTIONAL METHODS
J. CHEM. SOC. C, P3596, 1971
- 585 72 130 BROOKS R BUNTON CA
ALUMINUM CHLORIDE CATALYZED REACTION BETWEEN T-BUTYLBENZENE AND PHOSPHORUS TRICHLORIDE
J. ORG. CHEM., 35, 2642, 1970
- 585 72 131 BROSER W BOLLERT U
REAKTION VON ALPHA-BENZOYL-BENZYL-CYANID MIT 1,1-DISUBSTITUIERTEN HYDRAZINEN
CHEM. BER., 104, 2053, 1971
- 585 72 132 BROUWER WG
REACTION BETWEEN ISATIN AND SOME AMINES
J. CHEM. SOC., PERKIN TRANS., I, P124, 1972

- 585 72 133 BROWN DJ ENGLAND BT (1) SUGIMOTO T (2) HOSKINS JA (3)
1. DIMROTH REARRANGEMENT. XIV. PREPARATION AND REARRANGEMENT OF 1,6-DIHYDRO-6-IMINO-1-METHYLPYRIMIDINE. 2. AZA-ANALOGUES OF PTERIDINE. IV. TRANSFORMATION OF 7-CHLORO-1,2-DIHYDRO INTO 5,7-DISUBSTITUTED-PYRIMID(5,4-E)-AS-TRIAZINES VIA 5,6-ADDUCTS. 3. SIMPLE PYRIMIDINES. XIV. FORMATION AND REACTIONS OF SOME DERIVATIVES OF SIMPLE PYRIMIDINESULPHONIC ACIDS
J. CHEM. SOC. C. P2507 AND 2616, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P522, 1972
- 585 72 134 BROWN DW
1. CHEMISTRY OF INDANONES. 1. RING CLOSURE OF 2-(4-METHOXYPHENYL)-3-(3-METHOXYPHENYL)PROPIONIC ACID. 2. ASPECTS OF ISOCOUMARIN CHEMISTRY. 1. SYNTHESIS OF BERBINE DERIVATIVES
J. CHEM. SOC. C. P3195 AND P3219, 1971
- 585 72 135 BROWN EV PLASZ AC
MEISENHEIMER REACTION IN THE 1,5-NAPHTHYRIDINE SERIES. 2.
J. ORG. CHEM., 36, 1331, 1971
- 585 72 136 BROWN JP METH-COHN O
REACTIONS OF 2,2-DIALKYL-1,2-DIHYDROQUINOLINES. 6. FURTHER BROMINATION STUDIES
J. CHEM. SOC. C. P3631, 1971
- 585 72 137 BROWN PJN
POLYFLUOROCYCLO(2,2,1)HEPTANES. 5. SYNTHESIS USING BRIDGEHEAD CARBANIONS GENERATED BY REMOVAL OF BRIDGEHEAD HYDROGEN WITH AQUEOUS BASES
J. CHEM. SOC., PERKIN TRANS., I, P937, 1972
- 585 72 138 BROWN RFC RITCHIE PJA
THERMAL ELIMINATION OF FORMALDEHYDE FROM 5-SUBSTITUTED 3,4-DIHYDRO-4-METHOXY-3-OXO-2H-1,4-BENZOXAZINES
AUSTRALIAN J. CHEM., 23, 2525, 1970
- 585 72 139 BROWN W TURNER AB
APPLICATIONS OF HIGH POTENTIAL QUINONES. 6. STEREOELECTRONIC EFFECTS IN THE DEHYDROGENATION OF MEQEROSTEROIDS. 7. SYNTHESIS OF STEROIDAL PHENANTHRENES BY DOUBLE METHYL MIGRATION
J. CHEM. SOC. C. P2057 AND P2566, 1971
- 585 72 140 BRUCKNER NI BAULD NL
SYNTHESIS OF 2,2,5-TRIMETHYL-6-HYDROXY-2H-NAPHTHO(1,2-B)PYRAN AND 2-(GAMMA, GAMMA-DIMETHYLLALLYL)NAPHTHOPYRANS AND THE VITAMIN-K1 SERIES
J. ORG. CHEM., 37, 2359, 1972
- 585 72 141 BUCHANAN GL JAMIESON G
BREDT'S RULE. 1. STRAIN IN A BRIDGEHEAD OLEFIN. 2. SYNTHESIS AND PROPERTIES OF TWO RELATED BRIDGEHEAD ENONES
TETRAHEDRON, 28, 1123 AND 1129, 1972
- 585 72 142 BUCHI G VEDERAS JC
INTERCHANGE OF FUNCTIONALITY IN CONJUGATED CARBONYL COMPOUNDS THROUGH ISOXAZOLES
JACS, 94, 0128, 1972
- 585 72 143 BULL JR
STEROIDAL ANALOGUES OF UNNATURAL CONFIGURATION. 3. REACTIONS OF THE DELTA5 BOND IN 4,4,14-ALPHA-TRIMETHYL-19-NOR-10ALPHA-PREGN-5-ENE DERIVATIVES
J. CHEM. SOC. C. P3929, 1971
- 585 72 144 BUNGE K HUISGEN R (1) RAAB R (1)

1. 1,3-DIPOLARE CYCLOADDITIONEN. LXIII. ANLAGERUNG AROMATISCHER NITRIL-YLIDE AN CARBONYLVERBINDUNGEN. 2. WEITERE UMSETZUNGEN VON NITRIL-YLIDEN MIT HETERO-MEHRFACH-BINDUNGEN
CHEM. BER., 105, 1279 AND 1307, 1972
- 585 72 145 BUNTING JW MEATHREL WG
QUATERNIZATION OF QUINAZOLINE WITH METHYL IODIDE
CAN. J. CHEM., 48, 3449, 1970
- 585 72 146 DURAKVICHI JV
PHENYL FURAZAN OXIDE. CHEMISTRY
J. ORG. CHEM., 37, 593, 1972
- 585 72 147 DURATTI W
NUCLEOPHILIC CHARACTER OF ALLYL RADICALS. SELECTIVE HOMOLYTIC ALPHA-ALKYLATION OF HETEROAROMATIC BASES
TETRAHEDRON, 27, 3655, 1971
- 585 72 148 BURKINSHAW GP
SYNTHESIS AND ACID CATALYSED REARRANGEMENTS OF 4-HYDROXYCYCLOHEXA-2,5-DIENONES
J. CHEM. SOC. C. P3002, 1971
- 585 72 149 BUTTNER G
REAKTION MIT HYDROXYL IONEN ZU CIS-ALPHA-HYDROXY-DIALKYLDIAZENEN UND DEREN FOLGE PRODUKTEN
CHEM. BER., 104, 1118, 1971
- 585 72 150 BUU-HOI NP
CARCINOGENIC NITROGEN COMPOUNDS. 71. ACRIDINES FROM 5-AMINO BENZO(B)SELENOPHEN. 73. CYCLISATION OF 12-(O-CHLOROARYL)BENZ(A)ACRIDINES: A ROUTE TO NEW CONDENSED ACRIDINES DERIVED FROM NAPHTHO(2,1,8-DEF)QUINOLINE (1-AZAPYRENE). 80. (1)BENZOPYRANO(4,3-B)INDOLES AND 6H-(1)BENZOPYRANO(4,3-B)QUINOLINES
J. CHEM. SOC. C. P2308, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P234 AND P1266, 1972
- 585 72 151 BYRNE E SHAW SJ
REDUCTION PRODUCTS FROM CIS AND TRANS-ISOCOMULONE
J. CHEM. SOC. C. P2810, 1971
- 585 72 152 CADOGAN JIG KULIK S
REDUCTION OF NITRO AND NITROSO COMPOUNDS BY TERVALENT PHOSPHORUS REAGENTS. 9. 'BLOCKED CRYPTO' EFFECT IN REACTIONS OF 2,6-DISUBSTITUTED ARYL 2-NITROPHENYL AND ARYL 2-AZIDOPHENYL SULPHIDES: NEW SERIES OF NITRENE INDUCED AROMATIC REARRANGEMENTS
J. CHEM. SOC. C. P2621, 1971
- 585 72 153 CALLOT HJ BENEZRA C
BICYCLO(2,2,1)HAPTYPHOSPHONATES. 2. STEREOCHEMISTRY OF THE DIELS-ALDER ADDITION OF METHYL VINYLPHOSPHONATE ON SOME CYCLOPENTADIENES: NMR STUDY
CAN. J. CHEM., 48, 3382, 1970

- 585 72 154 CALTON GJ
STUDIES ON A GIBBERELLIN SYNTHESIS
THESIS, TEXAS A AND M UNIV., COLLEGE STATION, UNIV. MICROFILMS ORDER NO. 72-13,206. DISS. ABS., 328,
10. 5684, 1972
- 585 72 155 CAMA LD
SUBSTITUTED PENICILLIN AND CEPHALOSPORIN DERIVATIVES. 1. STEREOSPECIFIC INTRODUCTION OF THE C-6(7)
METHOXY GROUP
JACS, 94, 1408, 1972
- 585 72 156 CAMAGGI G
SYNTHESIS OF 1-IODO AND 1,2-DIIODOPERFLUOROCYCLO OLEFINS AND REDUCTIVE COUPLING OF THE LATTER IN THE
PRESENCE OF COPPER BRONZES
J. CHEM. SOC. C, P2382, 1971
- 585 72 157 CANNON JR
BROMINATION OF SOME DERIVATIVES OF RESORCINOL
J. CHEM. SOC. C, P3495, 1971
- 585 72 158 CAPUANO L
BILDUNG VON BENZOXAZINEN UND BENZOTHAZINEN DURCH BASENKATALYSIERTEN O-S-AUSTAUSCH
CHEM. BER., 105, 3055, 1972
- 585 72 159 CARDILLO G
WITTIG REACTION ON ORTHO-QUINONES: NEW SYNTHESIS OF 2,2-DIMETHYLCHROMENES VIA QUINONEMETHIDES
ANN. CHIM. (ROME), 60, 564, 1970
- 585 72 160 CARMICHAEL PJ
MECHANISM OF THE REACTION OF NITROGEN DIOXIDE WITH 2-METHYL-2-NITROSOPROPANE
J. CHEM. SOC., PERKIN TRANS., II, P1379, 1972
- 585 72 161 CARONNA T
1. HOMOLYTIC ACYLATION OF BENZOTHAZOLE. A DIAGNOSTIC CRITERION FOR THE PRESENCE OF ACYL RADICALS.
2. NUCLEOPHILIC CHARACTER OF ACYL RADICALS, SUBSTITUENT EFFECTS ON THE HOMOLYTIC ACYLATION OF
PROTONATED HETEROAROMATIC BASES
J. CHEM. SOC. C, P1747, 1971 AND J. CHEM. SOC., PERKIN TRANS., II, P1477, 1972
- 585 72 162 CARPENTER BK
SYNTHESIS OF 3(2H)FURANONES
JACS, 94, 6213, 1972
- 585 72 163 CARRINGTON DEL
1,2-BENZISOTHAZOLES. 1. REACTION OF 3-CHLORO-1,2-BENZISOTHAZOLE WITH NUCLEOPHILES
J. CHEM. SOC. C, P3262, 1971
- 585 72 164 CARRUTHERS W PELLATT HG
THIACYCLOHEPTADEC-3,8,10,15-TETRAYNE AND THIACYCLOHEPTADEC-2,8,10,16-TETRAYNE-4,15-DIOL. ATTEMPTED
SYNTHESIS OF THIA(17)ANNULENE
J. CHEM. SOC. C, 1485, 1971
- 585 72 165 CASIRAGHI G
A NEW 2-PHENYL-4H-1-BENZOPYRAN (FLAV-2-ENE) SYNTHESIS
J. CHEM. SOC. C, P2546, 1971
- 585 72 166 CASON J
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J. ORG. CHEM., 37, 2573, 1972
- 585 72 167 CAVA MP HARAGIMIAN K (1) SPRECKER MA (2)
1. AROMATIZATION OF SOME CYCLOPROPENE ADDUCTS. AN APPROACH TO THE NAPHTHO(B)CYCLOPROPENE SYSTEM. 2.
THIEND(3,4-C)FURAN AND THIEND(3,4-C)PYRROLE SYSTEMS. UNUSUAL NONCLASSICAL HETEROCYCLES
J. ORG. CHEM., 36, 1419, 1971 AND JACS, 94, 6214, 1972
- 585 72 168 CEDER O ANDERSSON JE (1,2) JOHANSSON L (2) WITTE JF (3) BEIJER B (4)
1. SYNTHESIS OF 1,3,6-TRIAZACYCL(3,3,3)AZINES. 2. ELECTROPHILIC BROMINATION STUDIES ON
4-CYANO-2-METHYL-1,3,6-TRIAZACYCL(3,3,3)AZINE. 3. SYNTHESIS OF A 1,3,6,7-TETRAAZACYCL(3,3,3)AZINE.
4. SUBSTITUTION REACTIONS ON PYRROLO(2,1-B)THIAZOLES
ACTA CHEM. SCAND., 26, 596, 624, AND 635, 1972 AND TETRAEDRON, 28, 4341, 1972
- 585 72 169 CHABY R SZABO L
SYNTHÈSE DU DESOXY-1 D-ERYTHRITOL ET DU DESOXY-1 D-THREITOL
TETRAEDRON, 27, 3197, 1971
- 585 72 170 CHAKRABORTY PA
SYNTHETIC STUDIES TOWARDS COMPLEX DITERPENOID. 6. NEW SYNTHETIC ROUTES TO TETRACYCLIC
BRIDGED-BICYCLO(3,2,1)OCTANE INTERMEDIATES BY INTRAMOLECULAR ALKYLATION REACTIONS THROUGH
ALPHA-DIAZOMETHYL KETONES OF HYDROAROMATIC GAMMA,DELTA-UNSATURATED ACIDS
TETRAEDRON, 28, 4653, 1972
- 585 72 171 CHANDRASENAN K THOMSON RH
BIQUINONES. 3. DIMERISATION OF 1,4-NAPHTHAQUINONES
TETRAEDRON, 27, 2529, 1971
- 585 72 172 CHAPMAN DD
SYNTHESIS OF SOME QUINOXALINE RING SYSTEMS
J. ORG. CHEM., 37, 2498, 1972
- 585 72 173 CHAPMAN NB
SOME REACTIONS OF 7-CHLORO-3-METHYLBENZO(B)THIOPHEN
J. CHEM. SOC., PERKIN TRANS., I, P1404, 1972
- 585 72 174 CHEN F AINSWORTH C
METAL REDUCTION OF MALONATES. FORMATION AND ISOLATION OF 3,3-DIMETHYL-CIS-1,2-CYCLOPROPANEDIOL
JACS, 94, 4037, 1972
- 585 72 175 CHEN L ISSENBER P
INTERACTIONS OF SOME WOOD SMOKE COMPONENTS WITH EPSILON-AMINO GROUPS IN PROTEINS
J. AGR. FOOD CHEM., 20, 1113, 1972

3

- 585 72 176 CHIVERS GE SUSCHITZKY M
POLYHALOGENOAROMATIC COMPOUNDS. 21. A NOVEL REAGENT SYSTEM FOR THE N-OXIDATION OF WEAKLY BASIC
N-HETEROAROMATIC COMPOUNDS
J. CHEM. SOC. C. P2867, 1971
- 585 72 177 CHMIELEW M JURCZAK J ZAMOJSKI A
DERIVATIVES OF 2-ALKOXY-5,6-DIHYDRO-ALPHA-PYRAN AS SUBSTRATES IN SYNTHESIS OF MONOSACCHARIDES. 10.
STEREOCHEMISTRY OF ADDITION OF ACETIC ACID TO 6-ACETOXYMETHYL-2-METHOXY-5,6-DIHYDRO-ALPHA-PYRAN
ROCCZ. CHEM., 46, 627, 1972
- 585 72 178 CHOW YL PERRY RA
INTRAMOLECULAR REACTIONS OF AMIDO RADICAL
TETRAHEDRON LTRS. P531, 1972
- 585 72 179 CHUNG RH
1-ISOPROPYL-4-METHYLENEBICYCLO(3.1.0)HEX-2-ENE. SYNTHESIS AND REACTIONS
JACS. 94, 2183, 1972
- 585 72 180 CIABATTONI J KOCIENSKI JP
PEROXY ACID OXIDATION OF HINDERED CYCLOPROPENES. EVIDENCE FOR A DUAL PATHWAY
JACS. 93, 4902, 1971
- 585 72 181 CLAR E MCANDREW BA
2,3:4,5:8,9:10,11-TETRABENZOPERYLENE AND 1,2:3,4:7,8:9,10-TETRABENZOCORONENE
TETRAHEDRON, 28, 1137, 1972
- 585 72 182 CLARK J RAMSOEN T (1) SMITH C (2) YATES FS (3)
HETEROCYCLIC STUDIES. (1) XVIII. SOME 6,7-DIAMINOIMIDAZO(1,2-A)PYRIMIDINES AND DERIVED TRICYCLIC
COMPOUNDS. (2) XX. THE ACTION OF HYDRAZINE ON SOME 1,3-DIMETHYL LUMAZINES. (3) XXI. SYNTHESIS AND
COVALENT HYDRATION OF SOME 2-SUBSTITUTED 4-TRIFLUOROMETHYLPYRIMIDINES
J. CHEM. SOC. C. P1942, P1948, AND P2278, 1971
- 585 72 183 CLARKE FB WESTHEIMER FH
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JACS. 93, 4541, 1971
- 585 72 184 CLIFF GR JONES G (1)
AZONIA-AZULENE SALTS. (1) III. THERMAL DECOMPOSITION OF O-BENZYLPHENYL AZIDES TO GIVE
AZEPYRINDOLES. (2) IV. ATTEMPTS TO CONVERT DIHYDROINDOLIZINES INTO AZONIA-AZULENES
J. CHEM. SOC. C. P3418 AND P3426, 1971
- 585 72 185 CLINGING R DEAN FM
C-ALKYLATION BY 3-DIAZOPROPENE, AND THE FUNCTION OF DIAZOALKANES AS NITROGEN BASES
J. CHEM. SOC. C. 3668, 1971
- 585 72 186 COATES RM JOHNSON EF
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JACS. 93, 4016, 1971
- 585 72 187 COCKER W
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J. CHEM. SOC. C. P1708, 1971
- 585 72 188 COCKERILL AF
ANTIPARASITIC NITROIMIDAZOLES. 11. DECOMPOSITION OF 5-NITRO-2-(4-TRANS-STYRYL)-1-VINYLMIDAZOLES BY
SODIUM HYDROXIDE
J. CHEM. SOC., PERKIN TRANS., II, 1428, 1972
- 585 72 189 COE PL UFF AJ
AROMATIC POLYFLUOROCOMPOUNDS. 52. THERMAL DECOMPOSITION OF 1,2,3,4-TETRAFLUORO-5,6-DIHYDRO-5,8-(
N-METHYLIMINO)NAPHTHALENE
TETRAHEDRON, 27, 4065, 1971
- 585 72 190 COFFEN DL
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JACS. 93, 4627, 1971
- 585 72 191 COHEN T DEETS GL (1,3) GRAY WF (2)
1. REACTION OF PYRIDINE N-OXIDE WITH ACETIC ANHYDRIDE IN ANISOLE AND IN BENZONITRILE. 2. RAPID AMIDE
CLEAVAGE ASSISTED BY A NEIGHBORING HYDROXYLAMINE FUNCTION. 3. TRAPPING OF PICOLYL CATIONS IN
REACTIONS OF 2 AND 4-PICOLINE N-OXIDE WITH ACETIC ANHYDRIDE
J. ORG. CHEM., 37, 55 AND 741, 1972 AND JACS. 94, 932, 1972
- 585 72 192 COLLIN PJ
FORMATION OF PHOTODIMERS FROM DIMETHYL NAPHTHALENE-1,8-DICARBOXYLATE AND METHYL
NAPHTHALENE-2-CARBOXYLATE
TETRAHEDRON LTRS. P321, 1972
- 585 72 193 COMRIE AM
3,4,5-TRIPHENYLPYRAZOLES
J. CHEM. SOC. C. P2807, 1971
- 585 72 194 CONIA JM DENIS JM
CYCLOBUTANE-1,2-DIONE. RING CONTRACTION BY WATER
TETRAHEDRON LTRS. P2845, 1971
- 585 72 195 COOKSON RC SINGH P
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J. CHEM. SOC. C. P1477, 1971
- 585 72 196 COOPER GH RICKARD RL
SYNTHESIS OF 5-ACETAMIDO-2-ACETYLPIPERIDINE
J. CHEM. SOC. C. P772, 1971
- 585 72 197 COOPER J SCROWSTON RM
SUBSTITUTION REACTIONS OF BENZO(B)THIOPHEN DERIVATIVES. 2. NITRATION AND BROMINATION OF
2-BROMO-3-METHYLBENZO(B)THIOPHEN. 4. NITRATION OF 3-BROMO-2-METHYLBENZO(B)THIOPHEN AND 2,3-
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J. CHEM. SOC. C. P3052, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P265, 1972

- 585 72 198 COOPER RM
ACETOLYSIS OF 2-(2,3-DIHYDRO-1H-CYCLOPENTA(1)PHENANTHREN-2-YL)ETHYL DERIVATIVES: PARTICIPATION BY THE 9,10 BOND OF PHENANTHRENE TO GIVE AN ANALOGUE OF A CLASSICAL NORBORNYL CATION
J. CHEM. SOC., PERKIN TRANS., 11, P594, 1972
- 585 72 199 COREY EJ KUMAJIMA I (3)
1. A NEW SYNTHESIS OF ALPHA,BETA-UNSATURATED ALDEHYDES USING 1,3-BIS(METHYLTHIO)ALLYLLITHIUM. 2. SYNTHESIS OF RACEMIC ALPHA-TRANS- AND BETA-TRANS-BERGAMOTENE. 3. ONE-STEP SYNTHESIS OF GAMMA, DELTA-UNSATURATED NITRILES FROM ALLYLIC HALIDES USING CYANOMETHYLCOPPER
JACS, 93, 1724 AND 7016, 1971 AND TETRAHEDRON LTRS, P487, 1972
- 585 72 200 CORSON FP PEWS RG
REACTIONS OF P-TOLUENESULFONYL CHLORIDE AND P-TOLUENESULFONYL CYANIDE WITH SODIUM CYANIDE AND WITH SODIUM P-TOLUENESULFINATE
J. ORG. CHEM., 36, 1654, 1971
- 585 72 201 CORT LA
HALOGENO-1,4-DIOXANS AND THEIR DERIVATIVES. 6. 4,4',5,5'-TETRACHLOROBI-1,3-DIOXLAN-2-YL
J. CHEM. SOC., PERKIN TRANS., 1, P177, 1972
- 585 72 202 COTTON FA LUKEHART CM
COMPLEXES OF CYCLIC 2-OXACARBENES. 1. A SPONTANEOUS CYCLIZATION TO FORM A COMPLEX OF 2-OXACYCLOPENTYLIDENE
JACS, 93, 2672, 1971
- 585 72 203 COUTTS RT POUND NJ (3)
1. ORGANIC SULFUR COMPOUNDS. VII. SOME REACTIONS OF BENZOTHAZINE HYDROXAMIC ACIDS. 2. PREPARATION AND PROPERTIES OF 5-NITRO, 7-NITRO, AND 5,7-DINITROXINDOLE. 3. ACETYLTATION AND ACETOXYLTATION OF 4-HYDROXY-1,4-BENZOTHAZIN- AND BENZOZIN-3(4H)-ONES (CYCLIC HYDROXAMIC ACIDS)
CAN. J. CHEM., 48, 3727 AND 3747, 1970 AND J. CHEM. SOC. C, P2696, 1971
- 585 72 204 CRABBE P
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J. CHEM. SOC., PERKIN TRANS., 1, P46, 1972
- 585 72 205 CRANDALL JK PAULSON DR
SMALL RING EPOXIDES. 3. FURTHER STUDIES ON 2,2,5,5-TETRAMETHYL-4-ISOPROPYLIDENE-1-OXASPIRO(2,2)PENTANE
J. ORG. CHEM., 36, 1184, 1971
- 585 72 206 CREONER HH
NOTIZ UBER DIE CYCLISIERUNG EINES AZOMETHINFARBSTOFFS ZU EINEM PYRAZOLOCHINOXALIN
CHEM. BER., 104, 2640, 1971
- 585 72 207 CRESPI TM SARGENT MV ELIX JA
SELECTIVE ORTHO-SUBSTITUTION OF SOME PHENOLIC COMPOUNDS
J. CHEM. SOC., CHEM. COMMUN., P214, 1972
- 585 72 208 CRIEGEE R KORBER H
DARSTELLUNG EINIGER EINFACHER KEYTONIDE
CHEM. BER., 104, 1812, 1971
- 585 72 209 CROMARTY A
AZABENZOCYCLOHEPTENONES. 13. RING EXPANSION OF 1,2-DIHYDROQUINOLINE DERIVATIVES. 15. SYNTHESIS OF BENZAZATROPONES AND A QUINOLINE ALDEHYDE BY THE DEHYDROGENATION OF CERTAIN TETRAHYDRO-1-BENZAZEPINE DERIVATIVES
J. CHEM. SOC. C, P3536, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, 2012, 1972
- 585 72 210 CROMBIE DA
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CHEM. IND. (LONDON), P1465, 1970
- 585 72 211 CROMBIE L
ACID THERMAL DECOMPOSITION PRODUCTS OF NATURAL CHRYSANTHEMUM DICARBOXYLIC ACID
J. CHEM. SOC. C, P2739, 1971
- 585 72 212 CUDDY BD
1. THE PROTOADAMANTANE ROUTE TO 1,2 AND 2,4-DISUBSTITUTED ADAMANTANES. 2. SOME REACTIONS OF 5-PHOSPHONIASPIRO-(4,4)NONANE IODIDE. A SPIRO PHOSPHONIUM RING SYSTEM
J. CHEM. SOC. C, P3173, 1971 AND TETRAHEDRON LTRS, P2397, 1971
- 585 72 213 CULLEN WP
ALGAR-FLYNN-OYAMADA OXIDATION OF ALPHA SUBSTITUTED CHALCONES
J. CHEM. SOC. C, P2848, 1971
- 585 72 214 CUMMINGS CA MILNER DJ
HETEROGENEOUS REACTIONS OF COPPER(II) CHLORIDE WITH TOLUENE, P-XYLENE, AND MESITYLENE
J. CHEM. SOC. C, P1571, 1971
- 585 72 215 CUSACK NJ
PURINES, PYRIMIDINES, AND IMIDAZOLES. 36. CARBOXYLTATION OF SOME 5-AMINOIMIDAZOLES AND RELATED COMPOUNDS, INCLUDING NUCLEOSIDES AND NUCLEOTIDES WITH POTASSIUM HYDROGEN CARBONATE IN AQUEOUS SOLUTION
J. CHEM. SOC. C, P1501, 1971
- 585 72 216 DAENIKER HU HOCHSTET AR KAISER K
1. ACID CATALYZED ISOMERIZATION OF THUJOPSENE. 2. ACETYLTATION OF THUJOPSENE
J. ORG. CHEM., 37, 1 AND 6, 1972
- 585 72 217 DAI SH DOLBIER WR
OLIGOMERIZATION AND CO-OLIGOMERIZATIONS OF ALLENE
J. ORG. CHEM., 37, 950, 1972
- 585 72 218 DANEKE J WENZLICK HW
SYNTHESES OF QUINONES IN SITU. 9. ADDITION OF NUCLEOPHILIC COMPOUNDS TO PHENAZATHONIUM CATION GENERATED IN SITU
ANN. CHEM., 740, 52, 1970 IN GERMAN
- 585 72 219 DAS GUPTA AK
COUMARIN AND RELATED COMPOUNDS. 14. A NOVEL 4-METHOXY-1-NAPHTHYL 4-METHOXY-1-NAPHTHYLETHYL KETONE FROM THE ALUMINIUM CHLORIDE CATALYZED REACTION OF 1-METHOXYNAPHTHALENE WITH ACRYLONITRILE
J. CHEM. SOC. C, P3367, 1971

- SAS 72 220 * SOS 72 240

- 585 72 241 DIMROTH K ODENWALDER H (1) VON LAUFE J (2)
1. REAKTIONEN MIT BENZO UND NAPHTHOPYRILIUMSALZEN. 2. UBER DEN ANGRIF VON NUCLEOPHIEN AM
SAUERSTOFFATOM DER CARBONYLGRUPPE
CHEM. BER., 104, 2984, 1971 AND 105, 1044, 1972
- 585 72 242 DINER UE
REACTION OF IODONIUM NITRATE WITH SOME OLEFINIC ALCOHOLS
J. CHEM. SOC. C, P3131, 1971
- 585 72 243 DINGWALL JG
STUDIES OF HETEROCYCLIC COMPOUNDS. 11. 1-OXA-6,6A-DITHIA-2-AZAPENTALENES, 1-OXA-6,6
A-DISELENA-2-AZAPENTALENES, AND 3-NITROMETHYLENE-3H-1,2,-DITHIOLES
J. CHEM. SOC., PERKIN TRANS., 1, P1360, 1972
- 585 72 244 DIRLAM JP
ELECTROREDUCTION OF ALPHA,ALPHA'-DIBROMOKETONES. 2,4-DIBROMO-2,4-DIMETHYL-3-PENTANONE
JACS, 94, 240, 1972
- 585 72 245 DITTMER OC
DERIVATIVES OF THIACYCLOBUTENE (THIETE). 5. MOLECULAR REORGANIZATION IN THE REACTION OF THIETE
SULFONE AND TETRAPHENYLCYCLOPENTADIENONE. 6. SYNTHESIS AND PROPERTIES OF SOME THIETES. 7. REACTION
OF THIETES WITH BASES
J. ORG. CHEM., 37, 225, 1111, AND 1116, 1972
- 585 72 246 DMITRIEV BA CHERNYAK AY KOCHETKOV NK
MONOSACCHARIDES. 25. SYNTHESIS OF D-GLYCERO-L-GALACTO-HEPTOSE AND D-GLYCERO-L-IDO-HEPTOSE FROM
D-XYLOSE
ZH. OB-SCH. KHIM., 41, 2754, 1971 IN RUSSIAN
- 585 72 247 DOOSON RM
DISULFUR MONOXIDE. REACTION WITH DIENES
J. ORG. CHEM., 37, 2367, 1972
- 585 72 248 DOERING WVE SCHMIDT EKG (1)
1. CONFORMATIONAL CONTROL OF STEREOCHEMISTRY IN THE NON-CONCERTED, DEGENERATE REARRANGEMENT OF A
VINYL-CYCLOPROPANE. 2. ON THE MECHANISM OF A DIELS-ALDER REACTION. BUTADIENE AND ITS DIMERS
TETRAHEDRON, 27, 2005, 1971 AND JACS, 94, 3833, 1972
- 585 72 249 DOPP D
DIE PRODUKTE DER BESTRAHLUNG DES 2-NITRO-1,4-DI-TERT.-BUTYL-BENZOLS IN ALIPHATISCHEN AMINEN
CHEM. BER., 104, 1058, 1971
- 585 72 250 DORE G BONHOMME M ROBBIA M
BENZOT(1)THIENO(2,3-D)PYRIDAZINES. 1. ETUDE DES CONDITIONS D'ACCES AUX BENZOTHIENOPYRIDAZINES. 2.
ETUDE DES REACTIONS DE SUBSTITUTION ELECTROPHILE
TETRAHEDRON, 28, 2553 AND 3277, 1972
- 585 72 251 DOROFEEV GN KUZNETSOV YV SADEKOVA EI
2-BENZOPYRILIUM SALTS. 12. SYNTHESIS OF BIS-2-BENZOPYRILIUM SALTS
KHIM. GETEROT. SOEDIN., P454, 1972 IN RUSSIAN
- 585 72 252 DOUGLASS JE WESOLOSKY JM (1) KOOTTUNGAL D (2)
1. A NOVEL 1,3-DIPOLAR ADDITION REACTION OF PYRIDINIUM CARBETHOXYCYANOMETHYLIDE. 2. 2,3-ANNELATIONS
ON QUINOLINE AND PYRIDINE 1-OXIDES
J. ORG. CHEM., 36, 1165, 1971 AND 37, 2913, 1972
- 585 72 253 DOUMAUX AR
MARKED DIFFERENCES BETWEEN THE SODIUM-AMMONIA AND CALCIUM-AMMONIA REDUCTION OF NITRILES
J. ORG. CHEM., 37, 508, 1972
- 585 72 254 DREWES SE COLEMAN PC
SYNTHESIS OF NEW MACROCYCLES. 1. MONOMERIC AND DIMERIC O-PHTHALATE ESTERS
J. CHEM. SOC., PERKIN TRANS., 1, P2148, 1972
- 585 72 255 DU PREEZ NP
STUDY OF THE BROMINATION OF THE SYN AND ANTI PHOTODIMERS OF 1,4-NAPHTHOQUINONE. CHEMISTRY OF THE
BROMINATED DERIVATIVES
J. ORG. CHEM., 36, 485, 1971
- 585 72 256 DUCK EW
A SIMPLE PREPARATION OF TRI-ISOPROPYLANISOLLES
J. CHEM. SOC. C, P1738, 1971
- 585 72 257 DUGUAY G
STUDIES OF HETEROCYCLIC COMPOUNDS. 9. FORMYLATION OF 6A-THIATHIOPHTHENS
J. CHEM. SOC. C, P2829, 1971
- 585 72 258 DUNCAN WP RUSSELL JE EISENBRA EJ
CLEMMENSEN REDUCTION OF 2-ACETONAPHTHONE
J. ORG. CHEM., 37, 142, 1972
- 585 72 259 DUNKELBLUM E
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HELV. CHIM. ACTA, 54, 6, 1971
- 585 72 260 DUNWELL DW EVANS D
SYNTHESIS OF 1,4-DIHYDROPYRIMID(2,1-C)(1,2,4)TRIAZIN-6-ONES INVOLVING A NEW RING EXPANSION
J. CHEM. SOC. C, P1615, 1971
- 585 72 261 DUTHALER RO
SUBSTITUIERTE 9-OXABICYCLO(4,2,1) UND (3,3,1)NONANE. 4. ENDO, ENDO-2,5-DIHYDROXY-9-OXABICYCLO(4,2,1)
NONAN, ENDO, ENDO, EXO, EXO-2,6-DIHYDROXY- SOWIE ENDO, EXO-2,7-DIHYDROXY-9-OXABICYCLO(3,3,1)
NONAN: DARSTELLUNG UND UMWANDLUNGSPRODUKTE
HELV. CHIM. ACTA, 55, 1809, 1972
- 585 72 262 EASTON DBJ
THE DITHIOLE SERIES. 5. REACTIONS OF 1,2-DITHIOLE-3-THIONES AND 1,3-DITHIOLAN-2-THIONES WITH
ACETYLENIC ESTERS AND WITH BENZYNE
J. CHEM. SOC., PERKIN TRANS., 1, P41, 1972

- 585 72 263 ECKHARD IF
STERIODS AND ARYNES. 3. REACTIONS OF ARYNES WITH RING-A: AROMATIC STEROIDS AND STEROIDAL 1(10)
9(11)-DIENES
J. CHEM. SOC. C, P2493, 1970
- 585 72 264 EIDUS YT PUZITSKY KV BIN YY
ON SYNTHESIS OF CARBOXYLIC ACID DERIVATIVES IN CONDITIONS OF ACID CATALYSIS FROM CARBON MONOXIDES,
OLEFINS, AND ACYLATING AGENTS. 33. CARBONYLATION OF OLEFINS AND ALCOHOLS C6-C7 OF NORMAL S
12V. AKAD. NAUK SSSR. SER. KHIM., P428, 1972 IN RUSSIAN
- 585 72 265 EISNER U KRISHNAMURTHY T
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TETRAHEDRON, 27, 5753, 1971
- 585 72 266 ELIEL EL HARTMANN AA
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J. ORG. CHEM., 37, 505, 1972
- 585 72 267 ELIX JA WILSON WS (1) WARRENER RN (1)
1. NEW SYNTHESIS OF AZOCINES. 2. ANNELATED FURANS. VIII. A SYNTHESIS OF PANNARIC ACID
AUSTRALIAN J. CHEM., 25, 865 AND 1129, 1972
- 585 72 268 ELLIOTT M
PYRETHRINS AND RELATED COMPOUNDS. 12. 5-SUBSTITUTED 3-FUROATES AND 3-THENOATES. INTERMEDIATES FOR
SYNTHESIS OF INSECTICIDAL ESTERS
J. CHEM. SOC. C, P2551, 1971
- 585 72 269 ELVIDGE JA PICKETT JA
HETEROCYCLIC IMINES AND AMINES. 13. 3,6-DIHYDRAZINOPYRIDAZINE AND THE NATURE OF THE REACTION BETWEEN
3,6-DIMETHOXYPYRIDAZINE AND HYDRAZINE
J. CHEM. SOC., PERKIN TRANS., I, P1483, 1972
- 585 72 270 ENGEL CR RUEST L (1)
STERIODS AND RELATED PRODUCTS. (1) 33. CYANOETHYLATIONS AND MICHAEL ADDITIONS. 4. THE SYNTHESIS OF
ALLYLIC CYCLOHEXENOLS BY GAMMA-CYANOETHYLATION OF ALPHA,BETA-UNSATURATED ALDEHYDES AND KETONES.
34. CYANOETHYLATIONS AND MICHAEL ADDITIONS. 5. THE SYNTHESIS OF ALLYLIC CYCLOHEXENOLS BY
GAMMA-CYANOETHYLATION OF ALPHA,BETA-UNSATURATED ALDEHYDES AND KETONES. PARTS 4 AND 5.
CAN. J. CHEM., 48, 3136 AND 3425, 1970
- 585 72 271 ERMAN WF STONE LC
GENERAL APPROACH TO THE SYNTHESIS OF ALPHA-PATCHOULANE SESQUITERPENES. THE INTRAMOLECULAR LEWIS ACID
CATALYZED ADDITION OF DIAZO KETONES TO OLEFINS
JACS, 93, 2821, 1971
- 585 72 272 FAIRD S SCHOLZ KH
RING EXPANSION OF HYDROXYKETONES TO DIHYDROFURANS
J. ORG. CHEM., 37, 481, 1972
- 585 72 273 FARCASIU D
NITROUS ACID DEAMINATION OF 2-(AMINOMETHYL)CYCLOHEXANOL. THE QUESTION OF A 1,3-HYDRIDE SHIFT OF TWO
CONSECUTIVE 1,2-HYDRIDE SHIFTS
JACS, 94, 180, 1972
- 585 72 274 FAULKNER D MCKERVEY MA
THE PI-ROUTE TO SUBSTITUTED ADAMANTANES. 1.
J. CHEM. SOC. C, P3906, 1971
- 585 72 275 FEHER F LANGER M
CONTRIBUTION TO THE CHEMISTRY OF SULFUR. 104. SYNTHESIS OF PENTATHIEPIN AND BENZOPENTATHIEPIN
TETRAHEDRON LTRS, P2125, 1971
- 585 72 276 FEINSTEI AI FIELDS EK
REACTIONS OF NITROSOBENZENE AND AZOXYBENZENE WITH BENZENE, BENZENE-D6, AND CYCLOHEXANE AT 600
DEGREES
J. ORG. CHEM., 36, 3878, 1971
- 585 72 277 FELIX D SCHREIBE J OHLOFF G
ALPHA,BETA-EPOXYKETON GOES TO ALKINON-FRAGMENTIERUNG. 1. SYNTHESE VON EXALTON UND RAC-MUSCON AUS
CYCLODODECANON. UBER SYNTHETISCHE METHODEN. 2. PYROLYTISCHER ZERFALL DER HYDRAZONE AUS ALPHA,
BETA-EPOXYKETONEN UND N-AMINGAZIRIDINEN
HELV. CHIM. ACTA, 54, 2896, 1971 AND 55, 1276, 1972
- 585 72 278 FELIX RA WEBER WP
PREPARATION AND SPECTRAL PROPERTIES OF BETA-SILYL SUBSTITUTED ALPHA,BETA-UNSATURATED KETONES
J. ORG. CHEM., 37, 2323, 1972
- 585 72 279 FERRARA G
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TETRAHEDRON, 28, 2461, 1972
- 585 72 280 FERRIER RJ VETHAVIYASER N
UNSATURATED CARBOHYDRATES. 16. ISOMERISATION OF ALLYLIC-4-AZIDES AND 4-THIOCYANATES AND THE
SUBSEQUENT SYNTHESIS OF 2-ACETAMIDO-2-DEOXYHEXOPYRANOSIDE DERIVATIVES
J. CHEM. SOC. C, P1907, 1971
- 585 72 281 FETIZON M JURION M
ALDEHYDES AND KETONES FROM THIOACETALS
J. CHEM. SOC., CHEM. COMMUN., P382, 1972
- 585 72 282 FICINI J PUULIQUEN J (1)
1. CYCLOADDITION OF YNAMINES WITH CARBON DIOXIDE. A ROUTE TO DIAMIDES OF ALLENE-1,3-DICARBOXYLIC
ACIDS. 2. UNEXPECTED THERMOLYSIS OF THE N,N-DIETHYLAMIDE OF AN ALLENE-1,3-DICARBOXYLIC ACID:
SYNTHESIS OF A 6-AMINO-ALPHA-PYRONE
JACS, 93, 3295, 1971 AND TETRAHEDRON LTRS, P2483, 1971
- 585 72 283 FIELD L KHIM YH
ORGANIC DISULFIDES AND RELATED SUBSTANCES. 34. SYNTHESIS AND REACTIONS OF SOME SUBSTITUTED CYCLIC
DISULFIDES AND CORRESPONDING S-OXIDES
J. ORG. CHEM., 37, 2710, 1972

- 585 72 284 FIELDS EK MEYERSON S
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J. ORG. CHEM., 37, 751, 1972
- 585 72 285 FIGEYS HP DRALANIS A
OLEFINIC AND ACETYLENIC COMPOUNDS. 2. NEW ROUTE TO DIBENZOBARFELLENES
TETRAHEDRON, 28, 3031, 1972
- 585 72 286 FINCH N ROBISON MM VALERIO MP
SYNTHESIS OF 4-AZAOXINDOLE
J. ORG. CHEM., 37, 51, 1972
- 585 72 287 FINDLAY JVA TURNER AB
APPLICATIONS OF HIGH POTENTIAL QUINONES. 5. RING-3 OXIDATION IN THE PODOCARPIC ACID SERIES
J. CHEM. SOC. C, P547, 1971
- 585 72 288 FINGER C
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CHEM. BER., 104, 2567, 1971
- 585 72 289 FITTJER L LUTTKE W
1. DARSTELLUNG UND EIGENSCHAFTEN DES 3,3'-DIOXO-4,4',4''-TETRAMETHYL-2,2''-BISSELENOLANYLIDENS.
EINER VERBINDUNG MIT DEM GRUNDCHROMOPHORSYSTEM DES SELENOINDIGOS. 2. INDIGO-GRUNDCHROMOPHORSYSTEME
UND INDIGO-GRUNDCHROMOPHOR-ABBAUSUBSTANZEN AUS 1,4,5,8-TETRA-SUBSTITUIERTEN OCTANDIONEN-(3,6)
CHEM. BER., 105, 919 AND 937, 1972
- 585 72 290 FITTON AD HATTON BT
PHARMACOLOGICALLY ACTIVE 4-OXO-4H-CHROMEN-2-CARBOXYLIC ACIDS. 2. SYNTHESIS OF
4-OXO-4H-CHROMEN-2-CARBOXYLIC ACIDS CONTAINING A FUSED IMIDAZOLE OR OXAZOLE RING
J. CHEM. SOC. C, P2518, 1970
- 585 72 291 FLEET GWJ
ADDITION OF ACETIC ACID TO PYRIDINES AND QUINDOLINES
J. CHEM. SOC. C, P3948, 1971
- 585 72 292 FLEMING I BISHOP MJ
SYNTHESIS OF DIMETHYL BICYCLO(3,2,2)NONA-2,6,8-TRIENE-6,7-DICARBOXYLATE
J. CHEM. SOC. C, P2524, 1970
- 585 72 293 FLISZAR S RENARD J SIMON DZ
QUANTITATIVE INVESTIGATION OF OZONOLYSIS REACTIONS. 15. QUANTUM CHEMICAL INTERPRETATION OF
SUBSTITUENT EFFECTS OF CLEAVAGE OF 1,2,3-TRIOXOLANES
JACS, 93, 6953, 1971
- 585 72 294 FLITSCH W NEUMANN U
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CHEM. BER., 104, 2170, 1971 IN GERMAN
- 585 72 295 FLOWERS WT
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DIPHENYL-1-THIOCYANATO-2,3-DIAZABUTA-1,3-DIENE (ALPHA-THIOCYANATOBENZYLIDENEHYDRAZOTOLUENE) AND
RELATED REACTIONS
J. CHEM. SOC. C, P3097, 1971
- 585 72 296 FLOYD MB ALLEN GR
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J. ORG. CHEM., 35, 2647, 1970
- 585 72 297 FODOR G
STEREOCHEMISTRY OF TROPANE QUATERNIZATION
JACS, 93, 403, 1971
- 585 72 298 FOGLIA TA
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J. ORG. CHEM., 36, 1068, 1971
- 585 72 299 FORRESTER AR RAMASSEUL R
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J. CHEM. SOC. B, P1630, 1971
- 585 72 300 FOSTER AB
FLUORINATED CARBOHYDRATES. 2. ALTERNATIVE SYNTHESIS OF 4-DEOXY-4-FLUORO-D-GLUCOSE
CARBOHYD. RES., 15, 41, 1970
- 585 72 301 FRANCK RW AUERBACH J
SINGLET OXYGEN OXIDATION OF N-PHENYLPYRROLES. ITS APPLICATION TO THE SYNTHESIS OF A MODEL MITOMYCIN
J. ORG. CHEM., 36, 31, 1971
- 585 72 302 FRANK AW DRAKE GL
ANILINE DERIVATIVES OF TETRAKIS(HYDROXYMETHYL)PHOSPHONIUM CHLORIDE
J. ORG. CHEM., 37, 2752, 1972
- 585 72 303 FREIST W
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CHEM. BER., 105, 991, 1972
- 585 72 304 FREJAVILLE C JULLIEN R
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TETRAHEDRON LETRS, P2039, 1971
- 585 72 305 FRY EM BEISLER JA
SODIUM BOROHYDRIDE REDUCTIONS OF INDOLYETHYLPYRIDINIUM BROMIDES. HEXAHYDROINDOLOQUINOLIZINES
J. ORG. CHEM., 35, 2809, 1970
- 585 72 306 FUJII T
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ISOLABLE N'-ALKOXY-1-ALKYL-5-FORMAMIDIMIDAZOLE-4-CARBOXANINES
TETRAHEDRON, 27, 2415, 1971

- 585 72 307 FUJITA E NAGAO Y (1)
TERPENOIDES. (1) XVIII. A COMMON STEREOELECTRONIC REQUIREMENT IN EPIMERISATIONS AND RETRO-DIECKMANN
TYPE CLEAVAGES OF SOME DITERPENE ALCOHOLS AND KETONES. XIX. CHEMICAL CONVERSION OF ENWEIN INTO
ENT-15-KAURENE AND ENT-16-KAURENE
J. CHEM. SOC. C. P2902, 1971 AND TETRAHEDRON. 28. 555, 1972
- 585 72 308 FUJITA S
(7)METACYCLOPHANE AND ITS 13-BROMO DERIVATIVE
TETRAHEDRON LETS. P403, 1972
- 585 72 309 FURLAN M
PYRIDAZINES. 50. METHYLATIONS AND METHYL GROUP MIGRATIONS OF SOME IMIDAZO(1,2-B)PYRIDAZINES
J. ORG. CHEM.. 37. 2689, 1972
- 585 72 310 FURRER H
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TETRAMETHYL-2.5-DIAZABICYCLO(2.2.0)HEXAN
CHEM. BER.. 105. 2780, 1972
- 585 72 311 FURUKAWA S WATANABE M
SYNTHESIS OF THIANAPHTHENO(2,3-C)PYRIDAZINE DERIVATIVES
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN). 92. 417, 1972
- 585 72 312 GAMBACORTA A
A NOVEL RING ENLARGEMENT: THE CYCLIC EXPANSION OF 2-DICHLOROMETHYL-2H-PYRROLES
TETRAHEDRON. 27. 985, 1971
- 585 72 313 GANINA TV IOFFE DV
REDUCTIVE METALLIZATION OF CARBONYL COMPOUNDS. 13. BENZANTHRONE METALLIZATION
ZH. ORG. KHIM.. 8. 358, 1972 IN RUSSIAN
- 585 72 314 GANTER C PORTMANN RE (1) ZWAHLEN W (2)
1. SYNTHES VON 2-THIA-6-AZA-ADAMANTAN UND DERIVATEN. 2. SUBSTITUIERTE 9-OXABICYCLO(4.2.1) UND
9-OXABICYCLO(3.3.1)NONANE. III. NEUE ERGIEBIGE SYNTHESE VON 2,7-DIOXATWISTAN UND
ENDO-2-HYDROXY-9-OXABICYCLO(3.3.1)NONEN-(6)
HELV. CHIM. ACTA. 54. 2069 AND 2628, 1971
- 585 72 315 GASH VM
DINEDALKYL ETHERS. A GENERAL SYNTHESIS OF THE SYMMETRICAL ETHERS
J. ORG. CHEM.. 37. 2197, 1972
- 585 72 316 GASSMAN PG THUMMEL RP
A DIELS-ALDER APPROACH TO INSIDE-OUTSIDE BICYCLICS
JACS. 94. 7183, 1972
- 585 72 317 GAWRON O
SYNTHESIS OF 8 ALPHA-HISTIDYL-3,8-DIMETHYL-10-ETHYLISOLLOXAZINE AND RELATED ISOLLOXAZINES
JACS. 94. 5396, 1972
- 585 72 318 GERICOE R WINTERFELDT E
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TETRAHEDRON. 27. 4109, 1971 AND 28. 1901, 1972
- 585 72 319 GHOSH PB
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J. ORG. CHEM.. 37. 1047, 1972
- 585 72 320 GIBSON T
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J. ORG. CHEM.. 37. 700, 1972
- 585 72 321 GILLY-TERRY S KLEIN J
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J. CHEM. SOC. C. P3821, 1971
- 585 72 322 GILMORE JR MELLOR JM
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J. CHEM. SOC. C. P2355, 1971
- 585 72 323 GIUMANINI AG SAVOLA D (2)
1. NEW DEAMINATION IN A BENZYNE ADDITION TO N-BENZYLAZIRIDINE. 2. DISPROPORTIONATION OF
2-IODOTHIOPHENE IN DIMETHYL SULFOXIDE
J. ORG. CHEM.. 37. 513 AND 514, 1972
- 585 72 324 GLEASON WB BARKER R
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DI-O-ISOPROPYLIDENE-ALPHA-D-RIBOHXOPURANOSE-3-ULOSE
CARBOHYD. RES.. 21. 447, 1972
- 585 72 325 GLEMSE O
UBER DIE DARSTELLUNG NEUER DERIVATE DES THIAZYLTRIFLUORIDS DURCH SI-N-SPLTUNGSREAKTIONEN UND
DARSTELLUNG DES N,N'-BIS(DIFLUORPHOSPHORYL) SCHWEFELDIFLUORODIIMIDS
CHEM. BER.. 105. 474, 1972
- 585 72 326 GLOOR B
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IONS AND P-NITROBENZENEDIAZONIUM IONS IN DIMETHYL SULFOXIDE
HELV. CHIM. ACTA. 55. 1596, 1972
- 585 72 327 GNICKEL K THIELE S (1)
1. DIE SYNTHESE VON 1,2,5-OXADIAZINON-(6) DERIVATEN AUS SYN-ALPHA-AMINOKETOXIMEN MIT PHOSGEN. 2.
REAKTIONEN DER SYN UND ANTI-ALPHA-AMINOKETOXIME MIT THIOPHOSGEN. 3. UBER DIE UMSETZUNG VON
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CHEM. BER.. 104. 1507 AND 1512, 1971 AND 105. 1865, 1972
- 585 72 328 GOBER B BAUER G PFEIFER S
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PHARMAZIE. 26. 51, 1971

- 585 72 329 GOMA G PAREILLE A DURAND G
ETUDE DE L'ORDRE DE LA REACTION DE DEGRADATION D'UN N-ALCANE PAR CANDIDA LIPOLYTICA
COMPT. REND., SER. D, 273, 109, 1971
- 585 72 330 GOOD RH
SYNTHESES WITH ISOXAZOLES. 2. REARRANGEMENT OF OSOXAZOLO(2,3-A)PYRIDINIUM SALTS INTO 5,6-DIHYDRO-4H-FURO(3,2-B)PYRIDIN-2-ONES
J. CHEM. SOC., PERKIN TRANS., P2441, 1972
- 585 72 331 GORALSKI CT EVANS TE
STRUCTURE AND STEREOCHEMISTRY OF THE PRODUCTS DERIVED FROM REACTION OF HALOSULFENES WITH 1-(MORPHOLINO)CYCLOHEXENE
J. ORG. CHEM., 37, 2080, 1972
- 585 72 332 GORDON JE
AROMATIC NITRATION BY SILVER NITRATE IMPREGNATED SILICIC ACID IN THE PRESENCE OF CARBON TETRACHLORIDE
J. ORG. CHEM., 35, 2722, 1970
- 585 72 333 GOTO K TAKAHASHI N MURACHI T
CHEMICAL MODIFICATION OF TYROSYL RESIDUES OF STEIN BROMELAIN
J. BIOCHEM. (TOKYO), 70, NO. 1, XXX, 1971
- 585 72 334 GOTTHARDT H
1. ISOTHIAZOLE AUS 1,3,2-OXATHIAZOLIUM-5-OLATEN UND CC-MEHRFACHBINDUNGEN. 2. THERMISCHE ADDITIONEN VON THIONEN AN TETRAMETHYLLALLEN
CHEM. BER., 105, 196 AND 2004, 1972
- 585 72 335 GRANTHAM RK METH-COHN O
DIHYDROBENZIMIDAZOLE CHEMISTRY. 5. REACTION OF QUATERNISED DIHYDROBENZIMIDAZOLES WITH NUCLEOPHILES
J. CHEM. SOC. C, P1354, 1971
- 585 72 336 GRAYSHAN PH POTERS AT
NEW INTERMEDIATES AND DYE STUFFS FOR SYNTHETIC FIBRES. 4. 2-NITRONAPHTHALENE-1,8-DICARBOXYLIC ANHYDRIDE
J. CHEM. SOC. C, P3599, 1971
- 585 72 337 GRECO CV MARCHOL JF (1) PELLEGRINI F (2)
1. CYCLIZATION OF SOME 2-(HALOACYLAMINO)PYRIMIDINES. 2. REDUCTION OF SOME ESTERS OF PYRAZOLE-3,4-DICARBOXYLIC ACID
J. ORG. CHEM., 36, 604, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P720, 1972
- 585 72 338 GREENHILL JV
REACTIONS WITH ALDEHYDES OF ENAMINONES DERIVED FROM DIMEDONE
J. CHEM. SOC. C, P2699, 1971
- 585 72 339 GRIECO PA
CYCLOPENTENONES. AN EFFICIENT SYNTHESIS OF CIS-JASMONE
J. ORG. CHEM., 37, 2363, 1972
- 585 72 340 GRIGG R
N-METHYLATION AND ELECTROPHILIC SUBSTITUTION REACTIONS OF OCTA-ALKYLPORPHINS, OCTAETHYLCHLORIN, AND METALLOPORPHINS
J. CHEM. SOC., PERKIN TRANS., 1, P1789, 1972
- 585 72 341 GRIMSHAW J
- APOVERBENONE (6,6-DIMETHYLNORPIN-3-EN-2-ONE). AN INVESTIGATION INTO ITS PREPARATION BY DEHYDROBROMINATION OF A STERICALLY HINDERED BROMOKETONE
J. CHEM. SOC., PERKIN TRANS., 1, P50, 1972
- 585 72 342 GROBOVSKY LV SCHMIR GL
THE ACETYLATION OF 2-METHYL-DELTA2-THIAZOLINE. 1. 2. FORMATION AND PROPERTIES OF 2-METHYLENE-3-ACETYLTIAZOLIDINE
TETRAHEDRON, 27, 19 AND 1185, 1971
- 585 72 343 GROVES JT PACKARD BS
TRICYCLO(5.4.0.0(4.11))UNDECA-2,6,9-TRIEN-8-ONE VIA A HOMOBULLVALENYL CATION
JACS, 94, 3252, 1972
- 585 72 344 GRUBBS EJ
SYNTHESIS AND ACETOLYSIS OF 6-OXABICYCLO(3.2.1)OCTANE-1-METHYL P-BROMOBENZENESULFONATE
J. ORG. CHEM., 36, 504, 1971
- 585 72 345 GRUTZNER JB WINSTEIN S
BICYCLOAROMATICITY. STABILITY AND REARRANGEMENTS OF THE BICYCLO(3.2.2)NONATRIENYL ANION AND CATION
JACS, 94, 2200, 1972
- 585 72 346 GSCHWEND HW HAIDER H
1-(P-CHLOROPHENYL)-3,4-DIMETHYLENEPYRROLIDINE, A NEW PYRROLE ISOMER
J. ORG. CHEM., 37, 59, 1972
- 585 72 347 GUEST IG MARPLES BA
STERIODS. 14. TRANSFORMATIONS OF 8ALPHA,9ALPHA- AND 9ALPHA,11ALPHA-EPOXYLANSOSTANES AND RELATED COMPOUNDS
J. CHEM. SOC. C, P1469, 1971
- 585 72 348 GUTTERIDGE NJA
ACYLATION OF 2-AMINO-5,5-DIMETHYL-DELTA1-PYRROLINE 1-OXIDE
J. CHEM. SOC. C, P3121, 1971
- 585 72 349 HAAKE P BAUSHER LP MCNEAL JP
FUNDAMENTAL STUDIES ON MODELS OF THIAMINE. GENERATION OF YLIDES OF OXAZOLIUM, IMIDAZOLIUM AND THIAZOLIUM IONS BY DECARBOXYLATION. APPLICATIONS TO STRUCTURE OF THIAMINE YLIDE
JACS, 93, 7045, 1971
- 585 72 350 HABERMEIER J PORRET O
HYDROXYALKYLIERUNG VON BISDIHYDANTOINEN UND BISDIHYDOURACILEN MITTELS EPOXIDEN
HELV. CHIM. ACTA, 55, 686, 1972

- 585 72 351 HADDOCK E
1,2,3-BENZOTHIADIAZOLES. 4. REARRANGEMENT OF DIAZONIUM SALTS DERIVED FROM 7-AMINO BENZOTHIADIAZOLES. 5.
REARRANGEMENT OF DIAZONIUM SALTS DERIVED FROM 7-AMINO BENZISOTHIADIAZOLES
J. CHEM. SOC. C, P3642 AND P3994, 1971
- 585 72 352 HAEDE W
PREPARATION OF UNSATURATED LACTONES OF THE STEROID GROUP. 6. SYNTHESIS OF BUFADIENOLIDES. I.
ANN. CHEM., 741, 92, 1970 IN GERMAN
- 585 72 353 HAFNER K SCHMIDT F
ZUR ACYLIERUNG VON FULVENEN 6,6'-DIFULVENYL-ATHER
TETRAHEDRON LTRS, P2237, 1971
- 585 72 354 HALL HK
SYNTHESIS AND POLYMERIZATION OF 1-BICYCLOBUTANECARBONITRILES
JACS, 93, 110, 1971
- 585 72 355 HALL JB LALA LK
CYCLIZATION OF DIMETHYL-1,6-OCTADIENES
J. ORG. CHEM., 37, 920, 1972
- 585 72 356 HALL SF OEHLISCHLAGER AC
CATIONIC REARRANGEMENTS AND CYCLIZATIONS OF DITERPENOID OLEFINS
TETRAHEDRON, 28, 3155, 1972
- 585 72 357 HAMILL H
ASPECTS OF THE 2,3-TRIMETHYLENENORBORNANE-ADAMANTANE REARRANGEMENT. SELECTIVE HALOGENATION OF
ADAMANTANE AND 1-METHYLADAMANTANE
TETRAHEDRON, 27, 4317, 1971
- 585 72 358 HAN KS
I. REACTIONS OF 1-LITHIO-2-HALOPOLYFLUOROCYCLOALKENES WITH VARIOUS ACID CHLORIDES AND
PHENYLISOCYANATE. II. SYNTHESIS AND REACTIONS OF 1,4-BIS(HALOALKYL)BENZENE DERIVATIVES
THESIS, UNIV. OF COLORADO, BOULDER. UNIV. MICROFILMS ORDER NO. 72-3657. DISS. ABS., 32B, 10, 5690,
1972
- 585 72 359 HANIFIN JW COHEN E
PREPARATION AND PYROLYSIS OF SOME 2,6-DIMETHYL-4-PYRONE-ALKYNE PHOTOADDUCTS. BICYCLIC CLAISEN
REARRANGEMENT
J. ORG. CHEM., 36, 910, 1971
- 585 72 360 HARBUCK JW RAPOPORT H
SOME OBSERVATIONS ON THE MECHANISM OF A MODIFIED KNORR PYRROLE CONDENSATION
J. ORG. CHEM., 36, 853, 1971
- 585 72 361 HARMON RE JENSEN BL
SYNTHESIS AND PHOTOLYSIS OF KREYSIGINONE
J. HETEROCY. CHEM., 7, 1077, 1970
- 585 72 362 HARNISCH H BRACK A
4-CHLORO-7-DIMETHYLAMINO-1-METHYL-2-QUINOLONE-3-CARBOXYALDEHYDE. I.
ANN. CHEM., 740, 164, 1970 IN GERMAN
- 585 72 363 HARPER JF WISBERLEY DG
NAPHTHYRIDINES. 3. PREPARATION OF PYRIMIDO(1,2-A) AND IMIDAZO(1,2-A)-(1,8)NAPHTHYRIDINES FROM
2-AMINO-1,8-NAPHTHYRIDINES. 4. PREPARATION OF ANTHYRIDINES AND PYRIMIDO(4,5-B)-(1,8)NAPHTHYRIDINES
FROM 2-AMINO-1,8-NAPHTHYRIDINES
J. CHEM. SOC. C, P2985 AND P2991, 1971
- 585 72 364 HARPER PJ HAMPTON A
SYNTHESIS OF 2',3'-O-ISOPROPYLIDENE-5'-KETO-8,5'-CYCLOADENOSINE, A NOVEL CYCLONUCLEOSIDE
J. ORG. CHEM., 37, 795, 1972
- 585 72 365 HARPP DN GLEASON JG (1) MATHIAPARANAM P (2)
1. ORGANIC SULFUR CHEMISTRY. X. SELECTIVE DESULFURIZATION OF DISULFIDES. SCOPE AND MECHANISM. 2. THE
1,3,2-DIOXAPHOSPHOLENE-SULFENYL CHLORIDE CONDENSATION. SCOPE AND MECHANISM
JACS, 93, 2437, 1971 AND J. ORG. CHEM., 37, 1367, 1972
- 585 72 366 HARRIS LE
METAL-AMINE REACTIONS. SELECTIVE 1,2'-REDUCTIVE DIMERIZATION OF NAPHTHALENE
J. ORG. CHEM., 37, 336, 1972
- 585 72 367 HASLAM E
THE SHIKIMATE PATHWAY. 1. INTRODUCTION: PREPARATION OF STEREOSPECIFICALLY LABELLED 2-DEUTERIO
DERIVATIVES OF 3-DEHYDROQUINIC ACID
J. CHEM. SOC. C, P1489, 1971
- 585 72 368 HASS A HINSCH W
1. PERHALOGENMETHYLMERCAPTO DERIVATE VON HYDROXYPYRIMIDINEN. 2.
PERHALOGENMETHYLMERCAPTO-BARBITURSAUREN
CHEM. BER., 105, 1768 AND 1887, 1972
- 585 72 369 HASSELGREN KH
BICYCLIC ENAMINES. 3. SIGMATROPIC REARRANGEMENTS IN A QUINUCRIDINE SYSTEM
TETRAHEDRON LTRS, P2917, 1971
- 585 72 370 HASSELMANN O KIRMSE W
SYNTHESE UND MASSENSPEKTROMETRIE DEUTERIERTER METHYL-ALLYL-ATHER
CHEM. BER., 106, 859, 1972
- 585 72 371 HASSNER A LEVY AB (1)
1. MECHANISM OF INTERACTION OF VINYL AZIDES WITH ELECTROPHILIC BROMINE. 2. CYCLOADDITION OF VINYL
AZIDES TO KETENES
JACS, 93, 5469, 1971 AND J. ORG. CHEM., 37, 2682, 1972
- 585 72 372 HAUFF S
DIE BETEILIGUNG DER CC-DREIFACHBINDUNG AN DER RADIKALMESOMERIE IN PHENOXYLEN
CHEM. BER., 105, 1446, 1972

- 585 72 373 HAUGWITZ RD NARAYANAN VL
2-THIOCYANOBENZIMIDAZOLES. SYNTHESIS OF 13H-(1,3,5)THIADIAZINO(3,2-A:5,6-A')
BISBENZIMIDAZOLE-13-THIONES
J. ORG. CHEM., 37, 2776, 1972
- 585 72 374 HAWKINS EGE
REACTION OF ORGANIC PEROXIDES. 17. HYDROPEROXIDES FROM CYCLOHEXANONE, CYCLOHEXYLHYDRAZONE, AND
HYDRAZOCYCLOHEXANE
J. CHEM. SOC. C, P1474, 1971
- 585 72 375 HAYASI Y NOZAKI H
REACTION OF SULPHONIUM YLIDES WITH DIPHENYLCYCLOPROPENONE. A NEW SYNTHESIS OF 2-PYRONES
TETRAHEDRON, 27, 3085, 1971
- 585 72 376 HAYDOCK DB MULHOLLAND TPC
SOME DERIVATIVES OF NN'-BISCARBOXYMETHYL AND NN'-BIS(BETA-CARBOXYETHYL)ETHYLENEDIAMINE
J. CHEM. SOC. C, P2389, 1971
- 585 72 377 HEATHCOCK CH
SYNTHESIS OF HYDROAZULENES BY SOLVOLYTIC REARRANGEMENT OF 9-METHYL-1-DECALYL TOSYLATES
J. ORG. CHEM., 37, 1796, 1972
- 585 72 378 HEFELFINGER DT CRAM DJ
MACRO RINGS. 41. PREPARATION AND REACTIONS OF (2,2)METAPARACYCLOPHANE
JACS, 93, 4754, 1971
- 585 72 379 HEIMANN W SCHREIER P
UBER DAS LIPOXYGENASE-(LIPOPEROXIDASE) SYSTEM IN CEREALIEN. 1. UNTERSUCHUNG DER REAKTIONSPRODUKTE
HELV. CHIM. ACTA, 54, 2794, 1971
- 585 72 380 HELLER O WAGNER G
DARSTELLUNG ACYLIERTER S-ALPHA-2-DESOXY-D-RIBOFURANSIDE VON 3-MERCAPTOPYRIDAZINEN
Z. CHEM., 11, NO. 10, 385, 1971
- 585 72 381 HELLER M BERNSTEIN S
SYNTHESIS AND CHEMISTRY OF 1',1'',4''(S)-TRIMETHYL-3BETA-TRITYLOXYANDROST-5-ENO(16BETA,17
BETA-BIAZETICINIUM TOSYLATE
J. ORG. CHEM., 36, 1386, 1971
- 585 72 382 HELLWINKEL D MELAN M (1) KNABE B (2) SEIFERT H (3)
1. 13 12-DIHYDRO-4H-BENZO(1,9)CHINOLIZINO(3,4:5,6,7-DEFG)ACRICINTRION-(4,8,12) UND 5,9-
DIHYDRO-CHINO(3,2,1-DE)ACRIDIN-DION-(5,9). 2. ELIMINIERUNGEN UND UMLAGERUNGEN BEI ALKYL UND
ALKENYL-BIS-2,2'-BIPHENYLYLEN-ARSENEN. 3. RINGSCHLUSSREAKTIONEN VON 2'-HETEROSUBSTITUIERTEN
BIPHENYL-2-DIAZONIUM-SALZEN ZU (SPIRO)CYCLISCHEN TETRAARYLAMMONIUM-SALZEN UND TRIBENZ(B,0,
F)AZEPINEN
CHEM. BER., 104, 1001 AND 1761, 1971 AND 105, 880, 1972
- 585 72 383 HENDESS RW
1-PHENYL-2-ACYL-3-AMINO-2-PYRAZOLIN-5-ONES FROM 1-PHENYL-3-AZIDOCARBONYL-2-PYRAZOLIN-5-ONES
J. ORG. CHEM., 37, 2400, 1972
- 585 72 384 HEY DH
INTERNUCLEAR CYCLISATION. 27. FURTHER STUDIES ON THE AROMATISATION OF SPIROCYCLOHEXADIENYL DIMERS.
28. FREE RADICAL REACTIONS OF SOME SPIROCYCLOHEXADIENE LACTAMS. 29. OXIDATION OF SOME
N-METHYLBIPHENYL-2-CARBOXAMIDES WITH PERSULPHATE. 32. DIENOL-BENZENE AND RELATED REARRANGEMENTS OF
SOME SPIROCYCLOHEXADIENE LACTAMS
J. CHEM. SOC., PERKIN TRANS., I, P105, P113, P118, AND P1162, 1972.
- 585 72 385 HEY DH
FORMATION OF N-METHYLBENZANILIDE IN THE DECOMPOSITION OF
2-(N-METHYL-N-PHENYLCARBAOXY)BENZENCEDIAZONIUM FLUOROBORATE IN ACETIC ACID
J. CHEM. SOC., PERKIN TRANS., I, P1170, 1972
- 585 72 386 HEYNS K SOLDAT W (2) KOLL P (2)
1. MODEL STUDIES ON THE FORMATION OF ORGANIC COMPOUNDS IN SIMPLE ATMOSPHERIC GASES BY ELECTRICAL
DISCHARGES. 2. UBER SELEKTIVE KATALYTISCHE OXYDATIONEN. XXVIII. KATALYTISCHE OXYDATION DER 1,6-
ANHIDRO-ALPHA-D-GALAKTOFURANOSE. DARSTELLUNG DER 1,6-ANHIDRO-BETA-L-ALTROFURANOSE
1. N71-31312. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD,
VA. 22151, 1971. 2. CHEM. BER., 104, 2063, 1971
- 585 72 387 HEYNS K RUDIGER G PAULSEN H
SELEKTIVE KATALYTISCHE OXYDATIONEN. 30. KATALYTISCHE OXYDATION VON BICYCLO(2,2,1)HEPTANDIOLEN. 31.
RANEY-NICKEL ISOMERISIERUNG VON BICYCLO(2,2,1)HEPTANDIOLEN. 32. KATALYTISCHE OXYDATION VON
BICYCLO(2,2,2)OCTANTRIOLEN
CHEM. BER., 105, 1004, 1019, AND 1028, 1972
- 585 72 388 HICKMOTT PW SHEPPARD G (1,3) YOXALL CT (2)
ENAMINE CHEMISTRY. (1) XI. REACTION OF ALPHA,BETA-UNSATURATED ACIDS AND ACID CHLORIDES WITH IMINES.
SYNTHESIS OF 2-OXOTETRAHYDROPYRIDINES AND 2-OXOOCTAHYDROQUINOLINES. (2) XII. REACTION OF ACID
CHLORIDES WITH CROSS-CONJUGATED DIENAMINES. SYNTHESIS OF GAMMA-PYRONES, DIHYDRO-GAMMA-PYRONES, AND
BIPHENYLS. (3) XIII. REACTION OF ALPHA,BETA-UNSATURATED ACID CHLORIDES WITH PRIMARY AND SECONDARY
ENAMINES. SYNTHESIS OF TETRAHYDRO-2-OXOPYRIDINES AND OCTAHYDRO-2-OXOQUINOLINES
J. CHEM. SOC. C, P1358, P1829, AND P2112, 1971
- 585 72 389 HILDICK BG SHAW G
PURINES, PYRIMIDINES, AND IMIDAZOLES. 37. SOME NEW SYNTHESIS OF PYRAZOLO(3,4-D)PYRIMIDINES,
INCLUDING ALLOPURINOL
J. CHEM. SOC. C, P1610, 1971
- 585 72 390 HILSCHER JC
NOTIZ UBER DIE SYNTHESE EINES NAPHTHALOIDEN GONANDERIVATS
CHEM. BER., 104, 2341, 1971
- 585 72 391 HIND T SATO T
SYNTHESIS OF 3,6-DIETHOXYCARBONYL-3,6-EPIPOLYTHIA-2,5-P-PIPERAZINEDIONE DERIVATIVES
TETRAHEDRON LTRS, P3127, 1971
- 585 72 392 HIRAI K MATSUDA H KISHIDA Y
1. REACTIONS OF BETA-KETO SULFIDE AND SULFOXIDE WITH NITRENE AND DIAZONIUM SALT. 2. NEW SYNTHESIS OF
SQUALENE USING 2-ALKENYLTHIOTHIAZOLINELITHIUM DERIVATIVE
CHEM. PHARM. BULL. (TOKYO), 19, 2207, 1971 AND TETRAHEDRON LTRS, P4359, 1971

- 585 72 393 HIRATA T SUGA T
STEREOCHEMICAL STUDIES OF MONOTERPENE COMPOUNDS. 9. PINACOL-TYPE REARRANGEMENTS OF
ALPHA-PINENEGLYCOL TOSYLATE
J. ORG. CHEM., 36, 412, 1971
- 585 72 394 HIRSCH JA STERNER DE (1) SZUR AJ (2)
1. THERMAL DECARBOXYLATION OF 2-FURDIOIC ACIDS. 2. REACTIONS OF ACYCLIC ENEDIONES WITH MENTHOFURAN
J. ORG. CHEM., 37, 1678, 1972 AND TETRAHEDRON, 28, 2961, 1972
- 585 72 395 HIRSCHMANN FB
FORMOLYSIS OF 3BETA-ACETOXY-SALPHA-PREGNAN-20ALPHA-YL P-TOLUENESULFONATE
TETRAHEDRON, 27, 2041, 1971
- 585 72 396 HODGE MARKGRAF J
CONVENIENT SYNTHESIS OF BENZOCYCLOBUTENE
J. ORG. CHEM., 37, 2361, 1972
- 585 72 397 HODGEMAN DK PRAGER RH
ACRIDONE STUDIES. 8. PREPARATION AND PROPERTIES OF MONOBROMO, NITRO, AMINO, AND
PIPERIDINO-10-METHYLACRIDONES
AUSTRALIAN J. CHEM., 25, 191, 1972
- 585 72 398 HOFFMAN J LINDBERG B SVENSSON S
DETERMINATION OF ANOMERIC CONFIGURATION OF SUGAR RESIDUES IN ACETYLATED OLIGO AND POLYSACCHARIDES BY
OXIDATION WITH CHROMIUM TRIOXIDE IN ACETIC ACID
ACTA CHEM. SCAND., 26, 661, 1972
- 585 72 399 HOFFMANN HMR SCHMIDT EA (1)
1. 2,4-DIMETHYL-1,3-PENTADIEN-3-OL, A SIMPLE ALIPHATIC ENOL. 2. DEBROMINATION OF ALPHA, ALPHA'-
DIBROMO KETONES WITH A ZINC-COPPER COUPLE IN DIMETHYLFORMAMIDE AND DIMETHYLACETAMIDE. A NEW
REACTION YIELDING 2-DIMETHYLAMINO-4-METHYLENE-1,3-DIOXOLANES
JACS, 94, 1373 AND 3201, 1972
- 585 72 400 HOFFMANN RW SCHAFFER W SCHUTTLE R (2)
1. TETRAMETHOXYALLEN, 11. 2+2 CYCLOADDITIONEN MIT TETRAMETHOXYALLEN. 2. METHYLEN-NORBORNADIEN, EIN
BICYCLOHEPTAFULVEN
CHEM. BER., 105, 2437, 1972 AND ANGEW. CHEM., 84, 533, 1972
- 585 72 401 HOFLE G
RINGOFFNUNG VON 4-ACYLOXAZOLINONEN-(5) DURCH CARBONSAUREN
CHEM. BER., 105, 1718, 1972
- 585 72 402 HOLLAND VR SAUNDERS BC
STUDIES IN PEROXIDASE ACTION. 21. OXIDATION OF JULOLIDINE
TETRAHEDRON, 27, 2851, 1971
- 585 72 403 HOLMES TL STEVENSON R
ARYLNAPHTHALENE LIGNANS: SYNTHESIS OF HELIOXANTHIN
J. CHEM. SOC. C, P2091, 1971
- 585 72 404 HOPF H
1. ACYCLISCHE C6H6 ISOMERE. 2. BASENKATALYSIERTE ISOMERISIERUNGEN VON BIPROPARGYL, PROPARGYL-ALLEN,
BIALLYL, UND ANDEREN ACYCLISCHEN C6H6 ISOMEREN
CHEM. BER., 104, 1499 AND 3087, 1971
- 585 72 405 HORSPOOL WM
- THE CHEMISTRY OF ORTHO-BENZOQUINONES. 5. CYCLOADDITION REACTIONS OF INDANE-5,6-QUINONE, 5,6,7,8-
TETRAHYDRO-2,3-NAPHTHOQUINONE, AND OF 4,5-DIMETHYL-1,2-BENZOQUINONE WITH CYCLOPENTADIENE. 6.
REACTION OF PRIMARY AROMATIC AMINES WITH ALKYL SUBSTITUTED 1,2-BENZOQUINONES: DISPLACEMENT OF
ALKYL GROUPS IN THE 4 AND 5 POSITIONS
J. CHEM. SOC. C, P1638, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P1024, 1972
- 585 72 406 HUSE MJ UMEN MJ (4)
1. PERHYDROINDAN DERIVATIVES. XIII. SELECTIVE METALATION OF A 7-METHOXYHEXAHYDROFLUORENE DERIVATIVE,
2. PERHYDROINDAN DERIVATIVES. XIV. DERIVATIVES OF 6-METHOXYINDENE. 3. SYNTHESIS OF SOME DIPHENYL
AND TRIPHENYL DERIVATIVES OF ANTHRACENE AND NAPHTHALENE. 4. CHEMISTRY OF CARBANIONS. XXI.
STEREOCHEMISTRY OF ENOLATE ALKYLATION IN THE 1-DECALONE SYSTEM
J. ORG. CHEM., 985, 996, 1003, AND 2841, 1972
- 585 72 407 HOWE R JHNSUN U
OXIDATIVE FISSION OF SOME ALPHA-SUBSTITUTED BETA-DIKETONES BY SELENIUM DIOXIDE
J. CHEM. SOC., PERKIN TRANS., 1, P977, 1972
- 585 72 408 HSIAO YY
SYNTHESIS AND PROPERTIES OF ISOTHIAZOLO(5,4-D)PYRIMIDINES
THESIS. UTAH STATE UNIV., LOGAN, UNIV. MICROFILMS ORDER NO. 70-26-973. DISS. ABS., 318, 7, 3919,
1971
- 585 72 409 HU CK
1. STEREOCHEMISTRY OF THE ZINC-ACETATE ACID DEBROMINATION OF ALPHA-BROMOCAMPHOR. 2. SYNTHESIS AND
PHOTOCHEMISTRY OF METHYL 1-BICYCLO(3.3.1)NONYLMETHYL KETONE
THESIS. RUTGERS UNIV., STATE UNIV. OF NEW JERSEY, NEW BRUNSWICK, UNIV. MICROFILMS ORDER NO. 72-835.
DISS. ABS., 328, 6, 3257, 1971
- 585 72 410 HUDRLIK PF HUDRLIK AM
ALPHA-METHYLENEOXETANE
TETRAHEDRON LTRS, P1361, 1971
- 585 72 411 HUFFMAN JW STARNES JJ
FRIEDEL-CRAFTS REACTION OF 3,4,4-TRIMETHYLBUTYROLACTONE AND BENZENE
J. ORG. CHEM., 37, 487, 1972
- 585 72 412 HUG E
THERMISCHES VERHALTEN VON CYCLOPROPA(C)CHROMENEN
HELV. CHIM. ACTA, 54, 306, 1971
- 585 72 413 HUG R
1. THERMISCHES VERHALTEN VON 1-ACYLBENZOCYCLOBUTENEN: EINE NEUE ISOCHROMENSYNTHESE. 2. THERMISCHE
CYCLODEHYDRATISIERUNG VON SALICYLALKOHOLEN: EINE EINFACHE SYNTHESE VON 4-SUBSTITUIERTEN
2H-CHROMENEN
HELV. CHIM. ACTA, 55, 10 AND 1675, 1972

- 585 72 414 HUGEL G LEVY J MEN JL
METHYLENE-INDOLINES, INDOLENINES, ET INDOLENINIUMS. 6. ACTION DE REACTIFS OXYDANTS. MEMISYNTHESE DE
LA VINCAMINE
COMPT. REND., SER. C. 274. 1350. 1972
- 585 72 415 HUMPHREYS DJ PROCTOR GR
NOVEL AROMATIC SYSTEMS. 10. SOME ASPECTS OF THE CHEMISTRY OF 2,3-DIHYDROXYBENZOCYCLOHEPTENES
J. CHEM. SOC., PERKIN TRANS., I. P722. 1972
- 585 72 416 IMMER H HUBER K
SYNTHESE UND BIOLOGISCHE AUSWERTUNG VON 3BETA,20(R)-DIHYDROXYFROTOST-24-EN
HELV. CHIM. ACTA. 54. 1346. 1971
- 585 72 417 IRIE H UYEO S
ACID CATALYZED REARRANGEMENT OF ABIESLACTONE
TETRAHEDRON LETRS. P3467. 1971
- 585 72 418 IRIUCHIJIMA S TSUCHIHASHI G
SYNTHESIS OF ALPHA-BROMOSULFOXIDES
SYNTHESIS. P58E. 1970
- 585 72 419 IRWIN WJ WHEELER DL (1,5) WIBBERLEY DG (2)
1. 3,5-DIPHENYLOXAZOLIDIN-2-ONE. 2. AMINOPYRROLO(1,2-C)PYRIMIDINES. A NOVEL RING CLEAVAGE. 3.
BROMINATION OF PYRROLO(1,2-C)PYRIMIDINES. 4. REDUCTION OF SOME FUSED BENZO(D) AND PYRIDO(3,2-D)
PYRIMIDINONES. 5. REACTION OF METHYL PYRROLE-2-CARBOXYLATE WITH EPOXIDES
J. CHEM. SOC. C. P3166. P3237. AND P3870. 1971. J. CHEM. SOC., PERKIN TRANS., I. P353. 1972. AND
TETRAHEDRON. 28. 1113. 1972
- 585 72 420 ISHIZUMI K INABA S YAMAMOTO H
BENZODIAZEPINES. 6. REARRANGEMENT OF 2-AMINOACETANILIDES TO ANILINDACETAMIDES
CHEM. PHARM. BULL. (TOKYO). 20. 592. 1972
- 585 72 421 ISRAEL M
REACTION OF 4,5-DIAMINO PYRIMIDINE AND ETHYL ACETOACETATE: SYNTHESIS AND CHEMISTRY OF ISOMERIC
DIMIDROPYRIMIDO(4,5-B)(1,4)DIAZEPINONES
J. HETEROCY. CHEM., 7. 1029. 1970
- 585 72 422 JACKSON JR STOODLEY RJ
STUDIES RELATED TO PENICILLINS. 8. REARRANGEMENT OF PENICILLANIC ACID DERIVATIVES TO 1,3-THIAZINES
J. CHEM. SOC., PERKIN TRANS., I. P1063. 1972
- 585 72 423 JACKSON PF
STUDIES IN HETEROCYCLIC CHEMISTRY. 4. KINETICS AND MECHANISMS FOR THE HYDROLYSIS OF BENZOXAZOLES
J. CHEM. SOC., PERKIN TRANS., II. P1582. 1972
- 585 72 424 JACOBI P
ON THE CHEMISTRY OF PHORBOL. 16. 4ALPHA-PHORBOL
ANN. CHEM., 741. 13. 1970 IN GERMAN
- 585 72 425 JAIN TC MCCLOSKEY JE
BORONTRIFLUORIDE CATALYZED CYCLIZATION OF COSTUNOLIDE. SYNTHESIS OF 4ALPHA-HYDROXYCYCLOCOSTUNOLIDE
TETRAHEDRON LETRS. P1415. 1971
- 585 72 426 JANISO G PHILBIN EM
BROMINATION REACTIONS OF 2-PHENYLTETRAHYDROQUINOLONES
TETRAHEDRON LETRS. P3075. 1971
- 585 72 427 JARDINE I MCQUILLIN FJ
COMPLEXING AND FISSION OF BENZYLIDENE ANILINES WITH PD(III), PT(III), AND RH(III) CHLORIDES
TETRAHEDRON LETRS. P459. 1972
- 585 72 428 JASTORFF B KREDS T
ANALOGUE DES ADENOSIN(3',5')CYCLOPHOSPHATS MIT STICKSTOFF UND SCHWEFELATOMEN IM PHOSPHATRING
CHEM. BER., 105. 3192. 1972
- 585 72 429 JAUTELAT M LEY K
PYRROLE DERIVATIVES FROM ACETYLENES AND TERT-BUTYLISOCYANIDE
SYNTHESIS. P593. 1970 IN GERMAN
- 585 72 430 JAWORSKA R KOCOR M
STUDIES OF STEROIDS. 13. CONVERSION OF 7-BROMOCHOLESTERYL BENZOATE ON SILICA GEL
ACTA POL. PHARM., 27. 331. 1970 IN POLISH
- 585 72 431 JENKINS CM
ELECTROCHEMICAL OXIDATION OF POLYFLUOROAROMATIC AMINES. 3. SYNTHESIS OF POLYFLUOROACRIDONES
TETRAHEDRON. 27. 2557. 1971
- 585 72 432 JENSEN NP
CHEMICAL MODIFICATIONS OF ZEARELENONE. I.
J. ORG. CHEM., 37. 1639. 1972
- 585 72 433 JENSON EK
PREPARATION AND PHYSICAL CHARACTERIZATION OF PURE HETERO AND HOMO DIHALOACETYLENES
TETRAHEDRON. 27. 33. 1971
- 585 72 434 JOHNSON D JONES G
REACTION BETWEEN 3H-PYRROLIZINES AND ACETYLENEDICARBOXYLIC ESTERS. 1. PREPARATION OF
3-(ALKOXYCARBONYLMETHYLENE)-3H-PYRROLIZINES. 2. PREPARATION OF DERIVATIVES OF CYCLO(4,2,2)AZINE (1
AZEPIND(2,1,7-CD)PYRROLIZINE)
J. CHEM. SOC., PERKIN TRANS., I. P840 AND P844. 1972
- 585 72 435 JOHNSON EL DALY JC ANSLEY DR
DESCRIPTION OF VARIOUS METHODS OF PREPARING POLYAMIC ACIDS AND POLYIMIDES
BDX-613-509. BENDIX CORP., KANSAS CITY, MO., MAY 1971. 26P. NTIS
- 585 72 436 JOHNSON PY YEE J
OXIDATION OF TETRAMETHYL-1,3-CYCLOBUTANEDIONE UNDER BAEYER-VILLIGER CONDITIONS
J. ORG. CHEM., 37. 1058. 1972

- 585 72 437 JOHNSTON JP OVERTON KH
LABORATORY MODEL FOR THE ATISANE-ACONANE CONVERSION
J. CHEM. SOC., PERKIN TRANS., I, P1490, 1972
- 585 72 438 JONES AM RUSSELL CA
ORGANOLITHIUM CHEMISTRY OF N-HETEROCYCLES. 3. REDUCTION OF 2-METHYLQUINOLINE BY LITHIUM IN
TETRAHYDROFURAN
J. CHEM. SOC. C, P2453, 1971
- 585 72 439 JONES DN
STEROIDAL SULPHUR COMPOUNDS. 8. PUMMERER REACTIONS OF STEROIDAL SULPHOXIDES INDUCED BY ACETIC
ANHYDRIDE
J. CHEM. SOC., PERKIN TRANS., I, P1329, 1972
- 585 72 440 JONES DW
PREPARATION AND THERMAL REARRANGEMENT OF A BENZOFURAN-NITRENE ADDUCT
J. CHEM. SOC., PERKIN TRANS., I, P225, 1972
- 585 72 441 JONES IW
ACID CATALYSED REACTIONS OF N-(DIPHENYLMETHYLENE)METHYLTHIOMETHYLAMINE N-OXIDE AND
O-(METHYLTHIOMETHYL)BENZOPHENONE OXIME
J. CHEM. SOC. C, P2591, 1971
- 585 72 442 JONES JGL MARPLES RA
STERIODS. 15. REARRANGEMENTS OF 9- AND 10-HYDROXY-5BETA-METHYL-19-NOR-STERIODS
J. CHEM. SOC., PERKIN TRANS., I, P792, 1972
- 585 72 443 JONES WM KRAUSE DL
ELECTRONIC EFFECTS ON THE RING OPENING OF CYCLOPROPYLIDENES
JACS, 93, 551, 1971
- 585 72 444 JOSHI VS
ORGANIC REACTIONS IN A SOLID MATRIX. 3. SILICA GEL INDUCED OXIRANE REARRANGEMENTS
TETRAHEDRON, 27, 475, 1971
- 585 72 445 JUNEK H
SYNTHESEN MIT NITRILEN. PHENYLHYDRAZONE DES DICYANMETHYLENINDANDIONS: STRUKTUR UND FARBE
HELV. CHIM. ACTA, 55, 1459, 1972
- 585 72 446 JUST G ROSSY P
ACTION OF HYDRAZINE AND ITS DERIVATIVES ON THE ADDITION PRODUCTS OF ALLYL ISOTHIOCYANATE AND
DIMETHYL MALONATE. A CORRECTION
J. ORG. CHEM., 37, 318, 1972
- 585 72 447 KAISER EM
GEM-DIALKALI DERIVATIVES OF CERTAIN FUNCTIONALLY SUBSTITUTED ORGANIC COMPOUNDS
JACS, 93, 4237, 1971
- 585 72 448 KAMETANI T FUKUMOTO K (4) FUJIHARA M (4) NYU K (5) NOGUCHI I (5)
STUDIES ON THE SYNTHESIS OF HETEROCYCLIC COMPOUNDS. (1) 370. ABNORMAL PRODUCTS OF
1-(2-AMINO-3-BENZYLOXY-4-METHOXYPHENETHYL)-1,2,3,4-TETRAHYDRO-6,7-DIMETHOXY-2-METHYLISOUQUINOLINE
BY MODIFIED PSCHORR REACTION. (2) 393. SYNTHESIS OF NORERYTHRINADIENONE BY PHENOLIC OXIDATIVE
COUPLING. (3) 401. REARRANGEMENT OF BETA-HYDROXYLAUDANOSINE. (4) 454. ABNORMAL DIENONE-PHENOL
REARRANGEMENT OF PROCLARINE. (5) 408. SYNTHESIS OF PROTOBERBERINE DERIVATIVES AS HYPOTENSIVES
J. PHARM. SOC. JAPAN, 90, 1331, 1970, J. CHEM. SOC. C, P1800 AND P1927, 1971, J. CHEM. SOC., PERKIN
TRANS., I, P394, 1972, AND YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 238, 1972
- 585 72 449 KAMETANI T IHARA M (1) SUZUKI T (1) TAKANO S (2) TAKEDA H (2)
NAKANO T (3) SEINO C (3)
STUDIES ON SYNTHESIS OF HETEROCYCLIC COMPOUNDS. (1) 459. SYNTHESIS OF RESCINNAMINE LIKE COMPOUNDS AS
ANTIHYPERTENSIVE AGENTS. (2) 474. SYNTHESIS OF CAMPTOTHECIN AND RELATED COMPOUNDS. III. SYNTHESIS
OF 12-ETHYL-6,7,10,12,13,13A-HEXAHYDRO-12-HYDROXY-1H. (3) 483. SYNTHESIS OF HOMOPORPHINE AND
ATTEMPTS TO SYNTHESIZE C-NORAPORPHINE BY PSCHORR REACTION. (4) 484. ONE STEP SYNTHESIS OF
DIBENZOINDOLIZINIUM SALT AND PHENOLIC APORPHINE BY BENZYNE REACTION
J. MED. CHEM., 15, 686, 1972, YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 743, 1972, CHEM. PHARM.
BULL. (TOKYO), 20, 1507, 1972, AND TETRAHEDRON, 28, 4667, 1972
- 585 72 450 KAMETANI T MIZUSHIM M (4) TAKANO S (4)
1. FORMATION OF INDOLE DERIVATIVES BY PHENOLIC OXIDATIVE COUPLING. 2. CYCLISED PRODUCTS IN THE
SYNTHESIS OF 6-SUBSTITUTED PHENANTHRIDINES BY PHENOLIC CYCLISATION. 3. BENZYNE REACTION. XII.
SYNTHESIS OF AMURINE AND DOMESTICINE BY THE BENZYNE REACTION. 4. SYNTHESIS OF 10,11-DIHYDRO-2
-3,7,8-TETRAMETHOXY-10,5-(N-METHYLMINOMETHANO)-SH,12H-DIBENZO(A,D)CYCLOCTENE (HOMOISOPAVINE)
J. CHEM. SOC. C, P1803, P1805, AND P2712, 1971 AND YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 204,
1972
- 585 72 451 KAMETANI T KIGASAWA K HIIRAGI M
SYNTHESES OF ANALGESICS. 28. SYNTHESIS OF 4-AMINO-3-METHYL-1,2-DIPHENYL-2-PROPIONYLOXYBUTANE
DERIVATIVES. 29. SYNTHESIS AND PHARMACOLOGICAL ACTIVITY OF N-(2-AMINOETHYL)-2-INDANAMINE
DERIVATIVES
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 421 AND 431, 1972
- 585 72 452 KANAOKA Y
DIRECT CONVERSION OF N-METHYLINDOLES INTO INDOXYL, OXINDOLE, AND DIOXINDOLE O-BENZOATES
J. ORG. CHEM., 36, 458, 1971
- 585 72 453 KANEKO M SHIMIZU B
SYNTHESIS AND PROPERTIES OF 8,2'-N-CYCLOADENOSINES
TETRAHEDRON LETS, P3113, 1971
- 585 72 454 KARIV E COHEN BJ (2)
1. ELECTROREDUCTION OF 2,2,5,5-TETRAMETHYLCYCLOHEXANE-1,3-DIONE ON MERCURY. 2. ELECTROLYTIC
REDUCTION AND CLEAVAGE OF CYCLOHEXANE-1,4-DIONE
TETRAHEDRON, 27, 805, 1971 AND J. CHEM. SOC., PERKIN TRANS., II, P509, 1972
- 585 72 455 KASHMAN Y KAUFMAN ED (1) BENARY E (2)
1. 2-HETEROCHEOLESTANES. 2. SYNTHESIS OF THE 9-PHOSPHABICYCLO(3,3,1)NONANIC AND
2-PHOSPHA-6-CXAADAMANTANIC SYSTEMS. 3. A NEW ETHERIFICATION METHOD
TETRAHEDRON, 27, 3437, 1971, 28, 4091, 1972, AND J. ORG. CHEM., 37, 912, 1972

- 585 72 456 KASMAI FS WHITLOCK HW
SYNTHESIS AND THERMODYNAMIC ACIDITY OF DIBENZ(B,G)OXOCIN
J. ORG. CHEM., 37, 2161, 1972
- 585 72 457 KATO T KANNO S (1) TANEMURA M (1) YAMANAKA H (2) KATAGIRI N (2)
1. CYCLIZATION OF POLYENES. VII. CYCLIZATION OF LABDA-13-ENE-8,12,15-TRIOL. 2. STUDIES ON KETENE AND ITS DERIVATIVES. XLVII. REACTION OF 2-AMINOPYRIDINE WITH DIKETENE
BULL. CHEM. SOC. JAPAN, 44, NO. 11, XXX, 1971 AND CHEM. PHARM. BULL. (TOKYO), 20, 142, 1972
- 585 72 458 KAUFMAN M
19-HYDROXY STEROIDS. 3. REACTIONS WITH LEAD TETRAACETATE
J. ORG. CHEM., 37, 1067, 1972
- 585 72 459 KEANA JFW KIM CU
SYNTHETIC INTERMEDIATES POTENTIALLY USEFUL FOR THE SYNTHESIS OF TETRODOTOXIN AND DERIVATIVES. 3. SYNTHESIS OF A KEY LACTONE INTERMEDIATE FROM SHIKIMIC ACID
J. ORG. CHEM., 36, 118, 1971
- 585 72 460 KEATING M
REACTIVE INTERMEDIATES. 19. THE LITHIUM SALT OF 1-(BENZOTRIAZOL-1-YL)-4-P-TOLYLSULPHONYLTETRAZENE: A NEW BENZYNE PRECURSOR
J. CHEM. SOC., PERKIN TRANS., I, P1315, 1972
- 585 72 461 KEENAN TR LEONARD NJ
SMALL CHARGED RINGS. 15. KINETICS AND STEREOCHEMISTRY OF RING EXPANSION REACTION OF 2-ARYLAZIRIDIUM SALTS WITH BENZALDEHYDE
JACS, 94, 2158, 1972
- 585 72 462 KELL DR MCQUILLIN FJ
1. STUDY OF THE KOCH SYNTHESIS OF CARBOXYLIC ACIDS. 2. REACTION OF CARBONIUM IONS IN SULPHURIC ACID WITH ACETYLENE AND SUBSTITUTED ACETYLENES
J. CHEM. SOC., PERKIN TRANS., I, P2096 AND P2100, 1972
- 585 72 463 KELLER O PRELOG V
LAVULINSAUERANILID UND 5-HYDROXY-5-METHYL-1-PHENYL-2-PYRROLIDON
HELV. CHIM. ACTA, 54, 2572, 1971
- 585 72 464 KENYON GL ROWLEY GL
TAUTOMERIC PREFERENCES AMONG GLYCOCYAMIDINES
JACS, 93, 5552, 1971
- 585 72 465 KHIM YH FIELD L
ORGANIC DISULFIDES AND RELATED SUBSTANCES. 35. PREPARATION OF UNSYMMETRICAL DISULFIDES CONTAINING CARBOXYLATE MOIETIES AND NEIGHBORING-GROUP EFFECTS OF SULFINATE AND CARBOXYLATE MOIETIES ON DISPROPORTIONATION
J. ORG. CHEM., 37, 2714, 1972
- 585 72 466 KHUONG-HUU Q
ALCALOIDES STEREOISOMERES. 123. NOUVELLE METHODE DE O-DEMETHYLATION DE METHOXY-SUCRES: DEMETHYLATION DU CYMAROSE ET D'AMINE-GLYCO-STEROIDES
TETRAHEDRON LETRS, P1935, 1971
- 585 72 467 KIBURIS J LISTER JH
NUCLEOPHILIC DISPLACEMENT OF THE TRIMETHYLAMMONIO-GROUP AS A NEW ROUTE TO FLUOROPURINES
J. CHEM. SOC. C, P3942, 1971
- 585 72 468 KIDD F
SYNTHETIC STUDY ON ZIZAANE TYPE SESQUITERPENOIDS
J. CHEM. SOC., PERKIN TRANS., I, P1755, 1972
- 585 72 469 KIEFER EF LUTZ FE
OXIDATION OF ARYLPROPENES BY 2,3-DICHLORO-5,6-DICYANOQUINONE
J. ORG. CHEM., 37, 1519, 1972
- 585 72 470 KIKUCHI Y
REEXAMINATION OF THE REACTION OF BETA-NAPHTHOL WITH TRANS-P-NITROBENZENEDIAZOCYANIDE: A NOVEL FISSION OF THE AZO DOUBLE BOND
J. CHEM. SOC. C, P2074, 1971
- 585 72 471 KIM DH SANTILLI AA
1. 7-DEAZAPURINES. III. ABNORMAL REACTION OF 6-CYANO-5-HYDROXYPYRROLO(2,3-D)PYRIMIDINES WITH THIONYL CHLORIDE. 2. REACTIONS OF 4-(2-HYDROXYETHYLAMINO)-2-PHENYL-5-PYRIMIDINECARBOXYLIC ACID WITH ACETIC ANHYDRIDE. SYNTHESIS OF 8,9-DIHYDRO-6A-METHYL-2-PHENYL-5H,6AH-OXAZOLO(2,3-B)PYRIMIDO(4,5-D)(1,3)OXAZIN-5-ONE AND 8,9-DIHYDRO-8,8-DIMETHYL-2-PHENYL-5H-OXAZOLO(2,3-B:6,1)PYRIDO(2,3-D)PYRIMIDIN-5-ONE
TETRAHEDRON LETRS, P2441, 1971 AND J. ORG. CHEM., 37, 2854, 1972
- 585 72 472 KING GS
REDUCTIVE AND OXIDATIVE CLEAVAGE OF 5-PHENYL-DELTA2-ISOXAZOLINE-3-CARBOXYLIC ACID
J. CHEM. SOC., PERKIN TRANS., I, P437, 1972
- 585 72 473 KING KF BAUER L
CHEMISTRY OF PYRIDINE. 9. DEOXYDATIVE SUBSTITUTION OF PYRIDINE N-OXIDES BY THIOPHENOLS IN THE PRESENCE OF SULFONYL HALIDES
J. ORG. CHEM., 36, 1641, 1971
- 585 72 474 KIRMSE W
DEUTERIERTÉ ALLYLOIAZONIUM-IONEN UND ALLYLKATIONEN
CHEM. BER., 105, 850, 1972
- 585 72 475 KISE H WHITFIELD GF (1) SWERN D (1)
IMINOSULFURANES (SULFILIMINES). (1) 3. PREPARATION AND PROPERTIES OF N-ACETYLMINODIALKYL-SULFURANES. (2) 4. PREPARATION AND PROPERTIES OF N-ACETYLMINODIALKYL-SULFURANES
TETRAHEDRON LETRS, P1761, 1971 AND J. ORG. CHEM., 1121, 1972
- 585 72 476 KITAHARA Y ODA M
REACTION OF 2-CHLOROTROPONE WITH ENAMINES. SYNTHESIS OF 2-(2-CYCLOCYCLOALKYL)TROPONES
SYNTHESIS, NO. 7, 368, 1971

- 585 72 477 KLEMER A KRASKA U
SYNTHESE VON ATHYL-2-AMINO-2-DESOXY-4-O-(BETA-D-GLUCURONOPYRANOSYL)-ALPHA, BETA-D-GLUCOPYRANOSID
TETRAHEDRON LETS. P431, 1972
- 585 72 478 KLINGEBIEL U GLEMSER O
ZUR REAKTION DES N,N'-BIS(TRICHLORPHOSPHORANYLIDEN)SULFAMIDS
CHEM. BER., 104, 3804, 1971 AND 105, 1510, 1972
- 585 72 479 KLIOGMAN JM BARNES RK
GLYOXAL DERIVATIVES. 3, REACTION OF GLYOXAL WITH SOME SECONDARY AMINES
J. HETEROCY. CHEM., 7, 1153, 1970
- 585 72 480 KLOCK B
SYNTHESIS OF 2-(6'-CARBOXYHEXYL)-4-HYDROXY-3-(3'-HYDROXYOCTYL)-1-CYCLOPENTANONE (RACEMIC-DIHYDROPROSTAGLANDIN-E1)
REC. TRAV. CHIM., 89, 1043, 1970
- 585 72 481 KLUGE AF
SYNTHESIS OF PROSTAGLANDIN MODELS AND PROSTAGLANDINS BY CONJUGATE ADDITION OF A FUNCTIONALIZED
ORGANOCOPPER REAGENT
JACS, 94, 7827, 1972
- 585 72 482 KLUNDER AJM ZWANENBURG B
CHEMISTRY OF STRAINED POLYCYCLIC COMPOUNDS. 3, SYNTHESIS OF CUBANE AND HOMOCUBANE ALCOHOLS
TETRAHEDRON, 28, 4131, 1972
- 585 72 483 KNORR R
DER VERLAUF DER RINGOFFNUNG BEI DER DAKIN-WEST REAKTION EINES OXAZOLIUM-5-OLATS
CHEM. BER., 104, 3633, 1971
- 585 72 484 KOBAYASHI H
ALKALINE ALCOHOLYSIS OF N-P-TOLUENESULFON SULFILIMINE
TETRAHEDRON LETS, P3109, 1971
- 585 72 485 KOCHETKOV NK BOCHKOV AF (1) SOKOLOVS TA (1) NIFANTEV EE (2) GUDKOVA IP (2)
1, SYNTHESIS OF A BRANCHED GLUCAN FROM CELLULOSE. 2, SYNTHESIS OF GLUCOSE 6-PHOSPHATE AMIDES
CARBOHYDR. RES., 19, 1, 1971 AND ZH. OBSHCH. KHIM., 42, 450, 1972 IN RUSSIAN
- 585 72 486 KOENIG T
THERMAL DECOMPOSITION OF N-NITROSOHYDROXYLAMINES. 3, N-BENZOYL-N-NITROSO-O-TERT-BUTYLHYDROXYLAMINE
JACS, 93, 938, 1971
- 585 72 487 KOFRON WG WIDEMAN LG
SPECIFIC SYNTHESIS AND SELECTIVE ALKYLATION AND CONDENSATION OF MONOESTERS OF SUBSTITUTED SUCCINIC
ACIDS
J. ORG. CHEM., 37, 555, 1972
- 585 72 488 KOHEN F
REARRANGEMENT OF 20-SUBSTITUTED BISNORALLUCHMANES AND DERIVATIVES
J. ORG. CHEM., 36, 716, 1971
- 585 72 489 KONDO K
ACID CATALYZED RING OPENING REACTIONS OF EPISULFOXIDES
JACS, 94, 5786, 1972
- 585 72 490 KONDO Y WATERS JA WITKOP B
- FRAGMENTATION D'ALCOOL ALLYLIQUE ET HOMOALLYLIQUE EN SERIE STEROIDE, OXYDOMETHYLENE-3BETA,5
BETA-A-NORCHOLESTANE
TETRAHEDRON, 28, 797, 1972
- 585 72 491 KOPTYUG VA SHLEIDER IA ISAEV IS
REARRANGEMENT OF 4-R-1,2,3,4-TETRAMETHYLCYCLOBUTENYL CATIONS TO CYCLOPENTENYL IONS
ZH. ORG. KHIM., 7, 1089, 1971 IN RUSSIAN
- 585 72 492 KORAT M
PROPELLANES. 19, DIELS-ALDER REACTIONS OF TETRAENIC PROPELLANES
TETRAHEDRON, 28, 2315, 1972
- 585 72 493 KORSHUNO SP KUDRYAVT NA PISAREVA VS
ABOUT INTERACTION OF 1-PHENYL-3-(2-FURYL)PROPIONONE WITH MORPHCLINE
KHIM. GETEROT. SOEDIN., P169, 1972 IN RUSSIAN
- 585 72 494 KORYTNYK W AHRENS H
PYRIDOXINE CHEMISTRY. 22, CONDENSATION OF PYRIDOXAL WITH THE METHYL ESTER OF GLYCINE
J. HETEROCY. CHEM., 7, 1013, 1970
- 585 72 495 KRAMER JM BERRY RS
3,4-PYRIDYNE AND ITS DIMER
JACS, 93, 7803, 1971
- 585 72 496 KRANZ E
PYRAZOLO(1,5-C)PYRIMIDIN: EIN NEUES HETEROCYCLISCHES SYSTEM
CHEM. BER., 105, 388, 1972
- 585 72 497 KREBS A KIMLING H
SEPARATION AND EQUILIBRATION OF TWO SYN-ANTI-ISOMERIC HYDRAZONES
ANN. CHEM., 740, 126, 1970 IN GERMAN
- 585 72 498 KREUTZBERGER A MEYER O
IMIDAZO(1,2-B)-S-TRIAZOLE
CHEM. BER., 105, 1810, 1972 IN GERMAN
- 585 72 499 KRICKA LJ VERNON JM
1, AUTOXIDATION OF POLYSUBSTITUTED ISOINDOLES. 2, REACTIONS OF SOME ISOINDOLES WITH ACETYLENIC
ESTERS
J. CHEM. SOC. C, P2667, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P904, 1972
- 585 72 500 KRONIGER A WHEELER DMS
SYNTHESIS OF DITERPENOID ACIDS. 11, CYCLIZATIONS WITH MALONIC ESTER
TETRAHEDRON, 28, 255, 1972

- 585 72 501 KUCKLANDER U
ÜBER DIE BILDUNG EINES NEUEN UMSETZUNGSPRODUKTES BEI DER MENITZESCU REAKTION
TETRAEDRON LTRS. P2093, 1971
- 585 72 502 KUFFNER U SCHLOGL K
OPTISCH AKTIVE DERIVATE DES 1,6-METHANO(10)ANULENS. DARSTELLUNG, CHIROPTISCHE EIGENSCHAFTEN, UND
OPTISCHE REINHEIT
TETRAEDRON LTRS. P1773, 1971
- 585 72 503 KULISH MA MIRONOV AF ROZYNOV BV
ANOMALOUS COURSE OF OXIDATIVE CYCLIZATION OF BILADIENES WITH UNSUBSTITUTED BETA POSITIONS
ZH. OBSHC. KHIM., 41, 2743, 1971 IN RUSSIAN
- 585 72 504 KULKARNI GH
TERPENOID. 146. ALLYLIC OXIDATIONS OF SANTENOLIDES
CHEM. IND. (LONDON), P1498, 1970
- 585 72 505 KURZER F
HETEROCYCLIC COMPOUNDS FROM UREA DERIVATIVES. 21. ADDUCTS FROM THIOCARBONOHYDRAZIDES AND
ARYLSIOTHIOCYANATES AND THEIR CYCLISATION
J. CHEM. SOC. C. P2932, 1971
- 585 72 506 KUSZMANN J
PUMMERER REARRANGEMENT OF THIOANHYDROHEXITOL SULFOXIDES
TETRAEDRON, 27, 5055, 1971
- 585 72 507 KUTNEY JP
STUDIES ON SOME ELECTROPHILIC SUBSTITUTION REACTIONS IN THE FURAN SERIES. SYNTHESIS OF 2,4-
DISUBSTITUTED FURANS
TETRAEDRON, 27, 3323, 1971
- 585 72 508 KUZNETSO YA ZHURAVLE SV STEPANOV TN
SYNTHESIS OF SOME 7-SUBSTITUTED THIAZOLINO(3,2-ALPHA)BENZOIMIDAZOLES
KHIM. GETEROT. SOEDIN., P177, 1972 IN RUSSIAN
- 585 72 509 KUZNETSOV YV PYSHCHEV AI DOROFEEV GN
ON SYNTHESIS OF SUBSTITUTED GAMMA-PYRONES
KHIM. GETEROT. SOEDIN., P152, 1972 IN RUSSIAN
- 585 72 510 KYBURZ R
EINE NEUE FULVENSYNTHES
HELV. CHIM. ACTA, 54, 1037, 1971
- 585 72 511 LAMBERT JB HOLCOMB AG (1)
1. EVIDENCE CONCERNING THE BISHOMOXYCLOPENTENIUM DICATION AS A SOLVOLYTIC INTERMEDIATE. 2. SOLVOLYSIS
OF CIS-BICYCLO(5.1.0)OCT-4-EN-3-YL TOSYLATE
JACS, 93, 2994, 1971 AND J. ORG. CHEM., 37, 374, 1972
- 585 72 512 LARDICCI L
ALKYL METAL ASYMMETRIC REDUCTION. 2. STERIC CONTROL OF DELTA,GAMMA-CHIRAL CENTER IN THE REDUCTION OF
ACHIRAL KETONES
TETRAEDRON LTRS, P687, 1972
- 585 72 513 LAUTZENHEISER AND A
STEROIDAL ADDUCTS. 3. NOVEL DEHYDROGENATIONS OF STEROIDS VIA ENE ADDUCTS WITH TETRACYANOETHYLENE
J. ORG. CHEM., 36, 83, 1971
- 585 72 514 LEE PE SODERBERG RH
CHELATE COMPLEXES OF IODONIUM CATIONS. PREPARATION OF DIBENZIODOLIUM 1,3-DIPHENYL-1,3-PROPANEDIONATE
AND DIBENZIODOLIUM 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE
JACS, 94, 4132, 1972
- 585 72 515 LEMAHIEU RA
4-DECHLORINATION OF 4,6-DISUBSTITUTED STEROIDS
JACS, 93, 1664, 1971
- 585 72 516 LENGUEL I MARK RV
AN ALPHA-LACTAM AS AN ALKYLATING AGENT
SYCO, 2, NO. 2, 109, 1972
- 585 72 517 LEROM MW PETERS HM ROSS DL HILL ME
SYNTHESIS OF DIFLUORAMINOPOLYNITROAROMATIC COMPOUNDS USING ELEMENTAL FLUORINE: 3-DIFLUORAMINO-2
-2,4,4',6,6'-HEXANITROSTILBENE
SC-CR-715134, STANFORD RESEARCH INST., MENLO PARK, CALIF., 1971, 20P, NTIS
- 585 72 518 LEVY AB HASSNER A
PYROLYSIS OF CYCLOPROPYL AZIDES. A ROUTE TO 1-AZETINES
JACS, 93, 2051, 1971
- 585 72 519 LEWBART ML
PREPARATION AND PROPERTIES OF STEROIDAL 17,20 AND 20,21-ACETONIDES EPIMERIC AT C-20. 3. DIOXOLONE
DERIVATIVES OF ALPHA-HYDROXY ACIDS
J. ORG. CHEM., 36, 586, 1971
- 585 72 520 LICHMAN KY
CHLORINATION OF INDOLE ALKALOIDS AND RELATED COMPOUNDS WITH 1-CHLOROBENZOTRIAZOLE
J. CHEM. SOC. C, P2539, 1971
- 585 72 521 LICHTENTHALER FW BAMBACH G
C=O MIGRATION OF AN ETHOXYCARBONYL GROUP
J. ORG. CHEM., 37, 1621, 1972
- 585 72 522 LINDIG C REPKE KRH
MECHANISMUS DER BASENKATALYSIERTEN REAKTION VON CARDENOLIDEN. 1. ABHANGIGKEIT VOM LÖSUNGSMITTEL. 2.
EINFLUSS DER TEMPERATUR
TETRAEDRON, 28, 1847 AND 1859, 1972
- 585 72 523 LINDOW OF
METAL-AMMONIA REDUCTION. 12. MECHANISM OF REDUCTION AND REDUCTIVE ALKYLATION OF AROMATIC
HYDROCARBONS. 13. REGIOSPECIFICITY OF REDUCTION AND REDUCTIVE METHYLATION IN THE TERPHENYL SERIES
JACS, 94, 5406-5420, 1972

- 585 72 524 LINDSAY SMITH JR
AMINE OXIDATION. 6. METAL-ION INDUCED DEHYDRATIVE CYCLISATION, REDUCTION, AND REDUCTIVE
FRAGMENTATION OF ARYLETHYLDIMETHYLAMINE N-OXIDES
J. CHEM. SOC., PERKIN TRANS., I, P228, 1972
- 585 72 525 LIPKIN D RABI JA
IODINATION OF THYMIDINE. SYNTHESIS OF O(6),5'-CYCLOTHYMIDINE
JACS, 93, 3309, 1971
- 585 72 526 LIST GR EVANS CO SELKE E
PYROLYSIS OF SOME ACETOXYNONEMES
LIPIOS, 6, 635, 1971
- 585 72 527 LITTLEWOOD PS
CALCIFEROL AND ITS RELATIVES. 15. PREPARATION OF DES-AB-CHOLEST-8-ENE-8-CARBALDEHYDE (1BETA-((1R)-1
(5-O-DIMETHYLHEXYL)-3AALPHA,6,7,7ABETA-TETRAHYDRO-7ABETA-METHYLINDANE-4-CARBALDEHYDE) AND
SALPHA-CHLORO-DES-AB-CHOLESTAN-8-ONE (SALPHA-CHLORO-1BETA-((1R)-1,5-
DIMETHYLHEXYL)-7ABETA-METHYL-TRANS-PERHYDROINDAN-4-ONE)
J. CHEM. SOC. C, P2955, 1971
- 585 72 528 LOCKHART IH WRIGHT M
CYCLISATION OF 4-PHENOKYBUTYRIC ACID
J. CHEM. SOC. C, P3182, 1971
- 585 72 529 LONDRIAN ME MULVANEY JE
RING OPENING REACTIONS OF TRIPHENYLCYCLOPROPYL ANIONS. 2. AN APPARENT DISROTATORY OPENING OF A
CYCLOPROPYL ANION
J. ORG. CHEM., 37, 2823, 1972
- 585 72 530 LOOKER BE SONDHEIMER F
SYNTHESIS OF METHYLENE SUBSTITUTED MACROCYCLIC POLYACETYLENES
TETRAHEDRON, 27, 2567, 1971
- 585 72 531 LOOKER JJ
AN UNUSUAL SPIRANE SYNTHESIS
J. ORG. CHEM., 37, 3401, 1972
- 585 72 532 LORD WM PETERS AT
NEW INTERMEDIATES AND DYESTUFFS FOR SYNTHETIC FIBRES. 5. BY-PRODUCTS OF THE ULLMANN CONDENSATION
BETWEEN 1-CHLOROANTHRAQUINONE AND ANILINE
J. CHEM. SUL. C, P3600, 1971
- 585 72 533 LOWE JN INGRAMAM LL
MODEL OF METHYLMALONYL ISOMERASE REACTION
JACS, 93, 3801, 1971
- 585 72 534 LOWN JW MATSUMOTO K
REACTIONS OF CARBONYL FLUIDS
CAN. J. CHEM., 49, NO. 21, XXX, 1971
- 585 72 535 LUCAS K
NUCLEOPHILE REAKTIONEN MIT BETA-TOSYLOXYALDEHYDEN
CHEM. BER., 104, 3607, 1971
- 585 72 536 LUHMANN U LUTKE W
4,4-DIMETHYL-TETRAHYDROFURANON-(3)

CHEM. BER., 105, 1350, 1972 IN GERMAN
- 585 72 537 LUND E PALMER GE WELAND RP
REACTION OF DIMETHYLOXOSULPHONIUM METHYLIDE WITH BETA-DIKETONES
J. CHEM. SOC., CHEM. COMMUN., P136, 1972
- 585 72 538 LUNN HW HARPER RW
FORMATION OF TRIAZABENZACEPHENANTHYLIUM SALTS. THEIR SOLVOLYSIS AND BOROHYDRIDE REDUCTION
J. ORG. CHEM., 37, 607, 1972
- 585 72 539 LUTSKAY BN SCHROEPFER GJ
STUDIES ON THE ENZYMIC CONVERSION OF SALPHA-CHOLESTA-8,14-DIEN-3-OL TO CHOLESTEROL
J. BIOL. CHEM., 245, 6449, 1970
- 585 72 540 MACMILLAN J PRYCE RJ
REARRANGEMENT OF EXO-2-BROMOBICYCLO(2,2,1)HEPTANE-1-CARBOXYLIC ACID DURING REDUCTION WITH LITHIUM
ALUMINIUM HYDRIDE
J. CHEM. SOC. C, P181A, 1971
- 585 72 541 MACPHERSON EJ SMITH JG
CHEMICAL SYNTHESIS WITH BERGMANN-SCHLENK ADDUCTS. 8. CYCLODEHYDROGENATION OF BENZIL DIANIL
TETRAHEDRON, 27, 2645, 1971
- 585 72 542 MAHENDRAN M JOHNSON AM
THERMAL REARRANGEMENT OF 1-SUBSTITUTED 1H-AZEPINES TO 6-AMINOFULVENES
J. CHEM. SOC. C, P1237, 1971
- 585 72 543 HAIR AC STEVENS MFG
1. TRIAZINES AND RELATED PRODUCTS. VIII. POTENTIAL IRREVERSIBLE CHYMOTRYPSIN INHIBITORS: 3-ALKYL-1
(2,3-BENZOTRIAZIN-4(3H)-ONES AND O-AZIDOBENZAMIDES. 2. AZIDACRIDINES: POTENTIAL NUCLEIC ACID
MUTAGENS
J. CHEM. SOC. C, P2317, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P101, 1972
- 585 72 544 MAJETI S
GAMMA-BUTYROLACTONES FROM THE IRRADIATION OF UNSATURATED ESTERS IN ALCOHOLS
J. ORG. CHEM., 37, 2914, 1972
- 585 72 545 MANECKE G ZERNER D
SYNTHESE VON SUBSTITUIERTEN 2-ARYLBENZOFURANEN
CHEM. BER., 105, 1943, 1972
- 585 72 546 MANHAS MS BOSE AK
1. BETA-LACTAMS. I. 2. SYNTHESIS AND REACTIONS OF 10-BROMO-7,8,9,10-TETRAHYDROPHENANTHRIDINES
JACS, 94, 3286, 1972 AND J. CHEM. SOC., PERKIN TRANS., I, P2119, 1972

- 585 72 547 MARK V WEIL ED
ISOMERIZATION AND CHLORINATION OF DECACHLOROB1-2,4-CYCLOPENTADIEN-1-YL
J. ORG. CHEM., 36, 676, 1971
- 585 72 548 MARKOVSK LN FEDYUK GS LEVCHENK ES
N-SUBSTITUTED IMINO THIONYL CHLORIDES. REACTIONS WITH CARBONYL COMPOUNDS, DIMETHYL SULFOXIDE
ZH. ORG. KHIM., 8, 286, 1972 IN RUSSIAN
- 585 72 549 MARPLES BA
STERIODS AND ARYNES. 3. REACTIONS OF ARYNES WITH RING-A AROMATIC STERIODS AND STERIODAL 1(10),9(11)-DIENES
J. CHEM. SOC. C, P2493, 1970
- 585 72 550 MARSCHAL H
FRAGMENTIERUNGSREAKTIONEN AN CARBONYLVERBINDUNGEN MIT BETA-STANDIGEN ELEKTRONEGATIVEN SUBSTITUENTEN. 20. 'GAMMA-FRAGMENTIERUNG' VON 5-METHYL-1-(P-TOLUOLSULFONYLOXYMETHYL)-BICYCLO(3.2.0)HEPTANON-(6)
CHEM. BER., 105, 541, 1972
- 585 72 551 MARKER A
EINE NEUE AMIDINSYNTHESE MIT HILFE DER GRIGNARD REAKTION
HELV. CHIM. ACTA, 55, 430, 1972
- 585 72 552 MASAMUNE T
ON THE ELECTROPHILIC SUBSTITUTIONS AND ADDITIONS TO THE PYRROLIDINE ENAMINE OF
1-ACETYL-3-OXOPIPERIDINE
J. ORG. CHEM., 37, 2343, 1972
- 585 72 553 MATIER WL DYKSTRA SJ
NOVEL CYCLIZATIONS AND RING OPENING REACTIONS OF 3-PHENYLINDENE DERIVATIVES
J. ORG. CHEM., 36, 650, 1971
- 585 72 554 MATSUBAR Y KISHIMOT T YAMAMOTO H
REACTION OF 2(10)-PINENE WITH METHYL ACRYLATE AND ACROLEIN
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., P669, 1972
- 585 72 555 MATSUMOT T SHIRAHAM H ICHIHARA A
1. SYNTHESIS OF 5,5-DIMETHYL-4-ACETOXY-2-CYCLOPENTENONE AND
5-METHYL-1-5-ACETOXYMETHYL-4-ACETOXY-2-CYCLOPENTENONE INTERMEDIATES FOR ILLUDIN-M AND S. 2.
SYNTHESIS OF 5,5-DIMETHYL-4-ACETOXY-2-CYCLOPENTENONE, AN INTERMEDIATE IN TOTAL SYNTHESIS OF
ILLUDIN-M, THROUGH SULFUR COMPOUNDS. NOVEL INTRAMOLECULAR MIGRATION OF ETHYLENEDIOLYX GROUP
BULL. CHEM. SOC. JAPAN, 45, 1140 AND 1144, 1972
- 585 72 556 MATSUMURA K
PREPARATION OF 5-ACETYL-8-QUINOLINOL DERIVATIVES
BULL. CHEM. SOC. JAPAN, 43, 3282, 1970
- 585 72 557 MATTHEWS RD SCANLAN RA LIBBEY LM
AUTOXIDATION PRODUCTS OF 2,4-DECADIENAL
J. AMER. OIL CHEM. SOC., 48, NO. 11, XXX, 1971
- 585 72 558 MAYER CF CRANDALL JK
PYROLYSIS OF NOPINONE
J. ORG. CHEM., 35, 2688, 1970
- 585 72 559 MCANDREW BA RIEZEBOS G
SYNTHESIS OF DIHYDROTAGETONE (2,6-DIMETHYLOCT-7-EN-4-ONE)

J. CHEM. SOC., PERKIN TRANS., 1, P367, 1972
- 585 72 560 MCBEE ET
HEXACHLOROPULVENE. 1. SYNTHESIS AND REACTIONS UNDER DIELS-ALDER CONDITIONS. 2. REACTIONS UNDER IONIC
CONDITIONS
J. ORG. CHEM., 37, 683 AND 1100, 1972
- 585 72 561 MCCLELLAND RA NORMAN RO THOMAS CB
REACTIONS OF LEAD(IV). 22. RADICAL INITIATED OXIDATION OF ANISOLE. 23. REACTIONS OF LEAD
TETRABENZOATE WITH SOME BENZENDIO COMPOUNDS, AND COMPARISON WITH THOSE OF DIBENZOYL PEROXIDE. 24.
REACTIONS WITH SOME BENZENDIO COMPOUNDS IN PRESENCE OF MONOETHYL OXALATE
J. CHEM. SOC., PERKIN TRANS., 1, P562, P570, AND P578, 1972
- 585 72 562 MCCORKINDALE NJ
NOVEL HOMOPHTHALIMIDE (ISOQUINOLINE-1,3-DIONE) DERIVATIVES OBTAINED BY ADDITION-CYCLISATION
REACTIONS OF NMA-2,7-DIYNEIDIOIC ACID DERIVATIVES WITH METHYLAMINE
J. CHEM. SOC. C, P3620, 1971
- 585 72 563 MCOONALD RN REITZ RR
STRAINED RING SYSTEMS. 12. SYNTHESIS OF SEVERAL DIMETHYL-DELTA-CYCLOALKENE-1,2-DICARBOXYLATES AND
CERTAIN 4-SUBSTITUTED BICYCLO(2.1.0)PENTANE-1-CARBOXYLIC ACIDS
J. ORG. CHEM., 37, 2418, 1972
- 585 72 564 MCKERVEY MA
CONVENIENT SYNTHESIS OF CIS-BICYCLO(3.3.0)OCTANE-1-CARBOXYLIC ACID
J. CHEM. SOC. C, P2431, 1971
- 585 72 565 MCKINNEY JD HAWKE ER BOOZER EL
ON CHEMISTRY OF ISOMERIC DICHLORODIPHENYLACETALDEHYDES RELATED TO DDT. STEREOELECTRONIC EFFECTS IN
HYDROLYSIS OF THEIR CYCLIC ACETALS
CAN. J. CHEM., 49, 3877, 1971
- 585 72 566 MCMURRY JE GLASS TE
NEW SYNTHESIS OF 1,4-DIKETONES: APPLICATION TO SYNTHESIS OF CIS-JASMONE
TETRAHEDRON LETS, P2575, 1971
- 585 72 567 MCNEIL DW
AZOCINE. FLASH VACUUM PYROLYSIS OF 7,8-DIAZAPENTACYCLO(4.2.2.0(2.5).0(3.9).0(4.10))DEC-7-ENE (DIAZABASKETENE)
JACS, 93, 3817, 1971
- 585 72 568 MCOMIE JFW
BIPHENYLENES. 27. SYNTHESIS OF COMPOUNDS DERIVED FROM 2-ACETYLBIIPHENYLENE
J. CHEM. SOC. C, P2500, 1970

- 585 72 569 MEIJERE AD
DISPIRO(2.0.2.4)DECA-7,9-DIENE. A BISHOMOORTHO-QUINODIMETHANE
ANGEW. CHEM., 82, 934, 1970 IN GERMAN
- 585 72 570 MELVIN LS TROST BM
NEW SYNTHETIC REACTIONS. TRANSFER ALKYLATIONS
JACS, 94, 1790, 1972
- 585 72 571 MENZEL DB
OXIDATION OF BIOLOGICALLY ACTIVE REDUCING SUBSTANCES BY OZONE
ARCH. ENVIRON. HEALTH, 23, NO. 2, 149, 1971
- 585 72 572 MESTRES R
ADDITION OF SECONDARY AMINES TO DIACETYLENIC KETONES
J. CHEM. SOC., PERKIN TRANS., 1, P805, 1972
- 585 72 573 METCALF BW SONDHEIMER F
MONODEHYDRO(26)ANNULENE. DEMONSTRATION OF A DIAMAGNETIC RING CURRENT IN 26-MEMBERED MACROCYCLE
JACS, 93, 5271, 1971
- 585 72 574 MEYER AL TURNER RB
AN INTERESTING SYNTHESIS OF 3-METHOXY-2,6-DIMETHYLPHENETHYL ALCOHOL
TETRAHEDRON, 27, 2609, 1971
- 585 72 575 MEYERS AI TAKAYA T (1) STRICKLAND RC (2)
1. USE OF SULFLENES AS A VEHICLE FOR THE FORMATION OF DIVINYL CARBAMATES AND DIVINYL ETHERS. 2.
SYNTHESIS AND PROPERTIES OF 2-(2-CYANOETHYLIDENE)-1,3-DITHIANE AND ITS ISOMERIC KETENE THIOACETAL
TETRAHEDRON LETS, P2609, 1971 AND J. ORG. CHEM., 37, 2579, 1972
- 585 72 576 MICHEEL F SCHLEIFSTEIN ZH
SYNTHESE VON ISOCHROMAN DERIVATEN AUS DL-GLYCERINALDEHYD UND EENZOL IN FLUSSIGEM FLUORWASSERSTOFF
CHEM. BER., 105, 650, 1972
- 585 72 577 MILLER B HAN CH
REACTIONS OF DIARYL DISULFIDES WITH ACTIVE NONNUCLEOPHILIC ALKYLATING AGENTS
J. ORG. CHEM., 36, 1513, 1971
- 585 72 578 MILLER D
ELECTROCHEMICAL DIMERIZATION OF 3-METHYLCROTONALDEHYDE
J. ORG. CHEM., 36, 1683, 1971
- 585 72 579 MILNE GH TOWNSEND LB
SYNTHESIS OF ALPHA AND BETA-2'-DEOXYSELENOGUANOSINE
BIOCHIM. BIOPHYS. ACTA, 269, 344, 1972
- 585 72 580 MIR I
ANTITUBERCULOSIS AGENTS. 2. ALPHA-(5-(2-FURYL)-1,3,4-OXADIAZOL-2-YL-THIO)ACETOHYDRAZIDE AND RELATED
COMPOUNDS
J. CHEM. SOC. C, P2798, 1971
- 585 72 581 MIYAKA A TOMODA M
STUDIES ON CONFORMATION AND REACTIVITY. 11. PHOTOCHEMICAL OXIDATION, OZONOLYSIS, AND REARRANGEMENT
OF 5',6'-DIHYDROCHOLESTA-3,5-DIENO(3,4-B)(1,4)OXATHIIN
J. CHEM. SOC., PERKIN TRANS., 1, P663, 1972
- 585 72 582 MIYASHI T

COPE REARRANGEMENT OF 1-METHOXYBICYCLO(3.2.0)HEPTA-3,6-DIEN-2-UNES
JACS, 93, 3441, 1971
- 585 72 583 MIYOSHI M
SYNTHESIS AND REACTIVITIES OF 1-CARBOBENZDXY-3-SUBSTITUTED-AZIRIDINONES
BULL. CHEM. SOC. JAPAN, 43, 3321, 1970
- 585 72 584 MNJOYAN AL HAKOPIAN TR (1) PIRJANOV LS (2) BKHIAN MT (2)
1. STUDIES ON AMINE SYNTHESIS. XX. SYNTHESIS OF SOME TERTIARY AMINES. 2. ISOQUINOLINE DERIVATIVES.
VII. N-SUBSTITUTED 1-METHYL-6,7-DIMETHOXY-1,2,3,4-TETRAHYDROISOQUINOLINES
ARM. KHIM. ZH., 24, 983 AND 995, 1971
- 585 72 585 MODENA G
NOVEL ROUTE TO RACEMIZATION OF SULFOXIDES
JACS, 94, 202, 1972
- 585 72 586 MOHRLE H SCHITTENHELM D (1) DORNBRACK S (2)
1. FINE NEUE METHODE ZUR DARSTELLUNG VON 1,2-DICARBONYLVERBINDUNGEN. 2.
2-PHENYL-3-AMINOPROPIONITRILE UBER MANNICHBASEN. IV.
CHEM. BER., 104, 2475, 1971 AND TETRAHEDRON, 28, 1343, 1972
- 585 72 587 MONDON A SEIDEL PR (1) AUMANN G (2)
1. SYNTHESE DES 15,16-DIMETHOXY-TRANS-ERYTHRINANS UND DESSEN ABBAU ZUM TRANS-ERYTHRINAN. 2. NOTIZ
ZUR DARSTELLUNG DER CYCLOHEPTANON-(1) CARBONSAURE-(3). 3. UBER DAS UMLAGERUNGSPRODUKT C18H19NO3
VOM SCHMP. 174 DEGREES
CHEM. BER., 104, 2937, 1971 AND 105, 1459 AND 2036, 1972
- 585 72 588 MONNERET C
TRANSPOSITION ACIDO-CATALYSEE EN SERIE STEROIDE. RETRO-MIGRATION DE METHYLE. FORMATION, DANS L'ACIDE
SULFURIQUE, D'UN STEROIDE SATURE PAR PROTONATION D'UNE DOUBLE LIAISON SUIVE DE TRANSFERT D'HYDRURE
INTERMOLECULAIRE
TETRAHEDRON LETS, P3223, 1971
- 585 72 589 MONSAN P DURAND G
NOUVELLE METHODE DE PREPARATION D'ENZYMES FIXEES SUR DES SUPPORTS MINERAUX
COMPT. REND., SER. C, 273, 33, 1971
- 585 72 590 MONTHONY JF OKAMURA WH (1)
C11H12 HYDROCARBONS. 1. REACTION OF CYCLOOCTATETRAENE DIANION WITH SUBSTITUTED 1,3-DICHLOROPROPANES.
PREPARATION OF TRICYCLO(5.4.0.0(2,6))UNDECA-3,8,10-TRIENE. 2. PREPARATION OF TRICYCLO(5
.4.0.0(2,5))UNDECA-3,8,10-TRIENE, A NORBORNENONE ROUTE FROM CYCLOHEPTADIENE
TETRAHEDRON, 28, 4273 AND 4285, 1972

- 585 72 591 MOOKHERJEE ED KLAIBER EM
SYNTHESIS OF 3-ALKYL-2-PYRAZINYL METHYL KETONES AND RELATED COMPOUNDS
J. ORG. CHEM., 37, 511, 1972
- 585 72 592 MOORE HW GRAYSTON MW
CONJUGATED EPOXY COMPOUNDS. AN UNUSUAL RING CONTRACTION OF TRANS-2,3,5,6-DIEPOXY-2,5-DI-T-BUTYL-1,4-BENZOOQUINONE UPON REACTION WITH DIAZOMETHANE
J. ORG. CHEM., 35, 2832, 1970
- 585 72 593 MOORE WR COSTIN CR (1) BACH RD (2)
1. SYNTHESIS OF 2,2,3,2',2',3'-HEXAMETHYLBIS(1-BICYCLO(1,1,0)BUTYL). CONJUGATION IN A FORMALLY SATURATED SYSTEM. 2. FORMATION OF OPTICALLY ACTIVE 1,2-CYCLONONADIENE FROM TWO DIFFERENT CYCLOPROPYLENE PRECURSORS
JACS, 93, 4910, 1971 AND 94, 3148, 1972
- 585 72 594 MORELLI I
REACTION OF 3ALPHA-ISOPROPYL-3,5BETA-EPOXY-A-NORCHOLESTANE WITH BF₃. A NOVEL FRAGMENTATION OF AN EPOXIDE
TETRAHEDRON LETS, P717, 1972
- 585 72 595 MORGAN JG
SYNTHESIS OF 1,10,11,11A-TETRAHYDRO-11A-METHYL-2H-NAPHTH(1,2-G)INDOL-7-OL, AN EQUILENIN-LIKE 15-AZA STEROID
J. ORG. CHEM., 36, 1599, 1971
- 585 72 596 MORI Y TSUJI J
ORGANIC SYNTHESIS BY MEANS OF METAL COMPLEXES. 8. REACTIONS OF METHYL TRICHLOROACETATE WITH OLEFINS CATALYZED BY METAL CARBOXYLS (TRICHLOROCARBOXYLIC ACID ESTER, DICHLOROBUTYROLACTONE)
TETRAHEDRON, 28, 29, 1972
- 585 72 597 MORICONI EJ SHIMAKAWA Y
REACTION OF ACETYLENES WITH CHLOROSULFONYL ISOCYANATE
J. ORG. CHEM., 37, 196, 1972
- 585 72 598 MORRIS JM
METAL NITRIDES IN ORGANIC REACTIONS. 2. REACTIONS OF LITHIUM NITRIDE WITH AROMATIC ALDEHYDES
J. ORG. CHEM., 37, 1244, 1972
- 585 72 599 MORRISON GA QURESHI NI
ONE STEP CONVERSION OF A STYRENE DERIVATIVE INTO A BENZOYLELEFIN
TETRAHEDRON, 28, 4239, 1972
- 585 72 600 MORTENSEN JZ
THIOPHENE CHEMISTRY. 17. THIO-CLAISEN REARRANGEMENT OF ALLYL THIENYL SULPHIDES
TETRAHEDRON, 27, 3831, 1971
- 585 72 601 MOSHER WA
REACTIONS OF 2-ACYL-3(2H)-BENZOFURANONES WITH HYDRAZINES AND CIAMINES
J. ORG. CHEM., 37, 2402, 1972
- 585 72 602 MOUTIN M
BAEYER-VILLIGER OXIDATION OF BICYCLIC KETONES. STUDY OF THE REACTION MECHANISMS
CEA-R-4222. THESIS. UNIV. OF GRENOBLE, FRANCE, DEC. 1971. 121P IN FRENCH. NTIS. COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE, FRANCE, CENTRE D'ETUDES NUCLEAIRES
- 585 72 603 MUKHERJEE R BLOCK P

THYROXINE ANALOGUES: SYNTHESIS AND NMR SPECTRAL STUDIES OF DIPHENYLAMINES
J. CHEM. SOC. C, P1596, 1971
- 585 72 604 MULLER P
OXIDATIONS OF HYDROAROMATIC SYSTEMS. 1. OXIDATION OF TROPILIDENE BY CERIC AMMONIUM NITRATE
JACS, 93, 7114, 1971
- 585 72 605 MURAOKA Y TAKITA T MAEDA K
CHEMISTRY OF BLEOMYCIN. 6. SELECTIVE CLEAVAGE OF BLEOMYCIN-A2 BY N-BROMOSUCCINIMIDE
J. ANTIBIOT., 29A, 185, 1972
- 585 72 606 MURATA I
CHEMISTRY OF PHENALENIUM SYSTEM. 4. 1H-CYCLOHEXA(4,5,6-DE)METHANE(10)ANNULEN-1-ONE. A BRIDGED ANALOG OF PHENALENDNE
TETRAHEDRON LETS, P1789, 1971
- 585 72 607 MURPHY WS SULLIVAN OF
MECHANISM OF METAL-AMMONIA REDUCTION OF CAMPHOR
J. CHEM. SOC., PERKIN TRANS., I, P999, 1972
- 585 72 608 MUSGRAVE OC WEBSTER CJ
REACTIONS OF QUINONES WITH AROMATIC ETHERS. 1. POLYALKOXYDIBENZO(FG,OP)NAPHTHACENE-1,8-QUINONES FROM CHLORANIL AND 3,3',4,4'-TETRAALKOXYBIPHENYLS. 2. POLYALKOXYTRIPHENYLENES AND -DIBENZO(FG,OP)NAPHTHACENE-1,10-QUINONES FROM CHLORANIL AND O-DIALKOXYBENZENES
J. CHEM. SOC. C, P1393 AND P1397, 1971
- 585 72 609 NABORS JB
PREPARATION AND OPTICAL ROTATORY DISPERSION STUDY OF TETRACYCLIC DITERPENOID INTERMEDIATES
TETRAHEDRON, 27, 2385, 1971
- 585 72 610 NAF F DEGEN P (1)
1. STEREOSPECIFIC OLEFIN SYNTHESIS VIA LITHIUM VINYLCPURATES. 2. NOVEL SYNTHESIS OF 2,6-DIOLEFINIC ESTERS: ETHYL AND METHYL TRANS-2-CIS-6-ODDECADIENATE. TWO BARTLETT REAR CONSTITUENTS
HELV. CHIM. ACTA, 54, 1939, 1972 AND 55, 82, 1972
- 585 72 611 NAF-MULLER R WILHELM B
UBER DIE FLUCHTIGEN ANTEILE DER ANANAS
HELV. CHIM. ACTA, 54, 1880, 1971
- 585 72 612 NAGAWA HT
N-PHENYL-1-THIO-1,2-AZETIDINEDICARBOXIMIDE, THE PHENYLTHIOHYDANTOIN OF AZETICINE-2-CARBOXYLIC ACID
J. ORG. CHEM., 37, 516, 1972

- 585 72 613 NAIR MG CHANG FC
CONVERSION OF DELTA24(28)-STEROLS TO DELTA24-ISOMERS
TETRAHEDRON LETRS. P2513. 1971
- 585 72 614 NAIR V
REACTION OF 1-AZIRINES WITH 1,3-DIPHENYLISOBENZOFURAN. RING EXPANSION TO ISOQUINOLINE,
DIHYDROISOQUINOLINE, AND AZANORCARANE DERIVATIVES
J. ORG. CHEM., 37. 2508. 1972
- 585 72 615 NAKAYAMA M
SYNTHESIS OF DESMETHYLENEECALIN
BULL. CHEM. SOC. JAPAN. 43. 3311. 1970
- 585 72 616 NARULA SP DUA AS
TRANSAMINATION REACTIONS BETWEEN HEXAMETHYLDISILAZANE AND SOME HYDRAZINES
J. INDIAN CHEM. SOC., 47. 921. 1970
- 585 72 617 NEIDLEIN R REUTER H
ZUM REAKTIONSVERHALTEN VON N-ACYL-S-CHLORISOTHIOCARBAMOYLCHLORIDEN
TETRAHEDRON. 27. 4117. 1971
- 585 72 618 NEIMAN Z
METHYLATION REACTIONS OF 6-METHYLTHIO-8-PHENYLPURINES
J. CHEM. SOC. C. P1822. 1971
- 585 72 619 NELSEN SF GILLESPIE JP (2)
1. ELECTROPHILIC REACTIONS OF 2,3-DICARBOMETHOXY-7-ISOPROPYLIODINEQUADRICYCLANE. 2. THERMAL
REARRANGEMENTS OF 1,6-(1',8'-NAPHTHALENE)-1,5-HEXAUIENES
TETRAHEDRON LETRS. P2361. 1971 AND JACS. 94. 6237. 1972
- 585 72 620 NELSON SD
REACTION OF ALPHA-NITRO KETONES WITH THE KETENE GENERATING COMPOUNDS. ISOPROPENYL ACETATE AND
ALPHA-ACETOXYSTYRENE. SYNTHESIS OF 3-ACETYL AND 3-BENZOLYL-5-SUBSTITUTED ISOXAZOLES
J. ORG. CHEM., 37. 2686. 1972
- 585 72 621 NEWKOME GR FISHEL DL
PYROLYSIS OF KETONE N,N,N-TRIMETHYLHYDRAZONIUM FLUOBORATES. EVIDENCE FOR GENESIS OF PYRIDINES
J. ORG. CHEM., 37. 1329. 1972
- 585 72 622 NEWMAN H FIELDS TL
BRIDGEHEAD BICYCLIC IMINIUM SALTS AND ENAMINES
TETRAHEDRON. 28. 4051. 1972
- 585 72 623 NG YING KIN NMK
DEAMINATION OF PYRANOSE AMINES. 1. EQUATORIAL AMINES
J. CHEM. SOC. C. P1578. 1971
- 666 72 624 NICHOLSON S
COVALENT HYDRATES AS TRANSIENT SPECIES IN HETEROCYCLIC REARRANGEMENTS. 1. RING FISSION OF SOME
5-TRIAZOLOPYRACINES
J. CHEM. SOC., PERKIN TRANS., 11. P4. 1972
- 585 72 625 NIELSEN AT
BASE CATALYZED INTERMOLECULAR CONDENSATION OF ALPHA,BETA-UNSATURATED KETONES. DIMERIZATION OF 2,4-
DIARYLIDENECYCLOBUTANONES TO 2-SPIRO(2-OXOCYCLOBUTYL)BICYCLO(3.2.0)HEPTAN-6-ONE DERIVATIVES
J. ORG. CHEM., 37. 1086. 1972
- 585 72 626 NISHIWAKI T SAITO T (1) FUJIYAMA F (2)
STUDIES ON HETEROCYCLIC CHEMISTRY. (1) IX. REACTION OF 2-(CARBONYL)-2H-AZIRINES WITH HYDRAZINE. A
NOVEL AND UNEQUIVOCAL SYNTHESIS OF 1,2,4-TRIAZIN-6-ONES. (2) XIII. CLEAVAGE OF
5-BENZYLAMINO-OXAZOLES. PHOTOPRODUCTS OF N-BENZYL-2H-AZIRINE-2-CARBOXAMIDES BY DIALKYL PHOSPHITE.
(3). EQUILIBRATION OF 2H-AZIRINE WITH VINYLNITRENE
J. CHEM. SOC. C. P2648. 1971. J. CHEM. SOC., PERKIN TRANS., 1. P1456. 1972. AND J. CHEM. SOC., CHEM.
COMMUN., P565. 1972
- 585 72 627 NO AUTHOR
AN ATTEMPT TO SYNTHESIZE DL-CULARINE BY THE DECOMPOSITION OF 2-(1,2,3,4-
TETRAHYDRO-7-METHOXY-2-METHYL-8-ISOQUINOLINOLY)-4,5-DIMETHOXY-BENZALDEHYDE
PARA-TOLUENESULFONYLHYDRAZONE UNDER ALKALINE CONDITION
J. PHARM. SOC. JAPAN. 90. 1461. 1970
- 585 72 628 NORELL JR
ORGANIC REACTIONS IN LIQUID HYDROGEN FLUORIDE. 3. CARBOXYLIC ACIDS FROM OLEFINS AND CARBON MONOXIDE.
(HYDROGEN FLUORIDE-KOCH REACTION)
J. ORG. CHEM., 37. 1971. 1972
- 585 72 629 NORMAN ROC
REACTIONS OF LEAD(IV). 26. OXIDATION OF SOME DERIVATIVES OF HYDROXYLAMINE
J. CHEM. SOC., PERKIN TRANS., 1. P1701. 1972
- 585 72 630 NORRIS WP
POLY-ALPHA,ALPHA,2,3,5,6-HEXAFLUORO-P-XYLYLENE
J. ORG. CHEM., 37. 147. 1972
- 585 72 631 NORTHINGTON DJ JONES WM
REACTION OF 3,3-DIPHENYL-1,2-TRANS-BIS(N-NITROURETHANE)CYCLOPROPANE WITH METHANOLIC SODIUM
METHOXIDE. RING OPENING BETWEEN THE NITROGEN FUNCTIONS
J. ORG. CHEM., 37. 693. 1972
- 585 72 632 NOYCE DS EVETT H
MECHANISM OF THE ACID CATALYZED DOUBLE-BOND MIGRATION IN 4-METHYL-6-PENTEN-2-ONE AND
2-CYCLOHEXEN-1-YL METHYL KETONE
J. ORG. CHEM., 37. 397. 1972
- 585 72 633 ODA M KITAHARA Y
REACTIONS OF 8-CYANOHEPTAFLUORENE WITH ENAMINES. NEW SYNTHESIS OF AZULENE DERIVATIVES
SYNTHESIS. NO. 7. 367. 1971
- 585 72 634 OFELE K KREITER CG
(1,4-DIMETHYLTETRAZOLIUM)CARBONYLFERRATE. AUSGANGSPRODUKTE FUR (1,4-DIMETHYLTETRAZOLINYLIDEN) UND
BIS(METHYLAMINO)CARBEN KOMPLEXE
CHEM. BER., 105. 529. 1972

- 585 72 635 OGAWA H
1. SYNTHESIS OF 6,7-BENZO-4,9-OXIDO(11)ANNULENONE. 2. SYNTHESIS OF (15)ANNULENONE 4,7:10,13-DIOXIDE DERIVATIVES AND THE DEMONSTRATION OF A DIAMAGNETIC RING CURRENT. 3. STUDIES ON THE DIAMAGNETIC SHIFTS IN 4:7,10:13-DIOXIDO(15)ANNULENONE SYSTEMS
TETRAHEDRON LETRS. P1793 AND P2013, AND P153, 1972
- 585 72 636 OGILVIE KK SLOVIN L WESTMORE JB
SYNTHESIS OF 8,2'-THIOANYDROGUANOSINE
CAN. J. CHEM., 50, 1098, 1972
- 585 72 637 OGURA H KIKUCHI K (2)
1. BECKMANN REARRANGEMENTS OF TETRAHYDRO- α -SANTONIN OXIMES. 2. STUDIES ON HETEROCYCLIC COMPOUNDS. XI. 1,3-DIPOLAR CYCLOADDITION OF BENZIMIDAZOLIUM YLIDE WITH ACETYLENIC COMPOUNDS
J. ORG. CHEM., 37, 519 AND 2679, 1972
- 585 72 638 OGURA I SATO K YAMAGUCHI M
STUDIES ON AZULENE. 8. REACTION OF GUAIAZULENE WITH MALEIC ANHYDRIDE OR ACRYLIC ACID
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 91, 1377, 1971
- 585 72 639 CHLER E
SYNTHESIS DES EPIDITHIO-L-PROPYL-L-PROLINANHYDRIDS
CHEM. BER., 105, 635, 1972
- 585 72 640 OMLOFF G SCHULTE EL (1) DEMOLE E (1)
1. ZUR SAURE KATALYSIERTEN CYCLISATION VON VERBINDUNGEN DER DAMASCENON-REIHE. 2. L'ODORAT ET LA FORME DES MOLECULES
HELV. CHIM. ACTA, 54, 2913, 1971 AND RECE. 2, NO. 18, XXX, 1971
- 585 72 641 OHLSEN SR TURNER S
CONVENIENT SYNTHESIS OF 3-FURIC ACID AND 3-ACETYLFURAN
J. CHEM. SOC. C, P1632, 1971
- 585 72 642 OHNO K
ORGANIC SYNTHESIS BY MEANS OF NOBLE METAL COMPOUNDS. 47. REACTION OF BUTADIENE WITH ALDEHYDES AND KETONES CATALYZED BY PALLADIUM-PHOSPHINE COMPLEXES
TETRAHEDRON, 28, 3705, 1972
- 585 72 643 OHTSUKA Y SUGIMOTO K (4)
STUDY ON OXAZOLOPYRIMIDINES. 4. PREPARATION OF 7-AMINOXAZOLO(5,4-D)PYRIMIDINE 6-OXIDE. 5. PREPARATION OF 9-SUBSTITUTED HYPOXANTHINES VIA 7-AMINOXAZOLO(5,4-D)PYRIMIDINES
BULL. CHEM. SOC. JAPAN, 43, 3305 AND 3909, 1970
- 585 72 644 ORE S TJUGUM OG
CYCLIC COMPOUNDS FROM THE REACTION OF BISPHENOL, A DIGLYCEOL ETHER WITH AMINES
ACTA CHEM. SCAND., 24, 2397, 1970
- 585 72 645 ORTIZ B
SILVER(II) OXIDE AS A REAGENT. REACTIONS WITH AROMATIC AMINES AND MISCELLANEOUS RELATED COMPOUNDS
J. ORG. CHEM., 37, 2748, 1972
- 585 72 646 OTOMASU H
SYNTHESIS OF CONDENSED QUINOXALINES. 3. 1,2-DIHYDROIMIDAZO(1,2-A)QUINOXALINES AND 1,2-DIHYDRO-3H-PYRIMIDO(1,2-A)QUINOXALINES
J. PHARM. SOC. JAPAN, 90, 1391, 1970
- 585 72 647 PAILER M STREICHE W WIEDERMA G

SYNTHESIS OF NITROPHENANTHRENE CARBOXYLIC ACIDS STRUCTURALLY RELATED TO NATURAL ARISTOLOCHIA ACIDS
MONATSH. CHEM., 103, 659, 1972
- 585 72 648 PAINE JB DOLPHIN D
ELECTROPHILIC ATTACK AT THE PORPHYRIN PERIPHERY
JACS, 93, 1080, 1971
- 585 72 649 PAKRASHI SC
STUDIES ON 4-QUINAZOLINONES. 2. SELF CONDENSATION OF ANTHRANILAMIDE
J. ORG. CHEM., 36, 642, 1971
- 585 72 650 PALMER MH MCINTYRE PS
ALKYLATION OF NITROGEN HETEROCYCLES. 1. STERIC AND ELECTRONIC EFFECTS IN REACTIONS OF CINNOLINE
TETRAHEDRON, 27, 2913, 1971
- 585 72 651 PANDIT UK VOORSPIJ WA
ALKYLATION OF DIENAMINES. MECHANISM OF N-C ALKYL GROUP TRANSFER
TETRAHEDRON LETRS, P1997, 1972
- 585 72 652 PAPPAS SP
INVESTIGATIONS ON VINYLOGOUS FRIES AND PHOTO-FRIES REARRANGEMENTS
J. ORG. CHEM., 37, 1258, 1972
- 585 72 653 PAQUETTE LA
1. PI-EQUIVALENT HETEROCYCLIC CONGENERS OF CYCLOOCTATETRAENE. SYNTHESIS AND VALENCE ISOMERIZATION OF 2-ALKOXYAZOCINES. 2. CONFIGURATIONAL STABILITIES OF STRAINED α -SULFONYL CARBANIONS. KINETICS OF BASE CATALYZED RACEMIZATION AND DEUTERIUM EXCHANGE OF REPRESENTATIVE THIETE AND THETANE DIOXIDES. 3. α -HALO SULFONES. 18. RAMBERG-BACKLUND REARRANGEMENTS AS SYNTHETIC ENTRY TO UNSATURATED PROPELLANES. 4. CYCLOADDITION OF AZIDES TO HEXAMETHYL(DEWAR BENZENE).
JACS, 93, 152, 3216, AND 4516, 1971 AND 94, 529, 1972
- 585 72 654 PAQUETTE LA HOUSER RW (1) EPSTEIN MJ (2)
1. (4,2,2)PROPILLA-3,7-DIENE. 2. THE CIS-BICYCLO(5,2,0)NONA-2,5,8-TRIENE TO CIS-BICYCLO(6,1,0)NONA-2,4,6-TRIENE REARRANGEMENT. ELUCIDATION OF RELATIVE EFFICIENCIES OF SYN-DISPOSED CYCLOPROPANE AND CYCLOBUTENE RING CLEAVAGES DURING AZO DECOMPOSITION.
JACS, 93, 4522 AND 5936, 1971
- 585 72 655 PAQUETTE LA HALUSKA RJ (1) WINGARD RE (3)
1. THERMOLYSIS OF 1,2,3,4,5,6-HEXAMETHYL-7-PHENYL-7,8,9-TRIAZATRICYCLO(4,3,0,0(2,5))NONA-3,8-DIENE. SYNTHETIC ENTRY TO THE 1,2,3-TRIAZONIN RING SYSTEM. 2. BISHOMOCONJUGATIVE α -HALO KETONE REARRANGEMENT AS A ROUTE TO BICYCLO(4,2,1)NONA-2,4,7-TRIEN-5-ONE AND BARBARALONE DERIVATIVES. 3. PYROLYTIC CONVERSION OF BICYCLO(4,2,0)OCTATRIENES TO CYCLOOCTATETRAENES. THE TETRACYCLO(3,2,0,0(2,8),0(5,7))OCTENE PATHWAY OF THERMAL BOND REORGANIZATION
JACS, 94, 534, 2155, AND 4398, 1972

- 585 72 656 PARHAM WE EGBERG DC
AN IMPROVED SYNTHESIS OF INDENES
J. ORG. CHEM., 37, 1545, 1972
- 585 72 657 PARTRIDGE MW
CYCLIC AMIDINES. 22. NOVEL ISOMERISM OF DISUBSTITUTED TRICYCLOQUINAZOLINES AND MOLECULAR
ORIENTATIONS IN CARCINOGENESIS
J. CHEM. SOC. C, P2641, 1970
- 585 72 658 PATTERSON JM
THERMAL ISOMERIZATION OF SUBSTITUTED ALLYLPYRROLES
JACS, 94, 2487, 1972
- 585 72 659 PAULSEN H KRISTINSSON O (2)
1. UNTERSUCHUNGEN ZUR STABILITÄT VON GLYKOSIDEN VON PYRROLIDIN-ZUCKERN. DIMERISIERUNG VON 4,5-
DIDESOXY-4-METHYLAMINE-L-XYLOSE. 2. CARBOXONIUMVERBINDUNGEN IN DER KOHLENHYDRATCHEMIE. XVII.
ACYLOXONIUM UMLAGERUNG VON 4-AMINO-4-DESOXY-D-GLUCOSE VERBINDUNGEN ZU DERIVATEN DER 4-AMINO-2,6-
ANHYDRO-4-DESOXY-D-ALTROSE
CHEM. BER., 105, 1515 AND 3456, 1972
- 585 72 660 PEROLD GW
REACTIVITY AND ROLE OF BETA-ARYL-ALPHA-OXOGLUTARIC ACIDS IN OXIDATION OF LEUCODRIN AND ITS
DERIVATIVES BY PERIODATE
J. CHEM. SOC. C, P3136, 1971
- 585 72 661 PETERS HW LEROM MW ROSS DL HILL ME
SYNTHESIS OF DIFLUORAMINOPOLYNITROTERPHENYL COMPOUNDS: 3,3''-BIS(DIFLUORAMINO)-2
,2'',4,4'',4'',6,6'',6''-OCTANITRO-M-TERPHENYL AND 3,3''-BIS(DIFLUORAMINO)-2
,2'',2'',4,4'',4'',6,6'',6''-NONANITRO-M-TERPHENYL
SC-CR-715136. STANFORD RESEARCH INST., MENLO PARK, CALIF., 1971. 19P. NTIS
- 585 72 662 PETERSEN S HEITZER H
REACTIONS WITH NAPHTHOQUINONE ALDEHYDES
ANN. CHEM., 740, 180, 1970 IN GERMAN
- 585 72 663 PETTIT GR JONES WR
REACTION OF 3BETA-ACETOXY-8ALPHA,9ALPHA-OXIDO-5ALPHA-LANDOSTANE WITH GRIGNARD REAGENTS
J. ORG. CHEM., 37, 2788, 1972
- 585 72 664 PILLING GM SONDHEIMER F
1. SYNTHESIS OF 1,2-DIETHYNYLCYCLOHEXENE AND ITS OXIDATION TO A TETRADEHYDRO(12)ANNULENE DERIVATIVE.
2. SYNTHESIS AND REACTIONS OF 4,5:10,11-BIS(TETRAMETHYLENE)-4,10-CYCLOTRIDECADIENE-2,6,8,12-
TETRAYN-1-ONE, A DERIVATIVE OF (13)ANNULENONE
JACS, 93, 1970 AND 1977, 1971
- 585 72 665 POISEL H SCHMIDT U
ÜBER DIE ELEKTROPHILE EINFÜHRUNG VON ALKYLGRUPPEN UND SCHWEFELFUNKTIONEN IN DEN 2,5-
DIOXO-PIPERAZIN-KERN
CHEM. BER., 105, 625, 1972
- 585 72 666 POLLAK A
PYRIDAZINES. 24. OXIDATION PRODUCTS OF SOME SIMPLE AND BICYCLIC PYRIDAZINES
J. ORG. CHEM., 35, 2478, 1970
- 585 72 667 PONSOLD K WAGNER H
DARSTELLUNG UND RINGOFFNUNG VON 3-METHOXY-15BETA,16BETA-IMINO-OSTRA-1,3,5(10)-TRIEN-17BETA-OL
Z. CHEM., 12, 265, 1972
- 585 72 668 POOLE AJ
THIENO(3,2-C)PYRIDAZINE: SYNTHESIS AND DERIVATIVES
J. CHEM. SOC. C, P1285, 1971
- 585 72 669 POTTS KT SURAPANENI CR (1) HUSAIN S (2,3)
1,2,4-TRIAZOLES. (1) XXV. EFFECT OF PYRIDINE SUBSTITUTION ON ISOMERIZATION OF SYM-TRIAZOLO(4,3-
A)PYRIDINES INTO SYM-TRIAZOLO(1,5-A)PYRIDINES. (2) XXVII. SYNTHESIS OF THIAZOLO(2,3-C)-S-TRIAZOLE
AND THIAZOLO(3,2-B)-S-TRIAZOLE SYSTEMS. (3). CYCLOADDITION REACTIONS WITH ANHYDRO-1,3-
DIMETHYL-4-HYDROXY-1,2,3-TRIAZOLIUM HYDROXIDE
J. HETEROCY. CHEM., 7, 1019, 1970 AND J. ORG. CHEM., 36, 10, 1971 AND 37, 2049, 1972
- 585 72 670 POTTS KT SORM M (1,2) MCKEDUGH D (3)
MESOIONIC COMPOUNDS. (1) XIII. 1,4-DIPOLAR-TYPE CYCLOADDITION REACTIONS OF
ANHYDRO-2-HYDROXY-1-METHYL-4-OXOPYRIDO(1,2-A)PYRIMIDINIUM HYDROXIDE. (2) XVI. 1,4-DIPOLAR-TYPE
CYCLOADDITION REACTIONS UTILIZING PYRIMIDINIUM BETAINES. (3). SYNTHESIS OF STABLE TETRAVALENT
SULFUR HETEROCYCLES
J. ORG. CHEM., 36, 8, 1971, 37, 1422, 1972, AND JACS, 94, 6215, 1972
- 585 72 671 PRATT RN
KETEN. 10. REACTION OF DIMETHYLKETEN WITH PYRIDINE N-OXIDE
J. CHEM. SOC. C, P1472, 1971
- 585 72 672 PRICE CC PIRELAHI H (9)
THIABENZENES. 7. PREPARATION AND PROPERTIES OF SOME SUBSTITUTED THIABENZENES. 8. ONE-ELECTRON
REDUCTIONS AND DISPROPORTIONATIONS OF THIOXANTHYLIUM AND 9-PHENYLTHIOXANTHYLIUM ION AND A
BITHIABENZENE ANALOG. 9. REARRANGEMENT OF 1-(P-DIMETHYLAMINOPHENYL)-2,4,6-TRIPHENYLTHIABENZENE TO
ISOMERIC THIOPYRANS
J. ORG. CHEM., 36, 791 AND 794, 1971 AND 37, 1718, 1972
- 585 72 673 PROCTOR GR ROSS WI
AZOCINE DERIVATIVES. 1. SYNTHESIS OF 1-BENZAZOCIN-6-ONE DERIVATIVES BY DIRECT CYCLISATION. 2.
SYNTHESIS OF BENZAZOCINE DERIVATIVES BY RING EXPANSION OF DIHYDROBENZAZEPINES WITH DIBROMOCARBENE
J. CHEM. SOC., PERKIN TRANS., 1, P885 AND P889, 1972
- 585 72 674 PTASHNE KA NEAL RA
REACTION OF PARATHION AND MALATHION WITH PEROXYTRIFLUOROACETIC ACID, A MODEL SYSTEM FOR MIXED
FUNCTION OXIDASES
BIOCHEM., 11, 3224, 1972
- 585 72 675 QUIN LD RORLESKE SG
SYNTHESIS OF A PHOSPHOLECARBOXYLIC ESTER
TETRAHEDRON LETS, P299, 1972

- 585 72 676 RABER DJ
USE OF ADDED SODIUM AZIDE AS A MECHANISTIC PROBE FOR SOLVOLYSIS REACTIONS
JACS. 93. 4821. 1971
- 585 72 677 RABINOVITZ M
A (9)ANNULENONE DERIVATIVE
TETRAHEDRON LETRS. P2671. 1971
- 585 72 678 RAHMAN M ROCEK J
CHROMIUM(IV) OXIDATION OF PRIMARY AND SECONDARY ALCOHOLS
JACS. 93. 5455. 1971
- 585 72 679 RALL KB VILDAVSK AI PETROV AA
TRIALKYL METAL NITROALKENYNE IN DIENE SYNTHESIS
ZH. OBSHCH. KHIM., 42. 1064. 1972 IN RUSSIAN
- 585 72 680 RAMSAY BG STOODLEY RJ
STUDIES RELATED TO PENICILLINS. 5. CONVERSION OF 6BETA-PHTHALIMIDOPENICILLANIC ACID INTO CEPHAM
DERIVATIVES. 6. CONVERSION OF PENICILLIN-V AND 6-AMINOPENICILLANIC ACID INTO CEPHAM DERIVATIVES
J. CHEM. SOC. C. P3859 AND P3864. 1971
- 585 72 681 RANDO RR
CONFORMATIONAL AND MEDIUM EFFECTS ON INTRAMOLECULAR CARBENE REACTIONS
JACS. 94. 1629. 1972
- 585 72 682 RAPP U SACHS A WUNSCH C
SKELETTUMLAGERUNGEN UNTER ELEKTRONENBESCHUSS. 5. DERIVATE DES 1-(BENZYLIDENAMINO)-BENZOTRIAZOLS. 6.
UNTERSUCHUNGEN-DIE ALKYL UND WASSERSTOFF-WANDERUNG BEI DIPHENSAURE DERIVATEN. III
TETRAHEDRON. 27. 2679. 1971 AND CHEM. BER., 105. 217. 1972
- 585 72 683 RAPPOPORT Z TA-SHMA R (1) GAL A (2) KASPI J (3)
1. NUCLEOPHILIC ATTACKS ON CARBON-CARBON DOUBLE BONDS. XIV. LOW-ELEMENT EFFECTS AND AMINE CATALYSIS
IN THE SUBSTITUTION OF 1,1-DICYANO-2-P-DIMETHYLAMINOPHENYL-2-HALOGENOETHYLENES BY ANILINES IN
ALCOHOLS. 2. VINYLIC CATIONS FROM SOLVOLYSIS. X. SNI AND NUCLEOPHILIC ADDITION-ELIMINATION ROUTES
FOR 9-(ALPHA-MALDARYLIDENE)FLUORENES. 3. XI. SOLVOLYSIS OF TRIARYLVINYL ARENESULPHONATES AND
BROMIDES
J. CHEM. SOC. B. P1461. 1971. J. ORG. CHEM., 37. 1174. 1972. AND J. CHEM. SOC., PERKIN TRANS., II.
P1102. 1972
- 585 72 684 RATCLIFFE BE HEATHCOCK CH
ACID CATALYZED REARRANGEMENT OF TRICYCLO(4.4.0.0(2,7))DECAN-3-OLS
J. ORG. CHEM., 37. 531. 1972
- 585 72 685 RAUTENSTRAUCH V
SIGMATROPIC REACTIONS IN CARBANIONS. 1. THE 5,6-DIHYDRO-2H-PYRAN-2-IDE CYCLOPROPYLENOLATE
REARRANGEMENT
HELV. CHIM. ACTA. 55. 594. 1972
- 585 72 686 REES CW YELLAND M
REACTIVE INTERMEDIATES. 18. AN N-AMINOPYRIDONE TO PYRIDAZINE REARRANGEMENT: A NEW DECARBOXYLATION
REACTION
J. CHEM. SOC., PERKIN TRANS., I. P77. 1972
- 585 72 687 REIFFERS S
SYNTHESIS OF ADAMANTANE-2,2-DICARBOXYLIC ACID AND DERIVATIVES
TETRAHEDRON LETRS. P2339. 1971
- 585 72 688 REISCH J
NOTIZ UBER DIE DARSTELLUNG DES 2,5-DIMETHYL-4-PHENYL-DELTA3-PYRROLINS
ARCH. PHARM., 305. NO. 2. 85. 1972
- 585 72 689 RETEY J
DIE SYNTHESE VON UBERBRUCKTEN COBALOXIMEN
HELV. CHIM. ACTA. 54. 2747. 1971
- 585 72 690 RHOADS SJ WATSON JM
CLAISEN REARRANGEMENT OF 2-METHYL-2-VINYL-5-METHYLENETETRAHYDROFURAN
JACS. 93. 5813. 1971
- 585 72 691 RICHARDSON WE BAKER GK JUNGLING RK COLE BC LACY LE
SYNTHESIS OF TOLUENE DIISOCYANATE DIMER (TDID)
BDX-613-506. BENDIX CORP., KANSAS CITY, MO., MAY 1971. 27P. NTIS
- 585 72 692 RICHARDSON WM HODGE VF (1)
1. NEIGHBORING PEROXIDE ANION AND 1,2-DIOXYTANE INTERMEDIATE. A KINETIC AND PRODUCT STUDY OF THE
BASIC DECOMPOSITION OF CHLORO-TERT-BUTYL HYDROPEROXIDE. 2. THERMAL DECOMPOSITION OF SUBSTITUTED 1
2-DIOXYTANES. A CONSIDERATION OF MECHANISM
JACS. 93. 3996. 1971 AND 94. 1619. 1972
- 585 72 693 RIED W WAGNER R (1) CONTE R (2) KCHL H (3) WEIDENANN P (4,5)
1. REACTIONS WITH CYCLOPENTADIENONES. XXIII. SYNTHESIS AND REACTIONS OF
TRIARYLCYCLOPENTADIENONECARBOXYLIC ESTERS. 2. SYNTHESSE UND REAKTIONEN DES 5,7-DIOXO-6,7-
DIHYDRO-5H-DIBENZO(A,C)CYCLOHEPTENS. 3. UMSETZUNGEN VON PHENYLCYCLOBUTENDION MIT C-H-ACIDEN
VERBINDUNGEN. 4. NEUARTIGE SYNTHESE VON 2-AMINO-CHINDLINEN AUS CHLORFORMAMIDINEN UND
ATHINYL-GRIGNARD VERBINDUNGEN. 5. 3-ATHOXYCARBONYL-CINCHONINSAUREAMIDE AUS ISATINEN UND
3-AMINO-ACRYLSAURE-ATHYLESTERN
ANN. CHEM., 741. 191. 1970. AND CHEM. BER., 104. 1573. 2896. 3329. AND 3341. 1971
- 585 72 694 RIED W ISENBRUCK G (2) CONTE R (3)
1. UBER DIE UMSETZUNG VON 2-HYDROXY-1-PHENYLCYCLOBUTEN-1-DION-(3,4) MIT AMINEN. 2. UBER DIE
UMSETZUNG VON 2-HYDROXY-1-PHENYLCYCLOBUTEN-1-DION-(3,4) MIT AROMATISCHEN DIAMINEN. 3.
RINGVERENGUNGEN AM DIBENZO(A,C)CYCLOHEPTENSYSTEM
CHEM. BER., 105. 325. 337. AND 799. 1972
- 585 72 695 RIJSENBR PP LOVEN R WIJNBERG JB
FUNCTIONALLY SUBSTITUTED PIPERIDINES VIA HETEROCYCLOADDITION
TETRAHEDRON LETRS. P1425. 1972
- 585 72 696 RINDONE B SCOLASTICO C
BORON TRIFLUORIDE CATALYZED REACTION OF FURAN DERIVATIVES WITH ETHANE-1,2-DITHIOL
J. CHEM. SOC. C. P3339. 1971

- 585 72 697 RIEPEL JL
ETUDE DES PETITS CYCLES. 26. SYNTHÈSE ET PROPRIÉTÉS SPECTRALES DU PENTACYCLOPROPYLIDÈNE ((5)ROTANE)
ET DE COMPOSÉS POLYCYCLOPROPYLSPIRANIQUES DE LA SÉRIE
TETRAHÉDRON. 27. 2431. 1971
- 585 72 698 ROBERTS RM GIBSON TL
THE ISOTOPIC REARRANGEMENT OF N-PROPYL-ALPHA-C(13)-BENZENE
JACS. 93. 7340. 1971
- 585 72 699 ROBINSON DM SHAW G
PURINES, PYRIMIDINES, AND IMIDAZOLES. 39. FORMATION OF SOME 5-AMINOIMIDAZOLE-4-CARBOXYLIC ACID
DERIVATIVES FROM ETHYL ALPHA-AMINO-ALPHA-CYANOACETATE
J. CHEM. SOC., PERKIN TRANS. 1. P1715. 1972
- 585 72 700 ROBINSON JB MUNT RJ
PREPARATION AND CHARACTERIZATION OF THE TROPIC ACID ESTERS OF TROPAN-3BETA-OL. GRANATAN-3ALPHA-OL.
AND GRANATAN-3BETA-OL
J. PHARM. PHARMACOL. SUPPL. 22. 295-335. 1970
- 585 72 701 RODRICKS JV RAPOPORT H
SYNTHESIS OF CYCLIC GUANIDINES
J. ORG. CHEM. 36. 46. 1971
- 585 72 702 ROEHM JN HADLEY JG MENZEL DB
OXIDATION OF UNSATURATED FATTY ACIDS BY OZONE AND NITROGEN DIOXIDE
ARCH. ENVIRON. HEALTH. 23. 142. 1971
- 585 72 703 ROITMAN JN CRAM DJ
ELECTROPHILIC SUBSTITUTION AT SATURATED CARBON. 45. DISSECTION OF MECHANISMS OF BASE CATALYZED
HYDROGEN-DEUTERIUM EXCHANGE OF CARBON ACIDS INTO INVERSION, ISOINVERSION, AND RACEMIZATION
PATHWAYS. 46. CROWN ETHERS ABILITY TO ALTER ROLE OF METAL CATIONS IN CONTROL OF STEREOCHEMICAL
PAIR OF CARBANIONS
JACS. 93. 2225 AND 2231. 1971
- 585 72 704 ROME DW JOHNSON BL
EXO-TRICYCLO(3.2.1.0(2,4))OCT-5-ENE EXO-OXIDE
TETRAHÉDRON. 27. 2271. 1971
- 585 72 705 RORNAN A PARKER VO
ANODIC OXIDATION OF PHENOLIC COMPOUNDS. 2. PRODUCTS AND MECHANISM OF THE ANODIC OXIDATION OF
HINDERED PHENOLS
J. CHEM. SOC. C. P3214. 1971
- 585 72 706 ROSENTHAL A KAN G
HYDROFORMYLATION OF 5,6-DIDEOXY-1,2-D-ISOPROPYLIDENE-ALPHA-D-XYLOHEX-5-ENOFURANOSE
J. ORG. CHEM. 36. 592. 1971
- 585 72 707 ROSHAGEN H
EINE NEUE SYNTHÈSE VON 2-IMINO-3,4-DIHYDRO-2H-1,3-BENZOTHAZINONEN-(4) UND 4-IMINO-3,4-DIHYDRO-2H-1
-3-BENZOTHAZINONEN-(2)
CHEM. BER. 104. 3757. 1971
- 585 72 708 ROTH CA
SILYLATION OF ORGANIC CHEMICALS
I AND EC PRODUCT RES. DEVELOP. 11. 134. 1972
- 585 72 709 ROTH M
SULFIDKONTRAKTION VIA ALKYLATIVE KUPPLUNG: EINE METHODE ZUR DARSTELLUNG VON DICARBONYLDERIVATEN
HELV. CHIM. ACTA. 54. 710. 1971
- 585 72 710 ROTHMAN ES
ENOL ESTERS. 15. SYNTHESIS OF HIGHLY HINDERED ESTERS VIA ISOPROPENYL ESTER INTERMEDIATES
J. ORG. CHEM. 37. 3551. 1972
- 585 72 711 ROZWADOWSKA MD APSIMON JW
RHOEAGENINE AND RHOEADINE. 3. HOFMANN DEGRADATION OF RHOEAGENINE METHIODIDE
TETRAHÉDRON. 28. 4125. 1972
- 585 72 712 RUCHARDT C BOCK H (1) PANTKE R (2)
1. DARSTELLUNG UND THERMOLYSE VON ALPHA-ARYLOXY UND
ALPHA-ARYLMERCAPTO-PERESSIGSÄURE-TERT-BUTYLESTERN. 2. DARSTELLUNG UND THERMOLYSE VON
O-TERT-BUTYLPEROXYCARBONYLKETOXINEN
CHEM. BER. 104. 577 AND 3456. 1971
- 585 72 713 RUEPPEL ML RAPOPORT H
OXIDATION OF ALPHA-KETOACYL DERIVATIVES. REARRANGEMENT OF PYRUVATES TO MALONATES
JACS. 94. 3877. 1972
- 585 72 714 RUSSELL GA
ALIPHATIC SEMIQUINONES. 19. POLYCYCLIC DERIVATIVES OF CYCLOBUTANESEMIQUINONE
JACS. 94. 1693. 1972
- 585 72 715 RYAN RP
A NOVEL INDOLE REARRANGEMENT. INTERCONVERSION OF 2-(3-INDOLYL)-1-(2-(1-PYRROLINYL))INDOLES AND 2
-(3,5,6-TETRAHYDRO-5-(3-INDOLYL)-1H-PYRROLO(2,1-B)(1,3)BENZOCIAZEPINES
TETRAHÉDRON. 27. 2325. 1971
- 585 72 716 SAEGUSA T MATSUMOTO S MOTOI M (1) SHIOTA T (2)
1. STEREOCHEMISTRY OF RING-OPENING POLYMERIZATION OF 2-METHYL-7-OXABICYCLO(2.2.1)HEPTANE. 2.
RING-OPENING POLYMERIZATION OF OXEPANE
MACROMOLECULES. 5. 233. 1972 AND POLYMER J. 3. 40. 1972
- 585 72 717 SAFE S PENNEY C
PREPARATION OF CIS AND TRANS-ALPHA-D-3-ALKENOIC ACIDS
AD-739 624. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
22151. 1970
- 585 72 718 SAITO Y
SYDNONE AND SYDNONIMINE. A NOVEL CONVERSION TO PYRAZOLIN-5-ONE
TETRAHÉDRON LTRS. P2893. 1971

- 585 72 719 SAKAI M HARRIS DL WINSTEIN S
1. TRICYCLO(6.1.0.0(4.9))NONA-2,6-DIENE (HOMOSEMIBULLVALENE). WOLFF-KISHNER REDUCTION OF BICYCLO(4.2.1)NONA-2,4.. 2. STUDIES ON OXIDATION OF HOMOSEMIBULLVALENE (TRICYCLO(6.1.0.0(4.9))NONA-2,6-DIENE). PHOTOSENSITIZED OXYGENATION
J. CHEM. SOC., CHEM. COMMUN., P861, 1972 AND J. ORG. CHEM., 37, 2631, 1972
- 585 72 720 SAKAMOTO M TOMIMATSU Y
REACTION OF CONJUGATED SYSTEMS CONTAINING NITROGEN. 2. REACTION OF CONJUGATED SCHIFF BASE WITH DIMETHYL ACETYLENEDICARBOXYLATE. 3. REACTION OF CONJUGATED SCHIFF BASE WITH DIPHENYL KETENE
J. PHARM. SOC. JAPAN, 90, 1339 AND 1386, 1970 IN JAPANESE
- 585 72 721 SARANTAKIS D
OXIDATION OF SUBSTITUTED CARBODIIMIDES AND UREAS
TETRAHEDRON, 27, 2573, 1971
- 585 72 722 SARASWATHI TV SRINIVASAN VR
A NOVEL SYNTHESIS OF 1,2,4-TRIAZINES
TETRAHEDRON LETS, P2315, 1971
- 585 72 723 SAKAI T
1. TETRAZOLO-AZIDO ISOMERIZATION IN HETEROAROMATICS. 1. SYNTHESSES AND REACTIVITIES OF SOME TETRAZOLOPOLYAZINES. 2. ORIENTATION IN THE 1,3-DIPOLAR CYCLOADDITION REACTIONS OF HETEROAROMATIC NITROGEN METHYLIDES WITH DIPOLAROPHILES. 3. A FACILE SYNTHESIS OF MONO-OXA AND AZA-BIRD-CAGE COMPOUNDS VIA TRANSANNULAR CYCLIZATION (1)
J. ORG. CHEM., 36, 446 AND 813, 1971 AND TETRAHEDRON LETS, P2651, 1971
- 585 72 724 SAKAI T
1. STUDIES ON CHRYSANTHEMIC ACID. VIII. SYNTHESIS OF 1-VINYL-2-ISOBUTENYL- AND 1,2-DIISOBUTENYL-3,3-DIMETHYLCYCLOPROPANES. THEIR THERMAL BEHAVIOR IN COMPARISON WITH CIS-2,2-DIMETHYL-3-ISOBUTENYLCYCLOPROPYL ISOCYANATE AND CIS-2,2-DIMETHYL-3-ISOBUTENYLCYCLOPROPANECARBOXALDEHYDE. 2. STUDIES ON REACTIONS OF ISOPRENOIDS. XVII. CYCLOADDITION REACTIONS OF NORBORNADIENE WITH SOME UNSYMMETRICALLY SUBSTITUTED DIENOPHILES. COMPETITIVE IONIC ADDITIONS WITH HOMO-DIELS-ALDER REACTIONS
J. ORG. CHEM., 37, 466 AND 2317, 1972
- 585 72 725 SATO Y NAGAI M
DEGRADATION OF SOLASODINE
J. ORG. CHEM., 37, 2629, 1972
- 585 72 726 SAUERS RR HU CK (1)
1. STEREOCHEMISTRY OF THE ZINC-ACETIC ACID DEBROMINATION OF ALPHA-BROMOCAMPHOR. 2. SYNTHESIS AND CHEMISTRY OF SOME 2-SUBSTITUTED TRICYCLO(3.3.0.0(3.7))OCTANE DERIVATIVES
J. ORG. CHEM., 36, 1153, 1971 AND 37, 537, 1972
- 585 72 727 SAVOIE JY BRASSARD P
PREPARATION DE QUELQUES CYCLOHEXENE-2-DIONES-1,4 ET DE LEURS DERIVES
CAN. J. CHEM., 49, NO. 21, XXX, 1971
- 585 72 728 SCHADEN G
NOTIZ UBER DIE OXYDATION VON 5-AZA-AZULENEN
CHEM. BER., 105, 3128, 1972
- 585 72 729 SCHARF HD KUSTERS W
DIENSYNTHESSEN MIT DICHLORVINYLENCARBONAT
CHEM. BER., 105, 564, 1972
- 585 72 730 SCHOFIELD K
1. ACID CATALYZED REARRANGEMENT OF 2,3-DIHYDROBENZO(B)FURAN-2-SPIRO-1'-CYCLOHEXA-2',5'-DIEN-4'-ONE AND 3,4-DIHYDRO-2H-BENZO(B)PYRAN-2-SPIRO-1'-CYCLOHEXA-2',5'-DIEN-4'-ONE. 2. PHENOL OXIDATION. FORMATION OF BENZOFURAN AND 2,3-DIHYDROBENZOFURAN DERIVATIVES BY OXIDATION OF 1-(2-HYDROXYPHENYL)-2-(4-HYDROXYPHENYL)ETHANES
J. CHEM. SOC. C, P2543, 1970 AND P2834, 1971
- 585 72 731 SCHOLLKO U SCHRODER R
1-FORMYLAMINO-1-ARYLSULFONYLALKENE AUS ALPHA-METALLIERTEN ISOCYANMETHYL-ARYLSULFONEN UND CARBONYLVERBINDUNGEN; UMWANDLUNG EINER CARBONYLVERBINDUNG IN DIE NACHSTOHERE CARBONSAURE ANGEW. CHEM., 84, NO. 7, 289, 1972
- 585 72 732 SCHONBERG A MAMLUK M
UBER DIE EINWIRKUNG VON BENZOL AUF 2,3-DIHYDROPHENALENTRION-(1,2,3) BEI GEGENWART VON KONZ. SCHWEFELSAURE
CHEM. BER., 105, 1562, 1972
- 585 72 733 SCHRODER G
DARSTELLUNG UND EIGENSCHAFTEN VON 9-CHLOR, 10-METHYL, UND 9-METHYL-BICYCLO(6.2.0)DECAPENTAEN-(1+3+5+7+9)
CHEM. BER., 105, 1072, 1972
- 585 72 734 SCHULTE KE RUCKER G FELDKAMP J
BETA-METHYL VERZWEIGTE ALPHA,BETA-UNGESATTIGTE CARBONSAUREN DURCH NUCLEOPHILE ADDITION VON BETA-DICARBONYLVERBINDUNGEN AN MONOSUBSTITUIERTE ACETYLENE
CHEM. BER., 105, 24, 1972
- 585 72 735 SCHULTE-ELTE KH GADOLA M
SYNTHESE UND CHIRALITAT DER STEREOISOMEREN ACHILLENE, ACHILLENDLE, UND HYMENTHERENE
HELV. CHIM. ACTA, 54, 1095, 1971
- 585 72 736 SCHUMACHER R
2BETA,13-OXIDO-APOTRICHOTHECANE: SYNTHESIS, CHEMISCHE, UND PHYSIKALISCHE EIGENSCHAFTEN
HELV. CHIM. ACTA, 54, 2080, 1971
- 585 72 737 SCHUPBACH M
UMSETZUNG VON 3-O-ACETYL-14-ANHYDRODIGITOXIGENIN UND 3-O-ACETYLDIGITOXIGENIN MIT OSMIUMTETROXID
HELV. CHIM. ACTA, 54, 2007, 1971
- 585 72 738 SCHWIEDE U ARNOLD W OBERHANS WE
SYNTHESEN IN DER CARDINOID-REIHE. 23. EIN BEITRAG ZUR CHROMSAURE-OXYDATION VON POLYENE
HELV. CHIM. ACTA, 54, 2447, 1971

- 585 72 739 SELIG W
ADDUCTS OF 1,4-DIDEOXY-1,4-DINITRO-NEO-INOSITOL AND OF 2,3-O-ISOPROPYLIDENE-1,4-DINITRO-NEO-INOSITOL
UCRL-51064. CALIFORNIA UNIV., LIVERMORE, LAWRENCE RADIATION LAB., JUNE 1971. 22P. NTIS
- 585 72 740 SENDA S HIROTA K YANG G (2) NOTANI J (3,4)
PYRIMIDINE DERIVATIVES AND RELATED COMPOUNDS. (1) 11. SYNTHESIS OF BUCLOMIDE'S RELATED COMPOUNDS. VI.
(2) 12. VILSMEIER REACTION OF BARBITURIC ACID DERIVATIVES AND URACIL DERIVATIVES. (3) 16.
SYNTHESIS OF 1,3-DISUBSTITUTED-5-CYANOURACIL DERIVATIVES AND RELATED COMPOUNDS. (4) 17. HYDROLYSIS
OF 5-CYANOURACIL DERIVATIVES
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 91, 1367 AND 1372, 1971 AND CHEM. PHARM. BULL. (TOKYO), 20,
1380 AND 1389, 1972
- 585 72 741 SHAFIEE A LALEZARI
LEAD TETRAACETATE OXIDATION OF GUANYLHYDRAZONES. A NOVEL REARRANGEMENT
J. ORG. CHEM., 37, 2052, 1972
- 585 72 742 SHAH VP
HETEROCYCLIC RING-CLOSURE REACTIONS. 4. REACTION OF S,S'-DIALKYL DITHIOKALDIIMIDATES WITH
THIOCYANIC ACID
J. ORG. CHEM., 37, 2155, 1972
- 585 72 743 SHAHAK I
A NEW BICYCLIC SYSTEM. N,N'-DIARYL-2,5-DIAZA-3,6-DIOXOBICYCLO(2.2.2)OCTANES
J. ORG. CHEM., 36, 501, 1971
- 585 72 744 SHAVYRIN VV ZHURAVLE LV
SYNTHESIS IN PHENOTHIAZINE SERIES. 33. NEW SYNTHESIS OF 2,3-DIHYDROTHIAZOLO(4,5-
B)PHENOTHIAZINETHIONE-2
KHIM. GETEROT. SOEDIN., P38, 1972 IN RUSSIAN
- 585 72 745 SHEEHAN JC GIZIEC FS
4,5-DIPHENYL-4-OXAZOLIN-2-ONE RING SYSTEM AS AN AMINE PROTECTING GROUP
JACS, 94, 6561, 1972
- 585 72 746 SHEN KW
SYNTHESIS AND REACTIONS OF 2,3,7,8-TETRA-AZAHXACYCLO(7.4.1.0(4,12).0(6,11).0(10,13))TETRADECA-2,7-
DIENE
JACS, 93, 3064, 1971
- 585 72 747 SHIBAIEV VK KOCHETKOV NK KUSOV II (1) ELISEEVA GI (2)
1. NEW SYNTHESIS OF ALPHA-D-GLUCOPYRANOSYLPHOSPHATE-6-H(3). 2. SYNTHESIS OF 5-AMINOURIDINE-5'-
PHOSPHATE AND 5-METHOXYURIDINE-5'-PHOSPHATE
DOKL. AKAD. NAUK SSSR, 203, 612 AND 860, 1972
- 585 72 748 SHIRAFUJ T YAMAMOTO Y NOZAKI H
CATALYTIC DECOMPOSITION OF DIAZO COMPOUNDS BY METAL SALTS. (DIPHENYLDIAZOMETHANE, BENZOPINACOL,
TETRAPHENYLETHYLENE)
TETRAHEDRON, 27, 8353, 1971
- 585 72 749 SHOPPEE CW
TETRAMETHYL-2,2,4,4-TETRAMETHOXYCARBONYLCYCLOBUTANE-1,3-DIMALCNATE
J. CHEM. SOC. C, P3679, 1971
- 585 72 750 SHYAMSUNDER RAO Y FILLER R
NEW SYNTHESIS OF SYMMETRICAL DIARYLMETHANES
J. ORG. CHEM., 36, 1447, 1971
- 585 72 751 SICA D
OXIDATIVE COUPLING OF 2H-1,4-THIAZINE DERIVATIVES
J. HETEROCY. CHEM., 7, 1143, 1970
- 585 72 752 SIEJA JB
SYNTHESIS OF CYCLOBUTENONE
JACS, 93, 2481, 1971
- 585 72 753 SINGH M MATHUR RB (1) BOSE AK (1) LAL K (2)
1. SCHMIDT REACTION WITH 6-AZA-8-HOMO-SALPHA-CHOLESTANE-3,7-DIONE. 2. PREPARATION OF 2,3-
DIHYDROTHIAZLO(2,3-A)ISOQUINOLINIUM SALTS AND THEIR REACTIONS WITH COMPLEX METAL HYDRIDES
INDIAN J. CHEM., 10, 240, 1972 AND J. CHEM. SOC., PERKIN TRANS., I, P1799, 1972
- 585 72 754 JINJLER AC CRAM DJ
1. STUDIES IN STEREOCHEMISTRY. XLII. A HIGHLY STRAINED PHENONIUM ION INCORPORATED IN THE (2.2)
PARACYCLOPHANE SYSTEM. 2. MACRO RINGS. XLVI. SOLVOLYSIS WITH RETENTION OF CONFIGURATION AND CIS
POLAR ADDITIONS IN THE SIDE-CHAIN CHEMISTRY OF (2.2)PARACYCLOPHANE
JACS, 93, 4443, 1971 AND 94, 3512, 1972
- 585 72 755 SISO D K
HYDROBORATION AND THERMAL ISOMERIZATION OF UNSATURATED ALCOHOLS
J. ORG. CHEM., 37, 733, 1972
- 585 72 756 SKORIANETZ W KOVATS E
1. EINE NEUE SYNTHESE VON 3,6-DIALKYL-1,2,4,5-TETRAZINEN. 2. DIHYDRO UND TETRAHYDRO DERIVATE DES 3,
6-DIMETHYL-1,2,4,5-TETRAZINS
HELV. CHIM. ACTA, 54, 1922, 1971 AND 55, 1404, 1972.
- 585 72 757 SKRABAL P ZOLLINGER H
11,12-DIHYDRO-12-HYDROXYTRIBENZO(C,G,M)-1,2,5,6,9,12-HEXA-AZA-CYCLOTETRADECINE: A NEUTRAL
HOMOCAROMATIC(14)ANNULENE MACROCYCLIC AZA COMPOUNDS. I.
HELV. CHIM. ACTA, 54, 1069, 1971
- 585 72 758 SLUSARCZUK GM JOULLIE MM
SYNTHESIS AND PROPERTIES OF FLUORINE CONTAINING HETEROCYCLIC COMPOUNDS. 6. REACTIONS OF FLUORINATED
3-KETO ESTERS WITH AMINES
J. ORG. CHEM., 36, 37, 1971
- 585 72 759 SWISSMAN EE CORBETT MD
SYNTHESES OF 4-ACYLAMIDO-1,4-BENZOXAZINE-2,3-DIONES AND 4-(P-TOLUENESULFONAMIDO)-1,4-BENZOXAZINE-2,
3-DIONE
J. ORG. CHEM., 37, 1704, 1972

- 585 72 760 SMITH KM
1. FISCHER'S SYNTHESIS OF AETIOPORPHYRIN-I. A REINVESTIGATION. 2. PORPHYRINS AND BILE PIGMENTS FROM
BROMINATED PYROMETHENES
TETRAHEDRON LTRS. P2325, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P1471, 1972
- 585 72 761 SMITH RM
DECACHLOROTETRACYCLO(5.2.1.0(2.6).0(3.10))DECA-4,8-DIENE. A NEW TETRACYCLIC RING SYSTEM
JACS. 93. 3621, 1971
- 585 72 762 SMULA V MANSKE RH RODRIGO R
UNUSUAL OPPENAUER OXIDATION OF (+OR-)-OPHIOCARPINE
CAN. J. CHEM., 50. 1544, 1972
- 585 72 763 SNATZKE G KINSKY K (1,2) WOLFRAM B (3) KLEIN H (4)
CIRCULARDICHROISMUS. (1) 48. CHIROPTISCHE EIGENSCHAFTEN EINIGER SUBSTITUIERTER STEROIDKETONE MIT
BICYCLONONANSTRUKTUR. (2) 49. VICINALEFFEKT BEI 4,7-DIKETOSTEROIDEN. (3) 50. CHIROPTISCHE
EIGENSCHAFTEN VON THIAADAMANTAN DERIVATEN. (4) 52. SYNTHESE UND CIRCULARDICHROISMUS VON EINIGEN
BETA-SUBSTITUIERTEN ADAMANTANEN. III.
TETRAHEDRON. 28. 289, 295, AND 655, 1972 AND CHEM. BER., 105. 244, 1972
- 585 72 764 SNATZKE G ELGAMAL M (1) HANI A (1) LABLER L (2) TAMM C (2)
WERNER ZA (3) SZILAGYI L (3)
1. SYNTHESIS OF SOME 13BETA,28-EPOXYLOEANE DERIVATIVES. 2. CIRCULARDICHROISMUS EINIGER
A-NOR-STEROIDE UND VERWANDTER VERBINDUNGEN. 3. CHIROPTISCHE EIGENSCHAFTEN VON
ZUCKER-BENZTHIAZOLAND BENZTHIAZOLIN DERIVATEN
ANN. CHEM., 75. 190, 1972. HELV. CHIM. ACTA, 55. 886, 1972. AND TETRAHEDRON. 28. 4197, 1972
- 585 72 765 SNIECKUS VA
STERESELECTIVE SYNTHESSES OF ISOQUINNUCLIDONES. I.
J. ORG. CHEM., 37. 2845, 1972
- 585 72 766 SOSNOVSKY G
REACTIONS OF TERT-BUTYL PERESTERS. 11. REACTIONS OF ALKYL TERT-BUTYLPEROXY ALKYLPHOSPHONATES,
DIALKYL TERT-BUTYLPEROXY PHOSPHATES, AND OTHER PHOSPHORUS ESTERS WITH BENZENE AND ALUMINUM
CHLORIDE, AND REACTIONS OF DIALKYL TERT-BUTYLPEROXY PHOSPHATES WITH PHENYLMAGNESIUM BROMIDE
J. ORG. CHEM., 37. 2267, 1972
- 585 72 767 SPENCE TWM TENNANT G
CHEMISTRY OF NITRO-COMPOUNDS. 1. ACID CATALYSED RING-OPENING REACTIONS OF SUBSTITUTED
O-NITROPHENYLETHYLENE OXIDES INVOLVING PARTICIPATION BY THE NITRO-GROUP. 2. SCOPE AND MECHANISM OF
BASE CATALYSED TRANSFORMATIONS OF SOME NN-DISUBSTITUTED O-NITROBENZAMIDES
J. CHEM. SOC. C, P3712, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P97, 1972
- 585 72 768 SPICHTIG AM VASELLA A
SYNTHESE VON ALPHA-METHYLSORDAROSE
HELV. CHIM. ACTA, 54. 1191, 1971
- 585 72 769 SPRINGER JM
REACTION OF 1-TETRALONES WITH PALLADIUM/CARBON
J. ORG. CHEM., 36. 686, 1971
- 585 72 770 SPURLOCK LA
NATURE OF CARBONIUM ION. 8. CYCLOALKYL CATIONS FROM THIOCYANATE ISOMERIZATIONS. 9. THE
2-OXA-6-NORBORNYL CATION
J. ORG. CHEM., 37. 1162, 1972 AND JACS. 94. 2707, 1972
- 585 72 771 SRIVASTAVA RM
BASE CATALYZED DEHYDROHALOGENATION OF TWO ISOMERIC 3,4-DIBROMO-2-ETHOXYTETRAHYDROPYRANS
J. ORG. CHEM., 37. 190, 1972
- 585 72 772 SROGL J
EXPERIMENTS IN FURAN SERIES. 11. REDUCTION OF ALKOXYLATION PRODUCTS OF FURAN
COLLECT. CZECH. CHEM. COMMUN., 35. 3462, 1970
- 585 72 773 STEFANOVIC M
PREPARATION OF 17-KETO(OR HYDROXY)-5'-ALKYL(OR ARYL)-ESTRA-1(10),4-DIENO(3,2-B)FURANS
TETRAHEDRON LTRS. P3311, 1971
- 585 72 774 STEGLICH W HOFLE G
ACYLIERUNG VON DELTA2-OXAZOLINONEN-(5) MIT CARBONSÄUREANHYDRIDEN/PYRIDIN
CHEM. BER., 104. 3644, 1971
- 585 72 775 STEINFELS MA DREIDING AS
ZUR REAKTIONSWEISE VON ENAMINEN MIT CYCLOPROPENONEN. 1. EINSATZ VON CYCLOODECANON-ENAMIN
HELV. CHIM. ACTA, 55. 702, 1972
- 585 72 776 STEVENS MFG
TRIAZINES AND RELATED PRODUCTS. 10. REEXAMINATION OF REACTION BETWEEN BENZIL AND DIAMINO GUANIDINE
NITRATE
J. CHEM. SOC., PERKIN TRANS., I, P1221, 1972
- 585 72 777 STOCKEL K SONOHEIM F
UNSATURATED MACROCYCLIC COMPOUNDS. 88. MONOXYHYDRO(24)ANNULENE
J. CHEM. SOC., PERKIN TRANS., I, P355, 1972
- 585 72 778 STORCK W MANECKE G (1) GRIECO PA (2)
1. ZUR KENNNTNIS VON 2,3-BIS(NAPHTHOCHINON-(1,4)-YL-(2))BUTANEN. 2. OLEFIN PARTICIPATION IN ACID
CATALYZED OPENING OF ARYL CYCLOPROPANES. IV. CYCLIZATION OF
5-METHYL-6-ENDO-(TRANS-3-PENTENYL)BICYCLO(3,1,0)HEXAN-2-ONE
CHEM. BER., 104. 1207, 1971 AND TETRAHEDRON LTRS. P1807, 1971
- 585 72 779 STROJNYN EJ
OXIDATION OF 2-METHOXYETHANOL TO METHOXYACETIC ACID BY NITRIC ACID SOLUTIONS
JACS. 93. 1171, 1971
- 585 72 780 STUCKWISCH CG
ARYLMETHYLAMINE SYNTHESIS BY STEPHEN REDUCTION OF AROYL CYANIDES
J. ORG. CHEM., 37. 318, 1972

- 585 72 781 SUCROW W RICHTER W SCHUBERT B (2)
1. STEREOCHEMIE DER CLAISEN-UNTLAGERUNG MIT 1-DIMETHYLAMINO-1-METHOXY-PROPEN-(1). 2. STEREOCHEMIE
EINER CLAISEN-UNTLAGERUNG IN DER STERIN-SEITENKETTE
CHEM. BER., 104, 3679 AND 3689, 1971
- 585 72 782 SUGA T IMAMURA K SHISHIBO T (1)
1. STEREOCHEMICAL STUDIES OF MONOTERPENE COMPOUNDS. XIV. ROTATIONAL CONFORMATION OF ACETYL AND
FORMYL GROUPS OF MONOTERPENE ALPHA,BETA-UNSATURATED CARBONYL COMPOUNDS. 2. OXIDATION OF (+)-
OCCIDENTALOL WITH T-BUTYL CHROMATE
BULL. CHEM. SOC. JAPAN, 45, 545, 1972 AND J. CHEM. SOC., PERKIN TRANS., I, P952, 1972
- 585 72 783 SUGIYAMA T KOBAYASH A YAMASHIT K
CHEMICAL STUDIES ON PYRETHROIDS. 2. SYNTHESIS AND TOXICITY OF ALLETHRIN-II ISOMER
AGR. BIOL. CHEM. (TOKYO), 36, 569, 1972
- 585 72 784 SWAN GA WILCOCK JD (2,3)
STUDIES ON THE REACTION OF BENZOYL PEROXIDE WITH NN-DISUBSTITUTED AROMATIC AMINES AND RELATED
COMPOUNDS. (1) V. PREPARATION OF 5,11-DISUBSTITUTED 5,6,11,12-TETRAHYDROPHENOMAZINES FROM
ALPHA-DIAMINES. (2) VI. SOME ATTEMPTS TO EFFECT O-HYDROXYLATION IN THE STRYCHNINE SERIES. (3). 10
11-DIDEHYDROSTRYCHNIDINE
J. CHEM. SOC. C, P2880, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P 1429 AND 1068, 1972
- 585 72 785 TABUSHI I
1. DICHLOROCARBENE CHLORINATION OF ALCOHOLS IN AN ALKALINE MICELLE. 2. REGIO AND STEREOSPECIFIC(2P1
+ 2PI + 2SIGMA) CYCLOADDITION REACTION OF QUADRICYCLANE. 3. PREPARATIONS AND PROPERTIES OF
TETRAKIS(2,2,2)PARACYCLOPHANE DERIVATIVES
JACS, 93, 1820, 1971, 94, 787, 1972, AND TETRAHEDRON, 28, 3381, 1972
- 585 72 786 TAKAMIZ A SATO H
STUDIES ON PYRIMIDINE DERIVATIVES AND RELATED COMPOUNDS. 74. REACTION OF THIAMINE ANALOGUES WITH
DIALKYL BENZYLPHOSPHONATES
YAKUGAKU ZASSHI (J. PHARM. SOC. JAPAN), 92, 27, 1972
- 585 72 787 TAMURA Y
INTRAMOLECULAR 1,5-CYCLIZATION OF VLIDES. SYNTHESIS OF PYRAZOLO(1,5-A)PYRIDINES AND INDOLIZINES
TETRAHEDRON, 28, 21, 1972
- 585 72 788 TANAKA K YOSHIKOS A
CYCLOADDITION OF ISOPROPYLCYCLOPENTADIENES AND DICHLOROKETENE, AND SOLVOLYSIS OF ADDUCTS. SYNTHESIS
OF BETA-THUJAPLICIN (HINOKITIDOL)
ILIKHILUUN: 218 4809; 1971
- 585 72 789 TANAKA T
SOME REACTIONS OF 1H-PYRROLO(3,4-B)QUINOLINE DERIVATIVES
TETRAHEDRON LTRS, P2803, 1971
- 585 72 790 TANIDA H TSUSHIMA T
1. SECONDARY BETA-DEUTERIUM EFFECTS ON RATES OF SOLVOLYSES OF BENZONORBORNEN-2(EXO) AND 2(ENDO)-YL
P-BROMOBENZENESULFONATES. 2. REACTION OF TROPONE WITH QUADRICYCLANE. AN EXAMPLE OF (6PI + 2SIGMA +
2SIGMA) CYCLOADDITION
JACS, 93, 3011, 1971 AND TETRAHEDRON LTRS, P385, 1972
- 585 72 791 TANNY SR
SYNTHESIS AND THERMAL REARRANGEMENTS OF THE 2-AZABICYCLO(3.1.0)HEX-3-ENE RING SYSTEM
JACS, 94, 6495, 1972
- 585 72 792 TARRANT P
PREPARATION AND REACTIONS OF SOME TRIFLUOROVINYLCARBINOLS CONTAINING PERHALOMETHYL GROUPS
J. ORG. CHEM., 35, 2742, 1970
- 585 72 793 TAYLOR EC
NOVEL REACTION OF 1,3-DIMETHYL-6-AMINO-5-NITROSOURACIL WITH LEAD TETRAACETATE
J. ORG. CHEM., 37, 1601, 1972
- 585 72 794 TAYLOR KG
CARBENIDS WITH NEIGHBORING HETEROATONS. 3. ELECTROPHILIC REACTIONS OF TWO
ALPHA-HALOXYCLOPROPYLLITHIUM COMPOUNDS
J. ORG. CHEM., 37, 2436, 1972
- 585 72 795 TAYLOR PD
A MECHANISM STUDY OF OLEFIN ISOMERIZATION AND HYDROGENATIONS CATALYZED BY COBALT HYDROCARBONYL
THESIS, UNIV. OF CINCINNATI, OHIO, UNIV. MICROFILMS ORDER NO. 71-1548, DISS. ABS., 318, 7, 3935,
1971
- 585 72 796 TEICHMAN B HIMMELSP K WESTPHAL O
DARSTELLUNG VON 1-(M-NITROPHENYL)-1H-PYRAZOL(3,4-B)CHINOXALINEN (1-(M-NITROPHENYL)-FLAVAZOLEN)
J. PRAKT. CHEM., 313, 940, 1971
- 585 72 797 THALLER V TURNER JL
NATURAL ACETYLENES. 34. SYNTHESIS OF C11 ENE-DIYN-ENE ALCOHOLS, ALDEHYDES, ACIDS, AND ESTERS
J. CHEM. SOC., PERKIN TRANS., I, P552, 1972
- 585 72 798 THIES RW
1. SYNTHESIS OF TETRACYCLO(11.1.0.0(3,5).0(7,9))TETRADECAN-11-OLS. POSSIBLE HEPTAHOMOTROPYLIUM ION
PRECURSORS. 2. SILOXY-COPE(1) AND OXY-COPE(2) REARRANGEMENTS OF CIS-1-VINYLCYCLONON-3-EN-1-OL
SYSTEM. AN EFFECTIVE TWO CARBON RING EXPANSION
JACS, 94, 2262 AND 7074, 1972
- 585 72 799 THOMPSON HW MUCCINO RR
ZWITTER ANNIHILATION IN HALOGENATION OF ALLYLIC ALKOXIDES. THE DELTA8-1-PHENYL-1-OCTALOL SYSTEM
JACS, 94, 1183, 1972
- 585 72 800 TICHY M ZAHRAONI R
PHYSICAL PROPERTIES AND CHEMICAL REACTIVITY OF ALTERNANT HYDROCARBONS AND RELATED COMPOUNDS. 21.
ACID-BASE EQUILIBRIA OF POLYNUCLEAR PHENOLS AND AMINES
COLL. CZECH. CHEM. COMMUN., 37, 962, 1972
- 585 72 801 TISCHAU CA PERLMUTT HD
NEW METHOD OF SYNTHESIS OF DEUTERATED OLEFINS
J. LABEL. COMPOUNDS, 8, 105, 1972

- 585 72 802 TJAN SB
SYNTHESIS OF 3,5-DIALKYL-1,2,4-TRITHIOLANES. ASSIGNMENT OF CONFIGURATION AND CONFORMATIONAL ANALYSIS BY NMR
TETRAHEDRON, 28, 3489, 1972
- 585 72 803 TOCHTERMANN W
1. CHIRALE TRIBENZOCYCLOHEPTATRIEN-(TRIBENZO(G,C,E)CYCLOHEPTEN-) UND TRIBENZ(B,D,F)IOXEPIN DERIVATE.
2. DARSTELLUNG EINGEEBNETER TRIBENZOTROPONE UND IHR VERGLEICH MIT BOOTFORMIGEN ANALOGA
CHEM. BER., 104, 2923, 1971 AND 105, 1431, 1972
- 585 72 804 TODA M
2-AZABICYCLO(3.3.1)NON-1-ENE SYSTEMS ALPHA-S REACTION INTERMEDIATES
TETRAHEDRON LETS, P335, 1972
- 585 72 805 TRONCHET JMJ BOURGEOIS JM (1) GRAF R (2) GURNY R (2)
1. ISOMERISATIONS EN CHIMIE SUCRES. II. FERMETURES DE CYCLES PAR ATTAQUE NUCLEOPHILE INTRAMOLECULAIRE SUR DES CARBONES SP(2) A CARACTERE ELECTROPHILE: FURANNOSES HYBRIDES SP(2) EN C3.
2. UTILISATION D'YLIDES DU PHOSPHORE EN CHIMIE DES SUCRES. X. SYNTHESE STEREOSPECIFIQUE DE L' EPIHERE DERIVES DE DESOXY-5-PENTOSE, A GROUPEMENTS GEM-HYDROXY-FORMYLE DU GEM-HYDROXY-HYDROXYMETHYLE
HELV. CHIM. ACTA, 54, 1580, 1971 AND 55, 613, 1972
- 585 72 806 TROST BM CORY RM
ADDUCTS OF FULVENE AND 6-ACETOXYFULVENE WITH DIMETHYL AZODICARBOXYLATE
J. ORG. CHEM., 37, 1106, 1972
- 585 72 807 TRZUPEK LS
PREPARATION OF DEUTERATED ORGANIC COMPOUNDS FROM ACTIVATED ORGANIC HALIDES BY REDUCTION WITH ZINC-DEUTERIUM OXIDE
J. ORG. CHEM., 37, 3300, 1972
- 585 72 808 TSUCHIYA M
CONDENSATION OF ALPHA-KETOALDEHYDES WITH 4,5-DIAMINOPYRIMIDINE DERIVATIVES
J. CHEM. SOC. JAPAN, PURE CHEM. SECT., 92, 1177, 1971
- 585 72 809 TSUGE O SHINKAI I (1) IWANAMI S (2) SAKAI K (4)
1. STUDIES OF ACENAPHTHENE DERIVATIVES. XX. REACTIONS OF BENZYLIDENEACENAPHTHENONES WITH SULFONIUM YLIDES. 2. CYCLOADDITION REACTIONS OF BENZOYLSULFENE WITH ANILS. 3. STUDIES OF ACENAPHTHENE DERIVATIVES. XXI. REACTION OF 2-DIAZOACENAPHTHENE WITH OLEFINS AND ACETYLENES. 4. STUDIES OF ACYL AND THIACYL ISOCYANATES. VIII. CYCLOADDITION REACTIONS OF BENZOYL AND THIOBENZOYL ISOCYANATES WITH CARBODIIMIDES
BULL. CHEM. SOC. JAPAN, 43, 3514 AND 3543, 1970, J. ORG. CHEM., 36, 745, 1971, AND BULL. CHEM. SOC. JAPAN, 45, 1534, 1972
- 585 72 810 TSUJI T KOSOWER EM
DIAZENES. 6. ALKYL DIAZINES
JACS, 93, 1992, 1972
- 585 72 811 TURRO NJ
CYCLOADDITION REACTIONS OF CARBONYL COMPOUNDS POSSESSING HIGH ENERGY CONTENT
AD-741 276, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1971
- 585 72 812 ULRICH H
METHYL-TERT-BUTYLCARBODIIMIDE, A DIAGNOSTIC TOOL IN 2 + 2 CYCLOADDITION REACTIONS.
JACS, 94, 3484, 1972
- 585 72 813 UMEZAWA S TSUCHIYA T JIKIHARA T (1) OKAZAKI Y (2)
1. SYNTHESIS OF 3',4'-DIDEOXYNEAMINE ACTIVE AGAINST KANAMYCIN-RESISTANT E. COLI AND P. AERUGINOSA.
2. SYNTHESIS OF 3,4-DIDEOXY-3-ENOSIDES AND CORRESPONDING 3,4-DIDEOXY SUGARS
J. ANTIBIOT., 24A, 711, 1971 AND BULL. CHEM. SOC. JAPAN, 44, 3494, 1971
- 585 72 814 USKOKOVIC M
EPIERIC 3-VINYL-4-PIPERIDINEACETIC ACIDS, SYNTHETIC PRECURSORS OF CINCHONA AND INDOL ALKALOIDS
JACS, 93, 5902, 1971
- 585 72 815 VALASHEK IE
SPHINGOSINE AND ITS NATURAL PRODUCTS. 6. REDUCED REACTIVITY OF 2-C-HYDROXYL GROUP OF N-CEREBROSYL-D-ERYTHRO-SPHINGOSYL-BETA-D-GALACTOPYRANOSIDE (PHRENOSIN)
ZH. OBSCH. KHIM., 40, 2737, 1970 IN RUSSIAN
- 585 72 816 VAN BERGEN TJ KELLOGG RM
RING EXPANSION OF A 1,2-DIHYDROPYRIDINE TO AN AZEPINE
J. ORG. CHEM., 36, 978, 1971
- 585 72 817 VAN DER LANS HNM
DOES 2,6-DIDEOHYDROPYRIDINE EXIST
TETRAHEDRON LETS, P1875, 1971
- 585 72 818 VAN LIER JE SMITH LL (1) KAN G (2)
1. AUTOXIDATION OF CHOLESTEROL VIA HYDROPEROXIDE INTERMEDIATES. 2. CHOLESTEROL 26-HYDROPEROXIDE
J. ORG. CHEM., 35, 2627, 1970 AND 37, 145, 1972
- 585 72 819 VAN LOOCK E
REACTIONS OF ETHYL AZIDIFORMATE AND SUBSTITUTED BENZOYL AZIDES WITH CARBONYL STABILIZED SULFONIUM YLIDES
TETRAHEDRON, 28, 3061, 1972
- 585 72 820 VAN MELICK JEW
REACTIVITY OF DIALKENYLOXYMETHYL CARBOXYLATES TOWARDS CARBOXYLIC ACIDS. SYNTHESIS OF ISOPROPENYL FORMATE AND CF ACYLS
TETRAHEDRON LETS, P2083, 1971
- 585 72 821 VANHOEY M
OXIDATION PRODUCTS OF ISOMULONES
BULL. SOC. CHIM. BELGES, 79, 499, 1970
- 585 72 822 VEDEJS E
CONVERSION OF BARBARALONE INTO BICYCLO(4.2.1)NONO-2,4,7-TRIEN-9-ONE BY A BROMINATION-REDUCTION SEQUENCE
JACS, 94, 5842, 1972

- 585 72 823 VELARDE E KNOX LH CROSS AD
REACTIONS OF 7-FLUORO-8-HOMO-STERIODS
ANN. CHEM., 748, 123, 1971
- 585 72 824 VELDINK GA
ENZYMIC CONVERSION OF LINOLEIC ACID HYDROPEROXIDE BY FLAX-SEED HYDROPEROXIDE ISOMERASE
BIOCHEM. J., 120, 55, 1970
- 585 72 825 VENKATARAMANI PS
TRANSFORMATION OF CYCLOPROPANOL INTERMEDIATES. 1. SYNTHESIS OF ANGULARLY SUBSTITUTED PERHYDROINDAN
SYSTEMS VIA A STEREOSPECIFIC CYCLOPROPANOL REARRANGEMENT
JACS, 93, 269, 1971
- 585 72 826 VINOGRAD SV KORSHAK VV ROZYNOV BV
SYNTHESIS AND STUDY OF NITROGEN CONTAINING MACROHETEROCYCLIC COMPOUNDS
ZH. ORG. KHIM., 8, 1305, 1972 IN RUSSIAN
- 585 72 827 VL IETINCK A
FACILE METHOD FOR PREPARATION OF 6-EPI-PENICILLINS
TETRAHEDRON LETS., P285, 1972
- 585 72 828 WAGNER G LEISTNER S
DARSTELLUNG VON 4,6-DINITROBENZOXAZOLINONEN UND DEREN SPALTUNG ZU 3,5-DINITRO-2-AMINOPHENOLEN
PHARMAZIE, 26, 280, 1971
- 585 72 829 WALDORF SKY IIM NIZNIK GE
SYNTHESIS OF ISONITRILES
J. ORG. CHEM., 37, 187, 1972
- 585 72 830 WALKER GN KEMPTON RJ
AROMATIC DEMETHOXYLATION IN CYCLIZATION OF 3-(BETA-DIALKOXYARYLETHYLAMINO)PHTHALIDES TO 2,3-
DIHYDRO-7H-DIBENZO(DE,H)QUINOLINES
J. ORG. CHEM., 36, 1413, 1971
- 585 72 831 WASSERMAN HH KEEHN PM
REACTION OF BENZO(2,2)PARACYCLOPHANE WITH SINGLET OXYGEN
JACS, 94, 298, 1972
- 585 72 832 WAWZONEK S RANDEN HA
ACTION OF SULFURIC ACID ON ETHYL 3,3-DIPHENYL-3-HYDROXYPROPANOATE
J. ORG. CHEM., 36, 1116, 1971
- 585 72 833 WEBB BC WELLS CHJ
STUDIES ON NITROAROMATIC COMPOUNDS. 3. SYNTHESIS OF SOME NEW POLYNITROACENAPHTHENES
J. CHEM. SOC., PERKIN TRANS., I, P166, 1972
- 585 72 834 WEBER-SCHILLING CA WANZLICK HW
SYNTHESE VON 2',4',5'-TRIHYDROXYLIERTEN ISOFLAVONEN
CHEM. BER., 104, 1518, 1971
- 585 72 835 WEHRLI PA
SYNTHESIS OF TRIMETHYLHYDROQUINONE FROM ALIPHATIC PRECURSORS
J. ORG. CHEM., 37, 2340, 1972
- 585 72 836 WEICKHARDT B SIECRIST AE
ANIL SYNTHES. 1. UBER DIE BASEN KATALYSIERTE UMSETZUNG VON 4-METHYLAZOBENZOL DERIVATEN MIT ANILEN
AROMATISCHER ALDHYDE. 2. UBER EINE NEUE BASEN KATALYSIERTE UMLAGERUNG VON 4-(BENZYLALKYLAMINO)-4'-
STYRYLAZOBENZOLEN ZU 4-BENZOYL-4'-STYRYLAZOBENZOLEN
HELV. CHIM. ACTA, 55, 138 AND 173, 1972
- 585 72 837 WEINBERG KG WHIPPLE EB
1,6-DIPHOSPHATRIPTYCENE
JACS, 93, 1801, 1971
- 585 72 838 WEINKAM RJ GILLIS BT
RING-OPENING REACTIONS OF PYRAZOLO(1,2-A)PYRIDAZIN-6-ONE SYSTEM
J. ORG. CHEM., 37, 1696, 1972
- 585 72 839 WELLS JN
1-ACYL-2,4,5-TRIPHENYL-3-IMIDAZOLINES
J. ORG. CHEM., 37, 2158, 1972
- 585 72 840 WENTRUP C GAUGAZ M
MECHANISM OF THERMAL AND PHOTOLYTIC CYCLIZATION OF DIPHENYLAMINES TO CARBAZOLES
HELV. CHIM. ACTA, 54, 2108, 1971
- 585 72 841 WHITE JD
CONDENSATION OF 1,2-DIBENZOYLCYCLOHEXA-1,4-DIENES. SYNTHESIS OF 1,3-DIPHENYL SUBSTITUTED ISOINDOLES,
ISOBENZOFURANS, AND ISOBENZOTHIOPHENES
J. ORG. CHEM., 36, 1048, 1971
- 585 72 842 WHITFIELD GF
CLARIFICATION OF ACID CATALYZED REACTION OF GLYOXAL WITH CARBAMATE ESTERS
J. ORG. CHEM., 37, 95, 1972
- 585 72 843 WHITLOCK HW OVERMAN LE (2)
1. SYNTHESIS AND SOLVOLYTIC REARRANGEMENT OF EPIMERIC 4-METHANESULFONYLOXY-4A-METHYL-TRANS-1,2,3,4,4
A,9,10,10A-OCTAHYDROPHENANTHRENE AND THEIR 7-METHOXY AND 1,1-DIAMETHYL DERIVATIVES.
CONFORMATIONALLY RIGID HOMOBENZYLIC SYSTEMS. 2. SOLVOLYTIC REARRANGEMENTS ACCOMPANIED BY MULTIPLE
ALKYL SHIFTS
JACS, 93, 485 AND 2247, 1971
- 585 72 844 WICKER K
HETEROTRICYCLODECANE. 9. 2,7-DIOXAISOTWISTAN, 2,7-DIOXATWISTAN UND 2,8-DIOXAHOMOTWISTBENDAN SOWIE
DERIVATE
HELV. CHIM. ACTA, 55, 2744, 1972
- 585 72 845 WIEGREBE W FRICKE J BUDZIKIEWICZ M
SYNTHESE EINES 3-PHENYLISOCROMANS (PSEUDOCARBONILS; ETHYL CHLOROFORMATE)
TETRAHEDRON, 26, 2849, 1972

- 585 72 846 WIERINGA JH
ADAMANTYLIDENEADAMANTANE PEROXIDE, A STABLE 1,2-DIOXETANE
TETRAHEDRON LTRS, P169, 1972
- 585 72 847 WIERSEMA AK GRONOWITZ S
THIOPHENE ANALOGUES OF FLUORENE. 4. AN UNUSUAL BEHAVIOR OF A CYCLOPENTADITHIOPHENONE IN THE REACTION
WITH DIENOPHILES
ACTA CHEM. SCAND., 24, 2653, 1970
- 585 72 848 WILCOX CF
PREPARATION OF CYCLOOCTA(DEF)BIPHENYLENE, A NOVEL BENZENDIO ANTIAROMATIC HYDROCARBON
JACS, 94, 2532, 1972
- 585 72 849 WILLIAMS A SALVADORI G (1)
1. STUDIES ON THE HYDROLYSIS OF 3,1-BENZOXAZIN-4-ONES. 2. ALKALINE HYDROLYSIS OF SUBSTITUTED PHENYL
N-PHENYL CARBAMATES. STRUCTURE-REACTIVITY RELATIONSHIPS CONSISTENT WITH AN E1CB MECHANISM
J. CHEM. SOC. B, P1105, 1971 AND J. CHEM. SOC., PERKIN TRANS., 11, P808, 1972
- 585 72 850 WILSON GE STRONG CJ (1) MARTIN JHE (2)
1. SULFONIUM SALTS. V. PUMMERER REACTION OF DIBENZYL SULFOXIDE. 2. SELECTIVITY IN REACTION OF
AZODICARBOXYLATE ESTERS WITH SULFIDES
J. ORG. CHEM., 37, 2376 AND 2510, 1972
- 585 72 851 WILSON JD
A DIRECT PREPARATION OF ANIDINES. REACTION OF TETRAKIS(DIMETHYLAMINE)TITANIUM WITH N-H CARBOXYAMIDES
J. ORG. CHEM., 36, 1613, 1971
- 585 72 852 WLADISLA B GIORA A VIERTLER H
INTERACTION BETWEEN CARBONYL GROUPS AND SULPHUR ATOM. 2. SYNTHESSES AND ULTRAVIOLET SPECTRA OF SOME
LACTONES, CARBOXYLIC ACIDS AND ESTERS. SUB
AN. ACAD. BRASIL. CIENC., 43, 381, 1971
- 585 72 853 WOLF G
THERMOCHEMISCHE UNTERSUCHUNGEN AN CYCLISCHEN KETONEN
HELV. CHIM. ACTA, 55, 1446, 1972
- 585 72 854 WOLFE JF MURRAY TP
SYNTHESIS AND CERTAIN REACTIONS OF 1-ARYL-4-(2-QUINDOLYL)-1,3-BUTANEDIONES, A NEW CLASS OF
BETA-DIKETONES
J. ORG. CHEM., 36, 354, 1971
- 585 72 855 WOLFF T DANNENBERG H
SUBSTITUENTENEFFEKTE BEI DER DIENONPHENOL UMLAGERUNG VON 1,4-CIEN-3-ON STEROIDEN. 3. EINFLUSS VON
3-STANDIGEN SUBSTITUENTEN
TETRAHEDRON, 27, 3417, 1971
- 585 72 856 WOOLSEY NF KHALIL MH
SYNTHESIS AND REACTIONS OF 3-DIAZO-1,4-DIPHENYL-4-HYDROXY-2-BUTANONE
J. ORG. CHEM., 37, 2405, 1972
- 585 72 857 WORMAN JJ
REARRANGEMENT OF DIHYDROBROMIDE OF OCTAHYDRO-3,7-DIMETHOXY-1,5-DIPHENYL-1,5-DIAZOCINE
J. CHEM. SOC., PERKIN TRANS., 1, P1209, 1972
- 585 72 858 WORMSER HC
SYNTHESIS OF AZABIOTIN ANALOGS AS POTENTIAL COFACTORS FOR BIOTIN DEPENDENT ENZYMES
J. PHARM. SCI., 59, 1732, 1970
- 585 72 859 WULFF G
REAKTIONSPRODUKTE UND STEREOSPEZIFITAT DER GLUCOSYLIERUNG IN GEGENWART UNLOSLICHER SILBERSALZE IN
DIATHYLATHER
CHEM. BER., 105, 1111, 1972
- 585 72 860 WUNDERER H
DARSTELLUNG UND EIGENSCHAFTEN VON JODAMINO-P-BENZOCHINONEN
CHEM. BER., 105, 3479, 1972
- 585 72 861 WYNBERG H
THIENYLFURANS
J. ORG. CHEM., 36, 1011, 1971
- 585 72 862 YAMAMOTO I
REACTION OF ISOCYANATE WITH PHTHALALDEHYDE
TETRAHEDRON LTRS, P2295, 1971
- 585 72 863 YAMAMOTO Y NOZAKI H
STEREOCHEMICAL STUDIES AND SYNTHETIC APPLICATIONS OF BIS-BETA-KETO SULFOXIDES
BULL. CHEM. SOC. JAPAN, 45, 1167, 1972
- 585 72 864 YANUKA Y GOLANDER Y
CHEMISTRY OF A DIAZO KETONE AND ITS DERIVATIVES OBTAINED FROM CHOLANIC ACID
J. ORG. CHEM., 37, 2108, 1972
- 585 72 865 YATES P BETTS MJ (1) BICHAN DJ (2) MCCLOSKE JE
1. BASE INDUCED REARRANGEMENT OF GAMMA-DIKETONES. II. DEMONSTRATION OF OCCURRENCE OF SKELETAL
REARRANGEMENT AND OF REVERSIBILITY OF REACTION. 2. CONDENSATION OF CYCLOHEXANE-1,3-DIONES WITH
O-HYDROXYBENZYL ALCOHOL. SYNTHESIS OF 3,4-DIHYDRO-1(2H)-XANTHENO
JACS, 94, 1965, 1972 AND J. CHEM. SOC., CHEM. COMMUN., P839, 1972
- 585 72 866 YOSHIDA K FUENO T
ANODIC OXIDATIONS. 3. CONTROLLED POTENTIAL CYANOMETHOXYLATION OF 2,5-DIMETHYLFURAN
J. ORG. CHEM., 36, 1523, 1971
- 585 72 867 YOSHIDA M
2H,5H-TRIAZOLO(4,5-D)TRIAZOLES. A NEW HETEROAROMATIC SYSTEM
BULL. CHEM. SOC. JAPAN, 43, 3587, 1970
- 585 72 868 YOSHIMUR J SAKAI H ONDA N
AMINOSUGARS. 20. SYNTHESIS OF SOME DERIVATIVES OF 2-ACETAMIDO-2-DEOXY-D-MANNOSE
BULL. CHEM. SOC. JAPAN, 45, 2027, 1972

- 585 72 869 YOST Y
N-ARYL-N-PHENYLHYDROXYLAMINES FROM PHENYLMAGNESIUM BROMIDE AND NITRO COMPOUNDS
J. CHEM. SOC. C, P2119, 1971
- 585 72 870 YOLSEF AK OGLIARUSO MA
CORRECTION OF THE LITERATURE CONCERNING REACTIONS OF POLYARYLATED CARBINOLS. A NOVEL SUPRAFACIAL(1
5) SIGMATROPIC REARRANGEMENT
J. ORG. CHEM., 37, 2601, 1972
- 585 72 871 ZABEL K WEYERSTA P MARSCHAL H
FRAGMENTIERUNGSREAKTIONEN AN CARBONYLVERBINDUNGEN MIT BETA-STANDIGEN ELEKTRONEGATIVEN SUBSTITUENTEN.
21. CYAN-CYCLOBUTANE AUS TOSYLOXY-OLEFINEN
CHEM. BER., 105, 1053, 1972
- 585 72 872 ZAICHENK YA MARETINA IA PETROV AA
NEW SYNTHESIS OF PYRIDINES FROM DIACETYLENE
ZH. ORG. KHIM., 8, 1328, 1972 IN RUSSIAN
- 585 72 873 ZALKOW LH
STUDIES IN THE SYNTHESIS OF CAMPTOTHECIN. AN EFFICIENT SYNTHESIS OF 2,3-DIHYDRO-1H-PYRROLO(3,4-
B)QUINOLINE
J. CHEM. SOC. C, P3551, 1971
- 585 72 874 ZANDER M
UBER DIE UMSETZUNG VON 2,7-DI-BETA-NAPHTHYLAMINO-NAPHTHALIN MIT SCHWEFEL
TETRAEDRON LTRS. P3245, 1971
- 585 72 875 ZENAVI U SHARON N
SYNTHESIS OF METHYL 2,4-DIACETAMIDO-2,4,6-TRIDEOXY HEXOPYRANOSIDES
J. ORG. CHEM., 37, 2141, 1972
- 585 72 876 ZIGEUNER G
HETEROCYCLES. 27. DIHYDRO-6-METHYL-(OR-6-STYRYL)-4-PHENYL-2(1H)-PYRIMIDINONES (-THIONES).
HEXAHYDRO-5-BENZOYL-(OR-CINAMOYL)-4,7-DIPHENYL-2(1H)-QUINAZOLINONES (-THIONES)
MONATSH. CHEM., 101, 1767, 1970 IN GERMAN
- 585 72 877 ZIMMERMA I KAISER K
2,4,5,7-TETRANITRO-1,8-NAPHTHALIC ACID AND RELATED DERIVATIVES
J. CHEM. ENG. DATA, 17, 266, 1972
- 585 72 878 ZUPAN M
PYRIDAZINES. 51. SYNTHETIC APPROACHES TO PYRIDAZINO(2,3-A)-1,3,5-TRIAZINES. A NOVEL HETEROCYCLIC
SYSTEM
J. ORG. CHEM., 37, 2960, 1972
- 587 72 001 ACHENBACH H KARL W (1,3) KONIG F (2) REGEL W (3)
1. UNTERSUCHUNG DER SAUREN DES RAUSCHPFEFFERS (PIPER METHYSTICUM FORST.). 2. ZUR BIOGENESE DES
XANTHOCILLINS. III. DIE FRAGE DER BIOGENETISCHEN GLEICHWERTIGKEIT DER BEIDEN XANTHOCILLIN-HALFTEN.
3. INHALTSSTOFFE DES RAUSCHPFEFFERS. V. 11-HYDROXY-12-METHOXY-DIHYDROKAWAIN UND 11,12-
DIMETHOXY-DIHYDROKAWAIN. ZWEI NEUE KAWA-LACTONE AUS RAUSCHPFEFFER (PIPER METHYSTICUM FORST)
CHEM. BER., 104 1468, 1971. AND 105, 784 AND 2182, 1972
- 587 72 002 ACKMAN RG EPSTEIN S EATON CA
DIFFERENCES IN FATTY ACID COMPOSITIONS OF BLUBBER FATS FROM NORTHWESTERN ATLANTIC FINWHALES (
BALAENOPTERA PHYSALUS) AND HARP SEALS (PAGOPHILUS GROENLANDICA)
COMP. BIOCHEM. PHYSIOL., 40, 683, 1971
- 587 72 003 AEXEL RT RAMSEY RB NICHOLAS HJ
STEROLS AND TRITERPENES OF PELARGONIUM HORTORUM
PHYTOCHEM., 11, 2353, 1972
- 587 72 004 ALBONE ES FOX MW
ANAL GLAND SECRETION OF THE RED FOX
NATURE, 233, 569, 1971
- 587 72 005 ALDRIDGE DC TURNER WD (2)
1. METABOLITES OF LASIODIPLODIA THEOBROMAE. 2. TWO NEW MOULD METABOLITES RELATED TO AVENACIOLIDE. 3.
ANTIBIOTIC 1233A: A FUNGAL BETA-LACTONE
J. CHEM. SOC. C, P1623, P2430, AND P3888, 1971
- 587 72 006 ANDERSON RJ
STEREOSELECTIVE SYNTHESIS OF THE RACEMIC C-17 JUVENILE HORMONE OF CECROPIA
JACS, 94, 5379, 1972
- 587 72 007 ATHERTON L DUNCAN JM SAFE S
ISOLATION AND BIOSYNTHESIS OF ERGOSTA-5,7,9(11),22-TETRAEN-3BETA-OL FROM MUCOR ROUXII
J. CHEM. SOC., CHEM. COMMUN., P882, 1972
- 587 72 008 ATTAWAY DH HAUG P PARKER PL
STEROLS IN FIVE COASTAL SPERMATOPHYTES
LIPIDS, 6, 687, 1971
- 587 72 009 AVIGAN J RHATHENA SJ WILLIAMS CD
IN VITRO BIOSYNTHESIS OF LIPIDS, PROTEINS, AND DEOXYRIBONUCLEIC ACID IN AORTIC TISSUE IN CULTURED
AORTIC CELLS
BIOCHIM. BIOPHYS. ACTA, 270, 279, 1972
- 587 72 010 AYRE GL BLUM MS
ATTRACTION AND ALARM OF ANTS (CAMPONOTUS SPP.-HYMENOPTERA FORMICIDAE) BY PHEROMONES
PHYSIOL. ZOOL., 44, NU. 2, 11, 1971
- 587 72 011 BARLEY GC DAY AC GRAF U
NATURAL ACETYLENES. 33. BIOGENESIS OF C9 DIACETYLENIC TRIOL FROM FUNGUS CLITOCYBE RHIZOPHORA VELENE
J. CHEM. SOC. C, P3308, 1971
- 587 72 012 BARTON DHR
1. BIOSYNTHESIS OF TERPENES AND STEROIDS. V. SYNTHESIS OF ERGOSTA-5,7,22,24(28)-TETRAEN-3BETA-OL. A
BIOSYNTHETIC PRECURSOR OF ERGOSTEROL. 2. INVESTIGATIONS ON BIOSYNTHESIS OF STEROIDS AND
TERPENOIDS. VI. STEROIDS OF YEAST
J. CHEM. SOC. C, P1988, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P513, 1972

- 587 72 013 BASSHAM JA
PHOTOSYNTHETIC CARBON METABOLISM
LBL-383, CALIFORNIA UNIV., BERKELEY, LAWRENCE BERKELEY LAB., APRIL 1971. 26P. CONF-710436-2. NTIS.
FROM SYMPOSIUM ON ENERGY FOR THE FUTURE, WASHINGTON, D.C., APRIL 26, 1971
- 587 72 014 BATESON JH CROSS BE
NEW METABOLITES OF GIBBERELLA FUJIKUROI. 19. 3BETA,7BETA-DIHYDROXY-KAURENOLIDE
J. CHEM. SOC., PERKIN TRANS., 1, P1117, 1972
- 587 72 015 BATTERSBY AR
ALKALOID BIOSYNTHESIS. 16. COLCHICINE: ORIGIN OF TROPOLONE RING AND STUDIES WITH C6-C3-C6-C1 SYSTEM.
17. STRUCTURE AND CHEMISTRY OF ANDROCYMBINE
J. CHEM. SOC., PERKIN TRANS., 1, P1730 AND P1736, 1972
- 587 72 016 BAUMANN K MULLER J
EFFECT OF POTASSIUM INTAKE ON FINAL STEPS OF ALLOSTERONE BIOSYNTHESIS IN RAT. 1. 18-HYDROXYLATION
AND 18-HYDROXYOXYDEHYDROGENATION. 2. 11-BETA-HYDROXYLATION
ACTA ENDOCRINOL., 69, 701 AND 718, 1972
- 587 72 017 BAYER E
STOFFWECHSELPRODUKTE VON MIKROORGANISMEN. PHOSPHINOTHRICIN UND PHOSPHINOTHRICYL-ALANYL-ALANIN
HELV. CHIM. ACTA, 55, 224, 1972
- 587 72 018 BELL AM
MICROBIOLOGICAL HYDROXYLATION OF STEROIDS. 4. PATTERN OF DIHYDROXYLATION OF MONO-OXYGENATED
SALPHA-ANDROSTANES WITH CULTURES OF THE FUNGUS CALONECTRIA DECORA
J. CHEM. SOC., PERKIN TRANS., 1, P2081, 1972
- 587 72 019 BELL RM MAVIS RD VAGELOS PR
ALTERED PHOSPHOLIPID METABOLISM IN A TEMPERATURE SENSITIVE MUTANT OF ESCHERICHIA COLI, CR34T46
BIOCHIM. BIOPHYS. ACTA, 270, 504, 1972
- 587 72 020 BERGSTROM G
VOLATILE SECRETIONS OF SOME BUMBLE BEES, SOLITARY BEES, AND ANTS
PRESENTED AT JOINT MEETING OF ENTOMOLOGICAL SOC. OF AMERICA, ENTOMOLOGICAL SOC. OF QUEBEC, AND
ENTOMOLOGICAL SOC. OF CANADA, NOV. 26-30, 1972, MONTREAL, CANADA
- 587 72 021 BERGSTROM S
PROSTAGLANDINS IN FERTILITY CONTROL
SCIENCE, 175, 1280, 1972
- 587 72 022 BERRIE AM KNIGHTS BA
STEROLS IN GENUS TRITICUM
PHYTOCHEM., 11, 2363, 1972
- 587 72 023 BHATTACH JK SINHA AK
RELATIONSHIP AMONG GENES, ENZYMES, AND INTERMEDIATES OF BIOSYNTHETIC PATHWAY OF LYSINE IN
SACCHAROMYCES
MOL. GEN. GENET., 115, 26, 1972
- 587 72 024 BIEBER MA SWEETLEY CC FAULKNER DJ
PURIFICATION AND QUANTITATIVE DETERMINATION OF CECROPIA JUVENILE HORMONE
ANAL. BIOCHEM., 47, 264, 1972
- 587 72 025 BIRCH AJ BROWN WV (2) CORRIE JE (2) RUSSELL RA (3)
1. TERMITE ATTRACTANTS IN SANTALUM SPICATUM. 2. NEOCEMBRENE-A, A TERMITE TRAIL PHEROMONE. 3. STUDIES
IN RELATION TO BIOSYNTHESIS. XLIV. STRUCTURAL ELUCIDATIONS OF BREVIANAMIDES-B, C, D, AND F (DIKETOPIPERAZINES)
AUSTRALIAN J. CHEM., 23, 2337, 1970. J. CHEM. SOC., PERKIN TRANS., 1, P2653, 1972, AND TETRAHEDRON,
28, 2990, 1972
- 587 72 026 BLUM MS BRAND JM WALLACE JB (2)
1. SOCIAL INSECT PHEROMONES: THEIR CHEMISTRY AND FUNCTION. 2. CHEMICAL CHARACTERIZATION OF DEFENSIVE
SECRETION OF A CHRYSOMELID LARVA
AMER. ZOOL., 12, 553, 1972 AND LIFE SCI., PART 11, 11, 525, 1972
- 587 72 027 BOGENTOFT C ERICSSON O DANIELSSON B
MASS SPECTROMETRY OF METHAQUALONE METABOLITES
ACTA PHARM. SUEC., 9, NO. 2, 151, 1972
- 587 72 028 BOSE AK KHANCHAN KS HUNGUND BL
ROLE OF GLYCINE IN BIOSYNTHESIS OF A TERPENE
EXPERIENTIA, 27, NO. 12, XXX, 1971
- 587 72 029 BRAND JM BLUM MS FALES HM
FIRE ANT VENOMS: COMPARATIVE ANALYSES OF ALKALOIDAL COMPONENTS
TOXICON., 10, 259, 1972
- 587 72 030 BRANDON C GALLOP PM MARMUR J
STRUCTURE OF A NEW PYRIMIDINE FROM B. SUBTILIS PHAGE SP-15 NUCLEIC ACID
NATURE NEW BIOL., 239, 70, 1972
- 587 72 031 BREUER J BREUER H LISBDA BP
STUDIES ON METABOLISM OF STEROID HORMONES OF VERTEBRATES. 10. METABOLISM OF 4-C(14)-OESTRONE IN
LIVER SLICES OF NORMAL AND OF SEX-CONVERTED AFRICAN WATER FROGS (XENOPUS LAEVIS)
Z. PHYSIOL. CHEM., 353, 1919, 1972
- 587 72 032 BREWINGTON CR SCHWARTZ OP PALLANSCH NJ
EVIDENCE FOR ABSENCE OF CONJUGATES OF ACNE-CAUSING HORMONE IN COW'S MILK
PROC. SOC. EXP. BIOL. MED., 139, 745, 1972
- 587 72 033 BROWN AG
VERSIMIDE, A METABOLITE OF ASPERGILLUS VERSICOLOR
J. CHEM. SOC. C, P2572, 1970
- 587 72 034 BURLINGAME AL BALOGH B WELCH J
CARBON-13 NMR IN BIOSYNTHETIC STUDIES OF LIPIDS
J. CHEM. SOC., CHEM. COMMUN., P318, 1972

- 587 72 035 CAMPBELL IM ROBINS DJ KELSEY M
BIOSYNTHESIS OF BACTERIAL MENAQUINONES (VITAMINS K2)
BIOCHEM., 10, NO. 16, XXX, 1971
- 587 72 036 CANDONICA L RONCHETTI F (1) RUSSO G (1)
1. INCORPORATION OF SALPHA-FUROSTAN-3BETA,26-DIOL INTO TIGOGENIN BY DIGITALIS LANATA. 2. TOTAL
SYNTHESIS OF MYCOPHENOLIC ACID, SOME ANALOGUES AND SOME BIOGENETIC INTERMEDIATES
PHYTOCHEM., 11, 243, 1972 AND TETRAHEDRON, 28, 4395, 1972
- 587 72 037 CARGILL RL ROSENBLUM MG
SYNTHESIS OF HOUSEFLY SEX ATTRACTANT
J. ORG. CHEM., 37, 3971, 1972
- 587 72 038 CASCON SC BROWN KS
BIOGENETICALLY SIGNIFICANT TRITERPENES IN A SPECIES OF MELIACEAE: CABRALEA POLYTRICHA A. JUSS
TETRAHEDRON, 28, 315, 1972
- 587 72 039 CHANG NC FULCO AJ
EFFECTS OF TEMPERATURE AND FATTY ACID STRUCTURE ON LIPID METABOLISM IN BACILLUS LICHENIFORMIS 9259
UCLA-12-879, CALIFORNIA UNIV., LOS ANGELES, SCHOOL OF MEDICINE, 1972, 63P. NTIS
- 587 72 040 CHISHOLM MD MATSUD M
BIOSYNTHESIS OF ALLYLGLUCOSINOLATE AND 3-METHYLTHIOPROPYLGLUCOSINOLATE IN HORSE RADISH, ARMORACIA
LAPATHIFOLIA
PHYTOCHEM., 11, 203, 1972
- 587 72 041 CIMINO G
1. FUROSPONGIN-1, A NEW C-21 FURANOTERPENE FROM THE SPONGES SPONGIA OFFICINALIS AND HIPPOSPIONGIA
COMMUNIS. 2. MINOR C-21 FURANOTERPENES FROM THE SPONGES SPONGIA OFFICINALIS AND HIPPOSPIONGIA
COMMUNIS. 3. IRCININ-1 AND 2, LINEAR SESTERTERPENES FROM THE MARINE SPONGE IRCINIA OROS. 4.
POLYPRENYL DERIVATIVES FROM THE SPONGE IRCINIA SPINOSULA. 2-POLYPRENYLBENZOQUINONES,
2-POLYPRENYLENZOQUINOLS, PRENYLATED FURANS, AND A C-31 DIFURANOTERPENE
TETRAHEDRON, 27, 4673, 1971, AND 28, 267, 333, AND 1315, 1972
- 587 72 042 CLEMENT G MEYER C REBELLER M
DECOLORING CYANOPHYCENE ALGAE BY EXTRACTION OF THEIR PIGMENTS
LA-TR-71-73, TRANSLATED FOR LOS ALAMOS SCIENTIFIC LAB., NEW MEXICO, FROM FRENCH PATENT 1,591, 570,
6P. NTIS
- 587 72 043 CLEYE G
MIKROBIOLOGISCHE HYDROXYLIERUNG VON 3BETA-HYDROXY-SALPHA,6ALPHA-EPOXY-SALPHA-PREGNANONEN-(20) MIT
FOLGEREAKTIONEN
CHEM. BER., 105, 658, 1972
- 587 72 044 COCHRANE JS HANSON JR
SYNTHESIS OF INSECT JUVENILE HORMONE
J. CHEM. SOC., PERKIN TRANS., I, P361, 1972
- 587 72 045 COMEN AI DREYFUSS J FALES HM
BIOTRANSFORMATION OF ANTIARRHYTHMIC AGENT 2-(D-((3-(DIMETHYLAMINO)PROPYL)THIO)PHENYL)-3-METHYLEUREA
IN DOG
J. MED. CHEM., 15, 542, 1972
- 587 72 046 COLE RJ KIRKSEY JW
DIHYDRO-D-METHYLSTERIGMATOCYSTIN, A NEW METABOLITE FROM ASPERGILLUS FLAVUS
TETRAHEDRON LETS, P3109, 1970
- 587 72 047 COOK IF
A GIBBANE METABOLITE FROM (-)-KAURA-2,16-DIEN-19-OL
TETRAHEDRON LETS, P2157, 1971
- 587 72 048 COSTA E
DOPAMINE AND NOREPINEPHRINE IN NORADRENERGIC AXONS: A STUDY IN VIVO OF THEIR PRECURSOR PRODUCT
RELATIONSHIP BY MASS FRAGMENTOGRAPHY AND RADIOCHEMISTRY
PHARMACOL. REV., 24, NO. 2, 167, 1972
- 587 72 049 CREWE RM BLUM MS COLLINGW CA (2)
1. ALARM PHEROMONES OF ATTINI: THEIR PHYLOGENETIC SIGNIFICANCE. 2. COMPARATIVE ANALYSIS OF ALARM
PHEROMONES IN ANT GENUS CREMATOGASTER
J. INSECT PHYSIOL., 18, 31, 1972 AND COMP. BIOCHEM. PHYSIOL., 43, 703, 1972
- 587 72 050 CROMBIE L
CYCLOPROPANE CLEAVAGE OF CHRYSANTHEMIC ACID RELATIVES TO SANTCLINYL, ARTEMISYL, AND LAVANDULYL
STRUCTURES: ACID CATALYSED AND BIOSYNTHETIC EXPERIMENTS
J. CHEM. SOC., PERKIN TRANS., I, P642, 1972
- 587 72 051 CROGAN JE VAGELOS PR
METABOLISM AND FUNCTION OF MEMBRANE PHOSPHOLIPIDS OF ESCHERICHIA COLI
BIOCHIM. BIOPHYS. ACTA, BIOMEMBRANES, 265, 25, 1972
- 587 72 052 CRONHOLM T MAKINO I (1) SJOVALL J (1) ERIKSSON H (3) GUSTAFSSON J (3)
1. STEROID METABOLISM IN RATS GIVEN (1-(2H2)ETHANOL. OXIDOREDUCTION OF ISOMER 3-HYDROXYCHOLANDIC
ACIDS AND REDUCTION OF 3-OXO-4-CHOLENIC ACID. 2. STEROID METABOLISM IN RATS GIVEN (1-(2H2)
H2)ETHANOL. BILIARY METABOLITES OF CORTICOSTERONE AND ADMINISTERED 4-ANDROSTENE-3,17-DIONE. 3.
EXCRETION OF STEROID HORMONE METABOLITES IN BILE OF MALE RATS
EUR. J. BIOCHEM., 26, 251, 1972, 27, 10, 1972, AND STEROIDS, 18, 455, 1972
- 587 72 053 CROSS BE GATFIELD IL (2) MARKWELL RE (3)
NEW METABOLITES OF GIBBERELLA FUJIKURII. (1) XVI. CYCLONERODIOL. (2) XVII. PARTIAL SYNTHESIS OF
GIBBERELLIN-ALIS NORKETONE FROM 7-HYDROXY-KAURENOLIDE. (3) XVIII. 4BETA,7-
DIHYDROXY-1-METHYL-8-METHYLENEGIBBA-1,3,4A(10A)-TRIEN-10-ONE
TETRAHEDRON, 27, 1663, 1971 AND J. CHEM. SOC. C, P1539 AND P2980, 1971
- 587 72 054 DAILEY J SEDVALL G SJOQUIST B
EFFECT OF CHLORPROMAZINE AND SOME OF ITS METABOLITES ON ACCUMULATION OF HOMOVANILLIC ACID IN BRAIN
OF MICE
J. PHARM. PHARMACOL., 24, 580, 1972
- 587 72 055 DANN RE MITSCHER LA COURI D
IN VIVO METABOLISM OF C(14) LABELED AFLATOXINS B1 B2, G1 IN RATS
RES. COMMUN. CHEM. PATHOL. PHARMACOL., 3, 667, 1972

- 587 72 056 DE LUCA P
MARINE STEROLS WITH A NEW PATTERN OF SIDE CHAIN ALKYLATION FROM THE SPONGE APLYSINA (=VERONGIA)
AEROPHODA
J. CHEM. SOC., PERKIN TRANS., 1, P2132, 1972
- 587 72 057 DEGANI C HALMANN M
CHEMICAL EVOLUTION-SYNTHESIS OF ALPHA-D-GLUCOSE 1,6-DIPHOSPHATE IN POTENTIALLY PREBIOTIC CONDITIONS
NATURE, NEW BIOL., 235, 171, 1972
- 587 72 058 DIXON H. GINGER CD WILLIAMS J
TRYPANOSOME STEROLS AND THEIR METABOLIC ORIGINS
COMP. BIOCHEM. PHYSIOL., 41, 1, 1972
- 587 72 059 DURKIN EJ NISHIKAW MT
EFFECT OF STARVATION, DIETARY PROTEIN AND PARTIAL HEPATECTOMY ON RAT LIVER ASPARTATE AND ORNITHINE
CARBAMOYLTRANSFERASES
J. NUTR., 101, 1467, 1971
- 587 72 060 EATON MAW HUTCHINSON DW
ISOCUMARINS FROM STREPTOMYCES MOBARAENSIS
TETRAHEDRON LETS., P1337, 1971
- 587 72 061 EBERHARD A ROUSER G
QUANTITATIVE ANALYSIS OF PHOSPHOLIPIDS OF SOME MARINE BIOLUMINESCENT BACTERIA
LIPIDS, 6, 410, 1971
- 587 72 062 EGAMBERDIEV A PAIZIEV P SKVORTSOVA S FEODORIDI N
BIOLOGICAL PROPERTIES AND OILINESS OF SEEDS OF RADIONUTANTS OF THE COTTON PLANT
UZB. BIOL. ZH., NO. 3, 18, 1971 IN RUSSIAN
- 587 72 063 ELLESTAD GA MCGAHREN WJ KUNSTMAN MP
STRUCTURE OF A NEW FUNGAL LACTONE, LL-P880 ALPHA, FROM AN UNIDENTIFIED PENICILLUM SP.
J. ORG. CHEM., 37, 2045, 1972
- 587 72 064 EMERSON PM MASON DY CUTHBERT JE
ERYTHROCYTE GLUTATHIONE PEROXIDASE CONTENT AND SERUM TOCOPHEROL LEVELS IN NEWBORN INFANTS
BRIT. J. HAEMATOL., 22, 667, 1972
- 587 72 065 ENGELBRE JP TURSCH B DJERASSI C
NEW STEROL FROM AN ALCYONARIAN
STERIODS, 20, 121, 1972
- 587 72 066 ENWALL EL VAN DER HE D HSU IN
CRYSTAL STRUCTURE AND ABSOLUTE CONFIGURATION OF TWO CYCLOPROPANE CONTAINING MARINE STERIODS
J. CHEM. SOC., CHEM. COMMUN., P215, 1972
- 587 72 067 ESOERS TW LIGHT RJ
CHARACTERIZATION AND IN VIVO PRODUCTION OF THREE GLYCOLIPIDS FROM CANDIDA BOGORIENSIS:
13-GLUCOPYRANOSYLGLUCOPYRANOSYLOXYDODECANOIC ACID AND ITS MONO AND DIACETYLATED DERIVATIVES
J. LIPID RES., 13, 663, 1972
- 587 72 068 FAHRENHOLTZ KE
SYNTHESIS OF TWO METABOLITES OF (-)-DELTA8-TETRAHYDROCANNABINOL
J. ORG. CHEM., 37, 2204, 1972
- 587 72 069 FATTORUSSO E
1. ISOLATION AND STRUCTURE OF NITENIN AND DIHYDROMITENIN, NEW FURANOTERPENES FROM SPONGIA NITENS, 2.
AEROPLYSININ-1, AN ANTIBACTERIAL BROMO COMPOUND FROM THE SPONGE VERONGIA AEROPHODA
TETRAHEDRON, 27, 3909, 1971 AND J. CHEM. SOC., PERKIN TRANS., 1, P16, 1972
- 587 72 070 FAYEZ MBE NEGM SAR
MASS SPECTROMETRIC BEHAVIOR OF CARDIAC STERIOD AGLYCONES OF CARDENOLIDE TYPE
J. PHARM. SCI., 61, 765, 1972
- 587 72 071 FLOOD ME
PIGMENTS OF PSEUDOMONAS SPECIES, 5. BIOSYNTHESIS OF PYOCYANIN AND THE PIGMENTS OF PS. AUREOFACIENS
J. CHEM. SOC., PERKIN TRANS., 1, P622, 1972
- 587 72 072 FORREST JM KNIGHTS BA
PRESENCE OF PHYTOSTEROLS IN FOOD OF APHID, MYZUS PERSICAE
J. INSECT PHYSIOL., 18, 723, 1972
- 587 72 073 FRANCK B TEETZ V
MODEL REACTIONS FOR BIOSYNTHESIS OF ERYTHRINA ALKALOIDS
ANGEW. CHEM. INT. ED. ENGL., 10, 411, 1971
- 587 72 074 FRANCK B GANTZ D MONTFORT F
ZUR BIOSYNTHESSE VON HAM UND VITAMIN-B12 AUS ALPHA,GAMMA-C(14)2-UROPORPHYRINOGEN III (BIOSYNTHESIS OF
HEME AND VITAMIN-B12 FROM ALPHA,GAMMA-C(14)2-UROPORPHYRINOGEN III)
ANGEW. CHEM., 84, 433, 1972 AND ANGEW. CHEM. INT. ED. ENGL., 11, 421, 1972
- 587 72 075 FREUDENT RI MARTIN J WALL ME
DISTRIBUTION OF DELTA9-TETRAHYDROCANNABINOL IN MOUSE
BRIT. J. PHARMACOL., 44, 244, 1972
- 587 72 076 FRIGERIO A
MASS SPECTROMETRIC CHARACTERIZATION OF CARBAMAZEPINE-10,11-EPOXIDE, A CARBAMAZEPINE METABOLITE
ISOLATED FROM HUMAN URINE
J. PHARM. SCI., 61, 1144, 1972
- 587 72 077 FRITIG B LEGRAND M OURISSON G
BIOSYNTHESIS OF PHENOLIC COMPOUNDS IN HEALTHY AND DISEASED TOBACCO PLANTS AND TISSUE CULTURES
Z. PHYSIOL. CHEM., 353, NO. 2, 134, 1972
- 587 72 078 FULCO AJ
BIOSYNTHESIS OF UNSATURATED FATTY ACIDS BY BACILLI, 3. UPTAKE AND UTILIZATION OF EXOGENOUS
PALMITATE, 4. TEMPERATURE-MEDIATED CONTROL MECHANISMS
UCLA-12-843 AND UCLA-12-844, 1970 AND 1971, 43P AND 42P, NTIS, CALIFORNIA UNIV., LOS ANGELES, LAB.
OF NUCLEAR MEDICINE AND RADIATION BIOLOGY

- 587 72 079. GERBER GB DEROO J
METABOLISM OF 5-HYDROXYTRYPTOPHAN IN ISOLATED PERFUSED LIVER FROM NORMAL AND X-IRRADIATED RATS
BIOPHYSIK, 8, NO. 1, 9, 1971
- 587 72 080. GOSSINGER E
STEROIDE UND SEXUAL HORMONE. HERSTELLUNG VON 14BETA-HYDROXY-20-KETO-DELTA16-STEROIDEN. EIN NEUER
ERGIEBIGER ZUGANG ZU 3-O-METHYL-17ALPHA,20XI-TETRAHYDROBATRACHOTOXININ-A
HELV. CHIM. ACTA, 54, 2785, 1971
- 587 72 081. GRAF W
STEROIDE UND SEXUAL HORMONE. (1). PARTIALSYNTHESSE VON 3-O-METHYL-20XI-7,8-DIHYDROBATRACHOTOXININ-A.
(2). SYNTHESSE DER C-20 EPIMEREN 7,8-DIHYDROBATRACHOTOXININE
HELV. CHIM. ACTA, 54, 2789, 1971 AND 55, 1545, 1972
- 587 72 082. GRANSTRO E SAMUELSSON B
STRUCTURE OF A DEOXYPROSTAGLANDIN IN MAN
JACS, 94, 4380, 1972
- 587 72 083. GRAY RW WHALLEY WB
CHEMISTRY OF FUNGI, 63. RUBRORIOTRIN, A METABOLITE OF PENICILLIUM HIRAYAMAE UDAGAWA
J. CHEM. SOC. C, P3575, 1971
- 587 72 084. GREEN DE
AUTOMATED DETECTION OF ABUSED DRUGS BY DIRECT MASS FRAGMENTOGRAPHY
PROC. WESTERN PHARMACOL. SOC., 15, 74-8, 1972
- 587 72 085. GROVE JF
1. METABOLIC PRODUCTS OF STEMPHYLIUM RADICINUM. IV. MINOR PRODUCTS. 2. NEW METABOLIC PRODUCTS OF
ASPERGILLUS FLAVUS. I. ASPERENTIN, ITS METHYL ETHERS, AND 5'-HYDROXYASPERENTIN. 3. NEW METABOLIC
PRODUCTS OF ASPERGILLUS FLAVUS. II. ASPERFLAVIN, ANHYDROASPERFLAVIN, AND 5,7-
DIHYDROXY-4-METHYLPHTHALIDE
J. CHEM. SOC. C, P2261, 1971 AND J. CHEM. SOC., PERKIN TRANS., I, P2400 AND P2406, 1972
- 587 72 086. GURNY D
METABOLISM OF (-)-DELTA9 AND (-)-DELTA8-TETRAHYDROCANNABINOL BY MONKEY LIVER
JACS, 94, 7928, 1972
- 587 72 087. GUT M
BASIC STUDIES OF STEROID HORMONE METABOLISM
COD-918-1, PROGRESS REPORT, MAY 1971 - MAY 1972, WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY,
SHREWSBURY, MASS., MAY 1972, 3P, NTIS
- 587 72 088. HABUCHI O YAMAGATA T SUZUKI S
BIOSYNTHESIS OF ACETYL GALACTOSAMINE 4,6-DISULFATE UNIT OF SQUID CHONDROITIN SULFATE BY
TRANS-SULFATIN FROM 3'-PHOSPHOADENOSINE 5'-PHOSPHOSULFATE
J. BIOL. CHEM., 246, 7357, 1971
- 587 72 089. HAGENFEL L HELLSTRO K ROSENOVI U
ON METABOLISM OF FAT AND CARBOHYDRATE IN A PATIENT WITH REFRACTORY SICKLE CELL ANAEMIA
ACTA MED. SCAND., 191, 57, 1972
- 587 72 090. HALLGREN B STALLBERG G THORIN H
SEPARATION AND IDENTIFICATION OF A METHOXY SUBSTITUTED POLYUNSATURATED GLYCEROL ETHER FROM GREENLAND
SHARK LIVER OIL
ACTA. CHEM. SCAND., 25, 3781, 1971
- 587 72 091. HAMMARSTROM S LINDBERG AA (3) ROBERTSSON ES (3) SAMMUELSSON B (4)
1. ON BIOSYNTHESIS OF CEREBROSIDES CONTAINING NON-HYDROXY ACIDS. 1. MASS SPECTROMETRIC EVIDENCE FOR
PSYCHOSINE PATHWAY. II. MASS SPECTROMETRIC EVIDENCE FOR CERAMIDE PATHWAY. 2. ON BIOSYNTHESIS OF
CEREBROSIDES: NONENZYMATIC N-ACYLATION OF PSYCHOSINE BY STEAROYL COENZYME-A. 3. PRECIPITATION OF
LIPID POLYSACCHARIDES FROM ROUGH MUTANTS OF SALMONELLA TYPHIMURIUM BY AN A-HEMAGGLUTININ FROM HELIX
POMATIA. 4. ON BIOSYNTHESIS OF CEREBROSIDES CONTAINING 2-HYDROXY ACIDS. MASS SPECTROMETRIC
EVIDENCE FOR BIOSYNTHESIS VIA CERAMIDE PATHWAY
BIOCHEM. BIOPHYS. RES. COMMUN., 45, 459, 1971, FEBS (FED. EUR. BIOCHEM. SOC.) LTRS, 21, 259, 1972,
EUR. J. BIOCHEM., 25, 274, 1972, AND J. BIOL. CHEM., 247, 1001, 1972
- 587 72 092. HAMMERLING G
STRUCTURAL INVESTIGATIONS ON THE CORE POLYSACCHARIDE OF SALMONELLA TYPHIMURIUM AND THE MODE OF
ATTACHMENT OF THE O-SPECIFIC CHAINS
EUR. J. BIOCHEM., 15, 48, 1970
- 587 72 093. HANSEL R PELTER A
CINNAMYLIDENBUTENOLIDE AND PIPER SANCTUM
PHYTOCHEM., 10, 1627, 1971 IN GERMAN
- 587 72 094. HARRIS TM
MODELS OF BIOGENESIS OF POLYKETIDE TYPE PHENOLIC ETHERS
JACS, 93, 2511, 1971
- 587 72 095. HASEGAWA K ISOBE M GOTO T
HIGHLY PURIFIED DIAPAUSE HORMONE FROM SILKWORM
NATURWISSENSCHAFTEN, 59, 364, 1972
- 587 72 096. HAZLEWOOD GA TONES L
COMPARATIVE STUDIES OF BILE SALTS. NEW TYPE OF BILE SALT FROM ARAPAIMA GIGAS (CUVIER) (FAMILY
OSTEOGLOSSIDAE)
BIOCHEM. J., 126, 1161, 1972
- 587 72 097. MAY JD MORRISON WR
POLAR LIPIDS IN BOVINE MILK. 3. ISOMERIC CIS AND TRANS MONOENOIC AND DIENOIC FATTY ACIDS, AND ALKYL
AND ALKENYL ETHERS IN PHOSPHATIDYL CHOLINE AND PHOSPHATIDYL ETHANOLAMINE
BIOCHIM. BIOPHYS. ACTA, 248, 71, 1971
- 587 72 098. HEDDEN P MACMILLA J
PARTIAL SYNTHESIS OF GIBBERLIN-A14 ALDEHYDE, A PROBABLE BIOSYNTHETIC INTERMEDIATE OF GIBBERELLINS
TETRAHEDRON LTRS, P4939, 1971
- 587 72 099. HELLERQVIST CG LINDBERG A SAMUELSSON K
1. STRUCTURAL STUDIES OF THE O-SPECIFIC SIDECHAINS OF THE CELL-WALL LIPOPOLYSACCHARIDES FROM
SALMONELLA NEWPORT AND SALMONELLA KENTUCKY. 2. STRUCTURAL STUDIES ON O-SPECIFIC SIDECHAINS OF
CELL-WALL LIPOPOLYSACCHARIDE FROM PASTEURELLA PSEUDOTUBERCULOSIS GROUP-II-A
CARBOHYD. RES., 14, 17, 1970 AND ACTA CHEM. SCAND., 26, 1180, 1972

- 587 72 100 HEMPHILL DD
ISOLATION, IDENTIFICATION, AND RELATIONSHIP TO SEX EXPRESSION OF THE GIBBERELLINS OF CUCUMIS MELO
AND CUCUMIS SATIVUS
THESIS. MICHIGAN STATE UNIV., EAST LANSING, UNIV. MICROFILMS ORDER NO. 71-31,224. DISS. ABS., 328,
6, 3155, 1971
- 587 72 101 MEUSLER K
UMWANDLUNG VON PENICILLINEN IN CEPHALOSPORINE
HELV. CHIM. ACTA, 55, 388, 1972
- 587 72 102 HIKINO H OHIZUMI Y TAKEMOTO T
ABSORPTION, DISTRIBUTION, METABOLISM, AND EXCRETION OF INSECT-METAMORPHOSING HORMONE ECDYSTERONE IN
MICE. II.
CHEM. PHARM. BULL. (TOKYO), 20, 2454, 1972
- 587 72 103 HIPPS PP HOLLAND WH SHERMAN WR
IDENTIFICATION AND MEASUREMENT OF CHIRO-INOSITOL IN AMERICAN COCKROACH, PERIPLANETA AMERICANA L.
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 1903, 1972
- 587 72 104 HLAVACEK J DOLEJS L SORM F
NATURAL AND SYNTHETIC MATERIALS WITH INSECT HORMONE ACTIVITY. 13. AROMATIC TERPENIC THIOESTERS
COLLECT. CZECH. CHEM. COMMUN., 37, 3905, 1972
- 587 72 105 HO KJ PENG SK TAYLOR CB
IDENTIFICATION AND QUANTITATION OF DIETARY AND FECAL NEUTRAL STEROLS BY MASS SPECTROMETRY
ATHEROSCLEROSIS (J. ATHEROSCL. RES.), 15, NO. 2, 269, 1972
- 587 72 106 HO YK GUPTA RN MACLEAN DB
BIOSYNTHESIS OF CERNUINE
CAN. J. CHEM., 49, 3352, 1971
- 587 72 107 HOLICK MF SCHNOES HK DELUCA HF
ISOLATION AND IDENTIFICATION OF 24,25-DIHYDROXYCHOLCALCIFEROL, A METABOLITE OF VITAMIN-D3 MADE IN
KIDNEY
BIOCHEM., 11, 4251, 1972
- 587 72 108 HOLMAN RT NICHOLS PC
CHARACTERIZATION OF LIPIDS OF SOME ORCHIDS.
PHYTOCHEM., 11, 333, 1972
- 587 72 109 HORNING MG HEBERT RM ROTH RJ
EFFECTS OF ETHYL P-CHLOROPHENOXYISOBUTYRATE ON BILIARY SECRETION OF BILE ACIDS, CHOLESTEROL, AND
PHOSPHATIDYL CHOLINE
LIPIDS, 7, 114, 1972
- 587 72 110 HORTON EW
PROSTAGLANDINS
PROC. ROY. SOC. (LONDON), SER. B, 182, 411, 1972
- 587 72 111 HOWARTH TT HARRIS TM
BIOGENETIC TYPE SYNTHESIS OF BETA-RESORCYLIC ACIDS. ISOLATION AND CHARACTERIZATION OF THE ALDOL
INTERMEDIATE
JACS, 93, 2506, 1971
- 587 72 112 ICHIBAGA H KOJIMA S INOUE K
STUDIES ON SYNTHETIC SWEETENING AGENTS. 15. METABOLISM OF SODIUM CYCLAMATE. (4). INFLUENCES OF
PHENYLBUTAZONE, PHENOBARBITAL, AND TOLBUTAMIDE ON METABOLISM OF SODIUM CYCLAMATE IN RABBITS
CHEM. PHARM. BULL. (TOKYO), 20, 175, 1972
- 587 72 113 IKEGAMI S KAMIYA Y TAMURA S
NEW STEROL FROM ASTEROSAPONINS-A AND B (CORRELATION WITH PREGNOLONE)
TETRAHEDRON LETS, P1601, 1972
- 587 72 114 IKEKAWA N MATSUI M (1) YOSHIDA T (1) MERISAKI M (2) HIRAYAMA K (2)
1. COMPOSITION OF TRIGLYCERIDES AND CHOLESTERYL ESTERS IN SOME FISH OILS OF SALT, BRACKISH, AND
FRESH WATER ORIGINS. 2. TWO NEW STEROLS FROM FUCUS EVANESCENS
BULL. JAP. SOC. SCI. FISHERIES, 38, 1267, 1972 AND PHYTOCHEM., 11, 2317, 1972
- 587 72 115 IM WB
BACTERIAL DEGRADATION OF BIOTIN. 5. METABOLISM OF C(14)-CARBOXYL LABELED BIOTIN D-SULFOXIDE
J. BIOL. CHEM., 245, 6269, 1970
- 587 72 116 JACOB J ZEMAN A
1. UROPYGIAL GLAND FAT OF COOT (FULICA ATRA). 2. UROPYGIAL GLAND FATS OF GREENFINCH, BULLFINCH, AND
LINNET. 3. UROPYGIAL GLAND FAT FROM RING DOVE (COLUMBA PALUMBUS). 4. UROPYGIAL GLAND WAX FROM
KITTIWAKE (RISSA TRIDACTYLA). 5. UROPYGIAL GLAND WAX FROM COMMON SCOTER (MELANITTA NIGRA).
Z. NATURFORSCH., 26B, 1344 AND 1352, 1971. Z. PHYSIOL. CHEM., 353, 492, 1972. AND Z. NATURFORSCH.,
27B, 691 AND 695, 1972
- 587 72 117 JOHNSON WS
ACETYLENIC BOND PARTICIPATION IN BIOGENETIC LIKE OLEFINIC CYCLIZATIONS. 1. FORMATION OF
FIVE-MEMBERED RINGS IN MODEL SYSTEMS. 2. SYNTHESIS OF DL-PROGESTERONE
JACS, 93, 4330 AND 4332, 1971
- 587 72 118 JONSSON C ANGGARD E
BIOSYNTHESIS AND METABOLISM OF PROSTAGLANDIN-E2 IN HUMAN SKIN
SCAND. J. CLIN. LAB. INVEST., 29, 289, 1972
- 587 72 119 JURD L CORSE J KING AD
ANTIMICROBIAL PROPERTIES OF 6,7-DIHYDROXY, 7,8-DIHYDROXY, 6-HYDROXY, AND 8-HYDROXYCOUMARINS
PHYTOCHEM., 10, 2971, 1971
- 587 72 120 KAISER R NAEGLI P
BIOGENETICALLY SIGNIFICANT COMPONENTS IN VETIVER OIL
TETRAHEDRON LETS, P2009, 1972
- 587 72 121 KAMETANI T IHARA M (2) TAKAHASHI K (2)
1. STUDIES ON SYNTHESIS OF HETEROCYCLIC COMPOUNDS. CDXXXII. SYNTHESIS OF (+OR-)-THALICSIMIDINE BY A
POSSIBLE BIOSYNTHETIC ROUTE. 2. BIOTRANSFORMATION OF (+)-RETICULINE IN RAT
J. CHEM. SOC. C, P3617, 1971 AND CHEM. PHARM. BULL. (TOKYO), 20, 1587, 1972

- 587 72 122. KARL ANDER S KARLSSON K LEFFLER H
STRUCTURE OF SPHINGOMYELIN OF HONEY BEE (*APIS MELLIFERA*)
BIOCHIM. BIOPHYS. ACTA. 270. 117. 1972
- 587 72 123. KARLSSON K SAMUELSSON BE STEEN GO
IDENTIFICATION OF A XYLOSE CONTAINING CEREBROSIDE IN SALT GLAND OF HERRING GULL
J. LIPID. RES., 13. 169. 1972
- 587 72 124. KAUFMAN DD PLIMMER JR IVAN J
3,3',4,4'-TETRACHLOROAZOXYBENZENE FROM 3,4-DICHLOROANILINE IN MICROBIAL CULTURE
J. AGR. FOOD CHEM., 20. 916. 1972
- 587 72 125. KEARNEY PC PLIMMER JR
METABOLISM OF 3,4-DICHLOROANILINE IN SOILS
J. AGR. FOOD CHEM., 20. 584. 1972
- 587 72 126. KIMURA Y
STRUCTURE OF PESTALOTIN, A NEW METABOLITE FROM *PESTALOTIA CRYPTOMERIAECOLA*
TETRAHEDRON LETRS. P3137, 1971
- 587 72 127. KINDAHL H GRANSTRO E
METABOLISM OF PROSTAGLANDIN-F(1 ALPHA) IN GUINEA PIG
BIOCHIM. BIOPHYS. ACTA. 280. 466. 1972
- 587 72 128. KISHI Y TANINO H COTO T
STRUCTURE CONFIRMATION OF LIGHT-EMITTING MOIETY OF BIOLUMINESCENT JELLYFISH *AQUOREA* (2-AMINOPYRAZINE DERIVATIVES)
TETRAHEDRON LETRS. P2747, 1972
- 587 72 129. KORNREIC M ISSENBERG P
DETERMINATION OF PHENOLIC WOOD SMOKE COMPONENTS AS TRIMETHYLSILYL ETHERS. 'SMOKED FOODS'
J. AGR. FOOD CHEM., 20. 1109. 1972
- 587 72 130. KRASILNI NA KORNWELI TV ROZYNDY BY
MYCOLIC ACIDS OF *MYCOBACTERIUM PARAFFINICUM*
DOKL. AKADE. NAUK SSSR. 201. NO. 5. XXX. 1971 IN RUSSIAN
- 587 72 131. KUNZ W SCHAUDE G THOMAS C
INFLUENCE OF PHENOBARBITAL AND HALOGENATED HYDROCARBONS ON NITROSAMINE CARCINOGENESIS
ORNL-TR-2659. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM Z. KREBSFORSCH., 72. 291-304. 1969. 17P
- 587 72 132. LAINE RA SWEETLEY CC LI Y (1) GRIFFIN PF (2)
1. ON STRUCTURE OF CYTOLIPIN-R, A CERAMIDE TETRAHEXOSIDE HAPTEN FROM RAT LYMPHOSARCOMA. 2. MONOQUCOSYLCYCLODECADECENIC ACID-GLYCOLIPID FROM *ASPERGILLUS NIGER*)
J. LIPID RES., 13. 519. 1972 AND BIOCHEM., 11. 2267. 1972
- 587 72 133. LAMARTIN CA ITOM H DEMPSEY WB
ALPHA-DIALKYLAMINO ACID TRANSAMINASE FROM *PSEUDOMONAS CEPACIA*. PURIFICATION, CRYSTALLIZATION, PHYSICAL, AND KINETIC PROPERTIES
BIOCHEM., 10. 4783. 1971
- 587 72 134. LANGE R HOFFMANN D
ESSIGS AURE-CIS-DODECEN-(9)-YL-ESTER, EIN INHIBITOR DES SEXUAL PHEROMONS DES KIEFERNKNOSENTRIEBWICKLERS
NATURWISSENSCHAFTEN. 59. 217. 1972
- 587 72 135. LARN O LINDBERG B SVENSSON S KABAT EA
STRUCTURAL STUDIES ON *PNEUMOCOCCUS* TYPE II CAPSULAR POLYSACCHARIDE
CARBOHYD. RES., 22. 391. 1972
- 587 72 136. LAVIE D
1. LIMONIDS OF BIOGENETIC INTEREST FROM *MELIA AZADIRACHTA* L. 2. MELIANE-MELIAOIN RELATIONSHIP
TETRAHEDRON. 27. 3927 AND 3941. 1971
- 587 72 137. LEDERER E
CORRELATION OF CHEMICAL STRUCTURE AND BIOLOGICAL ACTIVITY OF MYCOBACTERIAL CELL WALLS AND DERIVED LIPIDS
BIOCHEM. J., 128. 17. 1972
- 587 72 138. LEE CY LIN JS (2) WEI JW (2)
1. CHEMISTRY AND PHARMACOLOGY OF POLYPEPTIDE TOXINS IN SNAKE VENOMS. 2. IDENTIFICATION OF CARDIOTOXIN WITH COBRAMINE-B, DLF, TOXIN AND COBRA VENOM CYTOTOXIN
1. ANNU. REV. PHARMACOL., 12. 265. 1972. 2. AD-748 057. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD. VA. 22151. 1972
- 587 72 139. LEE HJ WALLER GR
1. RICININE METABOLISM AND TRANSLOCATION IN *RICINUS COMMUNIS*. 2. BIOSYNTHESIS OF PYRIDINE ALKALOIDS FROM *TRIPTERYGium WILFORDII*
PHYTOCHEM., 11. 965 AND 2233. 1972
- 587 72 140. LEE PK CAREW DP ROSAZZA J
APOCYNUM CANNABINUM TISSUE CULTURE. GROWTH AND CHEMICAL ANALYSIS
LLOYDIA. 35. NO. 2. 150. 1972
- 587 72 141. LEETE E OLSON JO
BIOSYNTHESIS AND METABOLISM OF THE HEMLOCK ALKALOIDS
JACS. 94. 5472. 1972
- 587 72 142. LIN RL
METABOLISM OF RETINOIC ACID
THESIS. OKLAHOMA STATE UNIV., STILLWATER. UNIV. MICROFILMS ORDER NO. 70-21,520. DISS. ABS., 31B. 8. 4490. 1971
- 587 72 143. LISBOA BP BREUER H (1) WITSCHI E (1) PLASSE J (2)
1. STUDIES ON METABOLISM OF STEROID HORMONES OF VERTEBRATES. IX. METABOLISM OF 4-C(14)-TESTOSTERONE IN LIVER OF AFRICAN WATER FROG (*XENOPUS LAEVIS*). 2. STUDIES ON METABOLISM OF STEROIDS IN FOETUS. METABOLISM OF 4-ANDROSTENE-3,17-DIONE BY HUMAN FOETAL-LIVER MICROSOMES
2. PHYSIOL. CHEM., 353. 1907. 1972 AND EUR. J. BIOCHEM., 31. 378. 1972

- 587 72 144 LOEW P
A SHORT STERESELECTIVE SYNTHESIS OF CECROPIA JUVENILE HORMONE. EXPERIMENTAL DETAILS
PROC. NAT. ACAD. SCI. U.S.A., 67, 1824, 1970
- 587 72 145 LUND E KJELDGAARD NO
METABOLISM OF GUANOSINE TETRAPHOSPHATE IN ESCHERICHIA COLI
EUR. J. BIOCHEM., 28, 316, 1972
- 587 72 146 MACCONNELL JG
CHEMISTRY OF FIRE ANT VENOM
TETRAHEDRON, 27, 1129, 1971
- 587 72 147 MANNERS G
BIOGENETIC TYPE SYNTHESIS OF ISOPRENOL AND DIISOPRENOL DERIVATIVES OF ORCINOL
TETRAHEDRON, 28, 2949, 1972
- 587 72 148 MANS RJ
IN VITRO BIOSYNTHESIS OF PLANT PROTEINS AND NUCLEIC ACIDS
ORO-3982-19, PROGRESS REPORT, AUG. 1971 - AUG. 1972, ORO-3982-20, COMPREHENSIVE REPORT OF OVERALL
ACTIVITIES, AUG. 1969 - AUG. 1972, 10P AND 4P, FLORIDA UNIV., GAINESVILLE, NTIS
- 587 72 149 MAPSON LW WARDALE DA
ROLE OF INDOLYL-3-ACETIC ACID IN FORMATION OF ETHYLENE FROM 4-METHYLMERCAPTO-2-OXO BUTYRIC ACID BY
PEROXIDASE
PHYTOCHEM., 11, 1371, 1972
- 587 72 150 MARKS DB KELLER BJ GUARINO AJ
GROWTH OF UNICELLULAR FORMS OF FUNGUS CORDYCEPS MILITARIS AND ANALYSIS OF CHEMICAL COMPOSITION OF
THEIR WALLS
J. GEN. MICROBIOL., 69, 253, 1971
- 587 72 151 MARQUEZ ED
STUDIES ON ENERGY METABOLISM AND NITRATE REDUCTASE ACTIVITY IN AN EXTREME HALOPHILE
THESIS, UNIV. SOUTHERN CALIFORNIA, LOS ANGELES, UNIV. MICROFILMS ORDER NO. 72-11940, DISS. ABS.,
328, 10, 5948, 1972
- 587 72 152 MARSHALL RS
ALDRIN EPOXIDATION BY NONENZYMATIC SYSTEMS AND ITS INHIBITION BY INSECTICIDE SYNERGISTS
THESIS, CORNELL UNIV., ITHACA, NEW YORK, UNIV. MICROFILMS ORDER NO. 72-8967, DISS. ABS., 328, 9,
5233, 1972
- 587 72 153 MARTIN JR
(8S)-8-HYDROXY-5,6-DIDEOXY-5-OXOERYTHRONOLIDE-B, A SHUNT METABOLITE OF ERYTHROMYCIN BIOSYNTHESIS. V.
STUDIES ON THE BIOSYNTHESIS OF THE ERYTHROMYCINS. V. CONFORMATION OF MACROLIDE ANTIBIOTICS. V.
TETRAHEDRON, 28, 2937, 1972
- 587 72 154 MAVIS RD VAGELOS PR
EFFECT OF PHOSPHOLIPID FATTY ACID COMPOSITION ON MEMBRANE ENZYMES IN ESCHERICHIA COLI
J. BIOL. CHEM., 247, 652, 1972
- 587 72 155 MCCHESENEY JD BEAL DK FOX RM
RAPID QUALITATIVE IDENTIFICATION OF BARBITURATES BY MASS SPECTROMETRY
J. PHARM. SCI., 61, 310, 1972
- 587 72 156 MCCORKINDALE NJ ROY TP HUTCHINS SA
ISOLATION AND SYNTHESIS OF 3-CHLORODENTISYL ALCOHOL-A METABOLITE OF PENICILLIUM CANADENSE (UV
SPECTRA OF HYDROQUINONES)
TETRAHEDRON, 28, 1107, 1972
- 587 72 157 MCDONOUGH LM GEORGE DA DUTT DA RUTH JM HILL KR
SEX PHEROMONE OF THE CODLING MOTH. STRUCTURE AND SYNTHESIS
SCIENCE, 177, 177, 1972
- 587 72 158 MCKINNEY JD OSWALD E (1) FISHBEIN L (1)
1. ON MECHANISM OF FORMATION OF MANNICH BASES AS SAFOLE METABOLITES. 2. DETERMINATION OF
AFATOXIN-M1 IN RAW MILK: A MODIFIED JACOBSON, HARMAYER, AND WESEMAN METHOD
BULL. ENVIRON. CONTAM. TOXICOL., 7, 305, 1972 AND J. AMER. OIL. CHEM. SOC., 49, NO. 7, 444, 1972
- 587 72 159 MEAD JF HARE RS
ALPHA OXIDATION OF CEREBRONIC ACID IN BRAINS FROM SCORBUTIC AND ASCORBIC ACID-SUPPLEMENTED GUINEA
PIGS
UCLA-12-842, CALIFORNIA UNIV., LOS ANGELES, LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY, 8P, NTIS
- 587 72 160 MEINWALD J OTTENHEIM HCJ (2) OPHEIM K (3) EISNER T (3)
1. PHEROMONES. VII. AFRICAN MONARCH: MAJOR COMPONENTS OF HAIRPENCIL SECRETION. 2. STUDIES IN
PHEROMONE CHEMISTRY. ANALOGS OF A HETEROCYCLIC INSECT SEX PHEROMONE. 3. GYRINIDAL SESQUITERPENOID
ALDEHYDE FROM DEFENSIVE GLANDS OF GYRINID BEETLES.
TETRAHEDRON LETS, P3485, 1971, TETRAHEDRON, 27, 3307, 1971, AND PROC. NAT. ACAD. SCI. U.S.A., 69,
1208, 1972
- 587 72 161 MENN JJ BEROZA M
INSECT JUVENILE HORMONES. CHEMISTRY AND ACTION
BOOK, ACADEMIC PRESS, NEW YORK, N.Y., 1972, 352P, PROCEEDINGS OF SYMPOSIUM ON THE CHEMISTRY AND
ACTION OF INSECT JUVENILE HORMONES, WASHINGTON, D.C., SEPT. 12-17, 1971
- 587 72 162 METZLER M BEUMANN HG
ZUR BEDEUTUNG CHEMISCH-BIOLOGISCHER WECHSELWIRKUNGEN FÜR DIE TOXISCHE UND KREBSERZEUGENDE WIRKUNG
AROMATISCHER AMINO. 3. SYNTHESE UND ANALYTIK EINIGER STOFFWECHSELPRODUKTE VON
TRANS-4-DIMETHYLAMINOSTILBEN, CIS-4-DIMETHYLAMINOSTILBEN, UND 4-DIMETHYLAMINOBIENZYL
TETRAHEDRON, 27, 2225, 1971
- 587 72 163 MITSCHER LA MARTIN LL FELLER DR
BIOSYNTHESIS OF SPECTINOMYCIN
J. CHEM. SOC. C, NO. 23, XXX, 1971
- 587 72 164 MOKOTOFF M PARIKH BS
POTENTIAL INHIBITORS OF L-ASPARAGINE BIOSYNTHESIS. 1. BETA-ELIMINATION REACTIONS WITH
BETA-HYDROXYASPARTIC ACID DERIVATIVES
J. ORG. CHEM., 37, 2786, 1972

- 587 72 165 MOODY K
AEROTHIONIN AND HOMOAEROTHIONIN: TWO TETRABROMOSPIROCYCLOHEXADIENYLISOXAZOLES FROM VERONGIA SPONGES
J. CHEM. SOC., PERKIN TRANS., 1, P18, 1972
- 587 72 166 MORRIS RN COLLINS AC
BIOSYNTHESIS OF MYO-INOSITOL BY RAT TESTIS FOLLOWING SURGICALLY INDUCED CRYPTORCHIDISM OR TREATMENT
WITH TRIETHYLENEMELAMINE
J. REPROD. FERT., 27, 201, 1971
- 587 72 167 MOUNTS TL EMKEN EA ROHWEDDE WK
METABOLISM OF LABELED ISOMERIC OCTADECENOATES BY LAYING HEN
LIPIDS, 6, 912, 1971
- 587 72 168 MURATA T
STUDIES ON KONJAK MANNAN BIOSYNTHESIS. 1. ANALYTICAL STUDY ON CARBOHYDRATES DURING GROWTH ON KONJAK
PLANTS
J. AGR. CHEM. SOC. JAPAN, 46, 1, 1972
- 587 72 169 NAGARAJAN R
BETA-LACTAM ANTIBIOTICS FROM STREPTOMYCES
JACS, 93, 2308, 1971
- 587 72 170 NAIR MS ANCHEL M
METABOLIC PRODUCTS OF CLITOCYBE ILLUDENS. 9. STRUCTURE OF ILLUDACETALIC ACID AND ITS CONVERSION TO
ILLUDININE
TETRAHEDRON LETS, P2753, 1972
- 587 72 171 NAIR PP MURTY HS CAASI PT
VITAMIN E. REGULATION OF BIOSYNTHESIS OF PORPHYRINS AND HEME
J. AGR. FOOD CHEM., 20, 476, 1972
- 587 72 172 NAKANISHI K
BIOSYNTHESIS OF ALPHA AND BETA-ECDOYSONES FROM CHOLESTEROL OUTSIDE PROTHORACIC GLAND IN BOMBYX MORI
SCIENCE, 176, 61, 1972
- 587 72 173 NEAL RB HAMBERG M MISHRA D
INTRAPROSTATIC INJECTIONS OF CANINES USING METHOTREXATE (4-AMINO-N(10)-METHYL PTEROYLGLUTAMIC ACID)
INVEST. UROLOGY, 9, 454, 1972
- 587 72 174 NICOLAU M DE ASSIS LM
CATFCHOL AMINES: SYNTHESIS, METABOLISM, AND ACTIONS
IEA-201. INSTITUTO DE ENERGIA ATOMICA, SAO PAULO, BRAZIL, DEC. 1969, 4SP IN PORTUGUESE. NTIS.
TRANSLATED FROM REV. HOSP. CLIN., FAC. MED., UNIV. SAO PAULO, 25, 105-22, 1970
- 587 72 175 NILSSON EH BELFRAGE P
MONOGLYCERIDE HYDROLYZING ENZYME IN HUMAN POSTHEPARIN PLASMA
BIOCHIM. BIOPHYS. ACTA, 270, 69, 1972
- 587 72 176 NILSSON JL NILSSON IM AGURELL S
SYNTHESIS OF A POTENTIAL URINARY TETRAHYDROCANNABINOL METABOLITE
ACTA PHARM. SUEC., 9, 215, 1972
- 587 72 177 NISHIMURA K ODAKA T NAGAI Y
ALTERATION OF GLYCOLIPID, COMPOSITION OF SPLEEN IN FRIEND LEUKEMIA VIRUS INFECTED MICE
JAP. J. EXP. MED., 42, 177, 1972
- 587 72 178 NO AUTHOR
MERCURY CONTAMINATION IN MAN AND HIS ENVIRONMENT
STI/DOC-10/137. INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA, AUSTRIA, JULY 1972, 181P. NTIS AND IAEA
- 587 72 179 OGURA K
ENZYMIC FORMATION OF SQUALENE HOMOLOGS FROM FARNESYL PYROPHOSPHATE HOMOLOGS
JACS, 94, 307, 1972
- 587 72 180 OKUDA K HORNING MG HORNING EC
ISOLATION OF A NEW BILE ACID, 3ALPHA,7ALPHA,12ALPHA-TRIHIDROXY-SALPHA-CHOLESTAN-26-OIC ACID, FROM
LIZARD BILE
J. BIOCHEM. (TOKYO), 71, 885, 1972
- 587 72 181 O'NEILL RV BURKE OW
SIMPLE SYSTEMS MODEL FOR DDT AND DDE MOVEMENT IN THE HUMAN FOOD-CHAIN
ORNL-IEP-71-9. OAK RIDGE NATIONAL LAB., TENN., NOV. 1971, 18P. NTIS
- 587 72 182 OSRETKAR A
GASEOUS AND OTHER NITROGEN LOSSES FROM CULTURES OF CHLORELLA
THESIS, UNIV. OF MARYLAND, COLLEGE PARK, UNIV. MICROFILMS ORDER NO. 72-12,766. DISS. ABS., 328, 10,
5633, 1972
- 587 72 183 PARKER HI
RINGSYNTHETIC CONVERSION OF THEBAINE TO CODEINE
JACS, 94, 1276, 1972
- 587 72 184 PELHAM RW
MASS SPECTRAL IDENTIFICATION OF MELATONIN IN BLOOD
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 1236, 1972
- 587 72 185 PETTIT GR KAMANO Y
STRUCTURE OF STEROID TOAD VENOM CONSTITUENT BUFOTOXIN
J. CHEM. SOC., CHEM. COMMUN., P45, 1972
- 587 72 186 PLASSE J GUSTAFSSON J LISBOA BP
METABOLISM OF TESTOSTERONE IN RAT PROSTATE
STER., 2, NO. 4, 193, 1971
- 587 72 187 POHL P WAGNER H PASSIG T (1)
1. UBER DEN EINFLUSS VON ANORGANISCHER STICKSTOFF-GEHALT IN DER NAHRLOSUNG AUF DIE
FETTSÄURE-BIOSYNTHESE IN GRUNALGEN, 2. CONTROL OF FATTY ACID AND LIPID BIOSYNTHESIS IN EUGLENA
GRACILIS BY AMMONIA, LIGHT, AND OCMU
PHYTOCHEM., 10, 1606, 1971 AND 2. NATURFORSCH., 278, 53, 1972

- 587 72 188 POULTER CO
SOLVOLYSIS OF N-METHYL-4-(CHRYSANTHEMYLOXY) PYRIDINIUM IODIDE: A MODEL FOR NON-HEAD-TO-TAIL
MONOTERPENE BIOSYNTHESIS
TETRAHEDRON LETS. 667, 1972
- 587 72 189 RABINOWI JL SHAPIRO IM
LIPIDS OF BOVINE SKIN COLLAGEN
ARCH. ORAL BIOL. 17, 547, 1972
- 587 72 190 RAJSTRICK H RICE FAH
2,3-DIHYDRO-3,6-DIHYDROXY-2-METHYL-4-PYRONE AND CURVULAIN FROM PENICILLIUM GILMANII
J. CHEM. SOC. C, P3069, 1971
- 587 72 191 RAMSEY RB JONES JP NICHOLAS HJ
BIOSYNTHESIS OF CHOLESTEROL AND OTHER STEROLS BY BRAIN TISSUE. DISTRIBUTION IN SUBCELLULAR FRACTIONS
AS A FUNCTION OF TIME AFTER INTRACEREBRAL INJECTION OF R2-(14)CINEMALONIC ACID INTO 30-DAY-OLD RAT
BRAIN PERIOD
J. NEUROCHEM., 19, 931, 1972
- 587 72 192 RAD GS
MASS SPECTROMETRIC IDENTIFICATION OF METHYLXANTHINES AND METHYLURIC ACIDS. THE POSSIBLE METABOLITES
OF CAFFEINE
J. PHARM. SCI., 61, 1822, 1972
- 587 72 193 REINERT M TRENDLE F
CORRELATION BETWEEN PARAMETERS OF BREATHING MECHANICS, RESPIRATORY GASES, AND BLOOD GASES IN
PATIENTS WITH CHRONIC BRONCHIAL OBSTRUCTION
RESPIRATION, 25, 223, 1972
- 587 72 194 RICHLE W
STOFFWECHSELPRODUKTE VON MIKROORGANISMEN. DIE STRUKTUR DES CINERUBINS-B
HELV. CHIM. ACTA, 55, 467, 1972
- 587 72 195 ROBERTS JC THOMPSON DJ
STUDIES IN MYCOLOGICAL CHEMISTRY. 27. REINVESTIGATION OF STRUCTURE OF PURPUGONONE, A METABOLITE OF
PENICILLIUM PURPUGENUM STOLL
J. CHEM. SOC. C, P3488, 1971
- 587 72 196 ROBYT JF ACKERMAN RJ
ISOLATION, PURIFICATION, AND CHARACTERIZATION OF A MALTOTETRAOSE-PRODUCING AMYLASE FROM PSEUDOMONAS
STUTZERI
ARCH. BIOCHEM. BIOPHYS., 145, 105, 1971
- 587 72 197 ROSENTIN GN MERRITT CB VAAL LA
RHESUS LYMPHOCYTE ALLOANTIGENS. 2. SEROLOGIC, GENETIC, AND CHEMICAL CHARACTERISTICS
TRANSPLANT. PROC., 4, 21, 1972
- 587 72 198 ROLLER P
TERPENOIDS. 67. CHEMICAL STUDIES OF MARINE INVERTEBRATES. 7. INTERRELATION OF SEYCHELLOGENIN AND
LANOSTEROL THROUGH LANOSTANE-3,11,18-TRIOL
J. ORG. CHEM., 35, 2585, 1970
- 587 72 199 ROSENBLU C TRENNER NR BUNS RP
METABOLISM OF RONIDAZOLE (1-METHYL-5-NITROIMIDAZOL-2-YLMETHYL CARBAMATE)
J. AGR. FOOD CHEM., 20, 360, 1972
- 587 72 200 ROTH JA NEAL RA (2)
1. BACTERIAL DEGRADATION OF BIOTIN. 4. METABOLISM OF C-14-CARBONYL LABELED BIOTIN L-SULFOXIDE. 2.
SPECTRAL STUDIES OF BINDING OF D,D-DIETHYL-P-NITROPHENYLPHOSPHOROTHIONATE (PARATHION) TO
CYTOCHROME P-450
J. BIOL. CHEM., 245, 6264, 1970 AND BIOCHEM., 11, 955, 1972
- 587 72 201 RUEPPEL ML RAPOPORT H
ABERRANT ALKALOID BIOSYNTHESIS: FORMATION OF NICOTINE ANALOGS FROM UNNATURAL PRECURSORS IN NICOTIANA
GLUTINOSA
JACS, 93, 7021, 1971
- 587 72 202 SAFE S TAYLOR A
SPORIDESMINS. 13. OVINE III-THRIFT IN NOVA SCOTIA. 3. CHARACTERISATION OF CHETOMIN, A TOXIC
METABOLITE OF CHAETOMIUM COCHLIDIOS AND CHAETOMIUM GLOBOSUM
J. CHEM. SOC., PERKIN TRANS., I, P472, 1972. AD-745 579
- 587 72 203 SAMMON PF NEUMAN WF
METABOLISM OF LABELED PARATHYROID HORMONE. 2. BLOOD DISAPPEARANCE AND TISSUE DISTRIBUTION
UR-3490-105. ROCHESTER UNIV., N.Y., DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS, 1972. 28P. NTIS
- 587 72 204 SAMON PJ BRAND JS NEUMAN WF RAISZ LG
METABOLISM OF LABELED PARATHYROID HORMONE. 1. PREPARATION OF BIOLOGICALLY ACTIVE I(125)-LABELED
PARATHYROID HORMONE
UR-3490-104. ROCHESTER UNIV., N.Y., SCHOOL OF MEDICINE AND DENTISTRY, 1972. 24P. NTIS
- 587 72 205 SAMUELSSON B
SYNTHESIS AND BIOLOGICAL ROLE OF PROSTAGLANDINS
BIOCHEM. J., 128, 4, 1972
- 587 72 206 SASTRY SD WALLER GR
BIOSYNTHESIS OF N-METHYL-5-CARBOXAMIDE-2-PYRIDONE FROM TREWIA NUOIFLORA
PHYTOCHEM., 11, 2241, 1972
- 587 72 207 SATO S OGAHARA H TAMIYA N
IMMUNOCHEMISTRY OF ERABUTOXINS
TOXICON, 10, 239, 1972
- 587 72 208 SATO Y KOBAYASHI Y NAGASAKI T
STUDIES ON NEW BETA-ADRENERGIC BLOCKING AGENTS. 1. SYNTHESIS AND PHARMACOLOGY OF COUMARIN
DERIVATIVES
CHEM. PHARM. BULL. (TOKYO), 20, 905, 1972
- 587 72 209 SCANNELL JP
L-5-(2,5-DIHYDROPHENYL)ALANINE, AN ANTIMETABOLITE OF L-PHENYLALANINE PRODUCED BY A STREPTOMYCETE
J. ANTIBIOT. (TOKYO), 23, 618, 1970

- 587 72 210 SCHAEFFE RC BERNICK S ROSENQUI TH
HISTOCHEMISTRY OF VENOM GLANDS OF RATTLESNAKE CROTALUS VIRIDIS HELLERI. 1. LIPID AND NONSPECIFIC
ESTERASE. 2. MONOAMINE OXIDASE, ACID AND ALKALINE PHOSPHATASE
TOXICON. 10. 183 AND 295. 1972
- 587 72 211 SCHEIN PS ALBERTI KG WILLIAMS DM
EFFECTS OF STREPTOZOTOCIN ON CARBOHYDRATE AND LIPID METABOLISM IN RAT
ENDOCRINOLOGY. 89. 827. 1971
- 587 72 212 SCHILDKN H TAUSCHER B KRAUSS D (1) NEUMAIER H (2)
1. DER DUFTSTOFF DES TAUMELKÄPERS GYRINUS NATATOR L. 2. DEFENSIVE SUBSTANCES OF ARTHROPODES. LV.
GYRINAL, A SUBSTANCES OF PYCIDIAL GLANDS OF GYRINIDAE (COLEOPTERA CARABIDAE)
CHEM.-Z., CHEM. APPARATUR. 96. 33. 1972 AND ANN. CHEM., 756. 155. 1972
- 587 72 213 SCHREIER P HEIMANN W
UBER DAS LIPOXYGENASE-LIPOPEROXIDASE-SYSTEM IN CEREALIEN. 2. CHARAKTERISIERUNG DES
HYDROPEROXIDE-ABBAUENDEN ENZYMS
HELV. CHIM. ACTA. 54. 2803. 1971
- 587 72 214 SCHUBERT J SEDVALL G
ACCUMULATION AND DISAPPEARANCE OF H(3)-5-HYDROXYTRYPTAMINE FORMED IN VIVO FROM H(3)-TRYPTOPHAN IN
VARIOUS REGIONS OF RAT BRAIN
EUR. J. PHARMACOL., 17. 75. 1972
- 587 72 215 SCHUBERT K SCHLEGEL J (2) GROH H (2)
1. ABBAU VON STEROIDEN. XIII. HYDROXYLIERUNG VON 17ALPHA-METHYLOSTRADIOL IN 2. 4. UND
6ALPHA-STELLUNG DURCH ASPERGILLUS FLAVUS. 2. STOFFWECHSEL VON STEROIDPHARMAKA. VIII.
STRUKTUR-STOFFWECHSEL-BEZIEHUNGEN BEI DER MIKROBIELLEN HYDRIERUNG UNTERSCHIEDLICH SUBSTITUIERTER
TESTOSTERONDERIVATE
J. STEROID BIOCHEM., 2. NO. 4. 181. 1971 AND ENDOCRINOLOGIE, 59. 99. 1972
- 587 72 216 SCOTT AI
BIOGENETIC TYPE SYNTHESIS OF POLYKETIDES. 8. EXPERIMENTS WITH TETRA AND HEXAACETATE SYSTEMS. 9.
MODEL FOR BIOSYNTHESIS OF 6-METHYL SALICYLIC ACID. 10. SYNTHESIS AND REACTIONS OF HEPTA AND
NONA-BETA-CARBONYL CHAINS AS SUBSTRATE MODELS
TETRAHEDRON. 27. 3025. 3039. AND 3051. 1971
- 587 72 217 SCOTT M PHILLIPS R
DIFFUSION OF SELECTED HERBICIDES IN SOIL
SOIL SCI. SOC. AMER., PROC., 36. 715. 1972
- 587 72 218 SEILER N
MASS SPECTROMETRIC IDENTIFICATION OF BIOGENIC AMINES AS 1-DIMETHYLAMINONAPHTHALENE-5-SULFONYL
DERIVATIVES
Z. ANAL. CHEM., 252. 127. 1970 IN GERMAN
- 587 72 219 SHEIKA YM TURSCHI BM DJERASSI C
SALPHA-PREGN-9(11)-ENE-3BETA,6ALPHA-DIOL-20-ONE AND SALPHA-CHOLESTA-9(11),20(22)-DIENE-3BETA,6
ALPHA-DIOL-23-ONE. TWO NOVEL STEROIDS FROM THE STARFISH ACANTHASTER PLANCHI. (THREATENS PACIFIC
CORAL REEFS, PISASTER OCHRACEUS, MARTHASTERIA GLACIALIS, WATER BEETLE DEFENSIVE SECRETIONS)
JACS. 94. 3278. 1972
- 587 72 220 SHIMIZU S TANI Y OGATA K
STUDIES ON METABOLISM OF PANTOTHENIC ACID IN MICROORGANISMS. 3. FORMATION OF COENZYME-A BY
BREVIBACTERIUM AMMONIAGENES IFO-12071
AGR. BIOL. CHEM. (TOKYO), 36. 370. 1972
- 587 72 221 SINGH J
STUDIES ON THE GENUS PIPER. 12. STRUCTURE OF TRICHONINE. A NEW N-PYRROLIDINYL
EICOSA-TRANS-2-TRANS-4-DIENAMIDE
TETRAHEDRON LETS. P2119. 1971
- 587 72 222 SINHA AK BHATTACH JK
LYSINE BIOSYNTHESIS IN SACCHAROMYCES. CONVERSION OF ALPHA-AMINOADIPATE INTO ALPHA-AMINOADIPIC
DELTA-SEMIALDEHYDE
BIOCHEM. J., 125. 743. 1971
- 587 72 223 SISEWIN SF TIO CO SHRADER SR
BIOTRANSFORMATION OF OXAZEPAM (7-CHLORO-1,3-DIHYDRO-3-HYDROXY-5-PHENYL-2H-1,4-BENZODIAZEPIN-2-ONE)
IN MAN, MINIATURE SWINE, AND RAT
ARZNEI.-FORSCH., 22. 682. 1972
- 587 72 224 SMITH FA
BIOLOGICAL PROPERTIES OF CERTAIN COMPOUNDS CONTAINING THE C-F BOND
UR-49-1508. ROCHESTER UNIV., N.Y., DEPT. OF RADIATION BIOLOGY AND BIOPHYSICS. 1971. 36P.
CONF-710913-3. NTIS. FROM 162ND NATIONAL MEETING OF THE AMERICAN CHEMICAL SOCIETY, WASHINGTON, D.
C., SEPT. 12. 1971
- 587 72 225 SNEEDEN W PARKER RB
DETERMINATION OF VOLATILE CONSTITUENTS OF HUMAN BLOOD AND TISSUE SPECIMENS BY QUANTITATIVE HIGH
RESOLUTION MASS SPECTROMETRY
ANAL. CHEM., 43. 1651. 1971
- 587 72 226 SNYDER F
ETHER LIPIDS. CHEMISTRY AND BIOLOGY
BOOK, ACADEMIC PRESS, NEW YORK, N.Y., 1972. 458P
- 587 72 227 SPENCER H MO YK
ISOLATION AND STRUCTURE OF MONOCHAETIN, A METABOLITE OF THE FUNGUS MONOCHAETIA COMPTA
CAN. J. CHEM., 48. 3654. 1970
- 587 72 228 STEYN PS
AUSTAMIDE, A NEW TOXIC METABOLITE FROM ASPERGILLUS USTUS
TETRAHEDRON LETS. P3331. 1971
- 587 72 229 STOKES DM WALKER DA
PHOTOSYNTHESIS BY ISOLATED CHLOROPLASTS. INHIBITION BY DL-GLYCERALDEHYDE OF CARBON DIOXIDE
ASSIMILATION
BIOCHEM. J., 128. 1147. 1972

- 587 72 230 SUZUKI N GOTO T
FIREFLY BIOLUMINESCENCE. 2. IDENTIFICATION OF 2-(6'-HYDROXYBENZOTHAZOL-2'-YL)-4-HYDROXYTHIAZOLE AS
A PRODUCT IN THE BIOLUMINESCENCE OF FIREFLY LANTERNS AND AS A PRODUCT IN THE CHEMILUMINESCENCE OF
FIREFLY LUCIFERIN IN DMSO
TETRAHEDRON LETS. P2021. 1971
- 587 72 231 SUZUKI N GOTO T SATO M (1) OKADA K (1)
STUDIES ON FIREFLY BIOLUMINESCENCE. 1. SYNTHESIS AND SPECTRAL PROPERTIES OF FIREFLY OXYLUCIFERIN, A
POSSIBLE EMITTING SPECIES IN FIREFLY BIOLUMINESCENCE (4-THIAZOLONES). 2. IDENTIFICATION OF
OXYLUCIFERIN AS A PRODUCT IN BIOLUMINESCENCE OF FIREFLY LANTERNS AND IN CHEMILUMINESCENCE OF
FIREFLY LUCIFERIN
TETRAHEDRON. 28. 4065 AND 4075. 1972
- 587 72 232 SVENSSON S
EFFECT OF COUMARIN ON GROWTH, PRODUCTION OF DRY MATTER, PROTEIN, AND NUCLEIC ACIDS IN ROOTS OF MAIZE
AND WHEAT, AND INTERACTION OF COUMARIN WITH METABOLIC INHIBITORS
PHYSIOL. PLANT., 27. 13. 1972.
- 587 72 233 TABATA M YAMAMOTO H HIRAKA N
ORGANIZATION AND ALKALOID PRODUCTION IN TISSUE CULTURES OF SCOPOLIA PARVIFLORA
PHYTOCHEM., 11. 949. 1972
- 587 72 234 TAKAYAMA K GOLDMAN DS
ENZYMATIC SYNTHESIS OF MANNOSYL-1-PHOSPHORYLDECAPRENOL BY A CELL-FREE SYSTEM OF MYCOBACTERIUM
TUBERCULOSIS
J. BIOL. CHEM., 245. 6251. 1970
- 587 72 235 TANI Y OGATA K UKITA M (2)
STUDIES ON VITAMIN-B6 METABOLISM IN MICROORGANISMS. (1) IX. MICROBIAL PHOSPHORYLATION OF VITAMIN-B6
THROUGH A NEW PHOSPHOTRANSFERRING REACTION (5) PHOSPHORYLATION OF PYRIDOXINE BY SEVERAL
PHOSPHATASES. (2) X. FURTHER PURIFICATION AND CHARACTERIZATION OF PYRIDOXAMINE 5'-
PHOSPHATE-ALPHA-KETOGLUTARATE TRANSAMINASE FROM CLOSTRIDIUM KAINANTOI
AGR. BIOL. CHEM. (TOKYO), 36. 173 AND 181. 1972
- 587 72 236 TATENATSU A NADAI T YOSHIZUMI H SAKURAI H FURUKAWA H
HAYASHI M
STUDY ON DRUG METABOLITES BY MASS SPECTROMETRY. 2. IDENTIFICATION OF URINARY METABOLITES OF
SULFISCHNEZOLE. 3. METABOLISM OF 7-HYDROXY-4-METHYLCOUMARIN IN RAT
J. PHARM. SOC. JAPAN. 92. 655. 1972 AND MASS SPECTRY. JAPAN. 20. 339. 1972 IN JAPANESE
- 587 72 237 THOMPSON RM
I. IDENTIFICATION OF ERYTHROMYCIN-A IN CULTURES OF STREPTOMYCES GRISEOPLANUS. II. A MASS SPECTRAL
STUDY OF ANTIBACTERIAL MACROLIDES. III. ISOLATION AND PARTIAL CHARACTERIZATION OF THREE NEW
METABOLITES FROM ASPERGILLUS CLAVATUS. IV. PARTIAL STRUCTURES OF OLIGOMYCENS-A AND B
THESIS. UNIV. OF WISCONSIN. MADISON. UNIV. MICROFILMS ORDER NO. 71-25,507. DISS. ABS., 328. 6. 3178.
1971
- 587 72 238 THOMPSON RM
IDENTIFICATION OF GLUCURONIDES IN BILE BY PERMETHYLATION AND MASS SPECTROMETRY
PRESENTED AT AMERICAN CHEMICAL SOCIETY SOUTHWEST REGIONAL MEETING. BATON ROUGE, LA., DEC. 6-8. 1972
- 587 72 239 TORNABEN TG EDWARDS HW
MICROBIAL UPTAKE OF LEAD
SCIENCE. 176. 1334. 1972
- 587 72 240 TRAGER WF

MASS SPECTRAL ANALYSIS IN THE IDENTIFICATION OF HUMAN METABOLITES OF WARFARIN
J. MED. CHEM., 13. 1196. 1970
- 587 72 241 TSCHESCHE R
BIOSYNTHESIS OF CARDENOLIDES, BUPADIENOLIDES, AND STEROID SAPGENINS
PROC. ROY. SOC. (LONDON), SER. B. 180. 187. 1972
- 587 72 242 TSUCHIYA T LEVY G
BIOTRANSFORMATION OF SALICYLIC ACID ON ITS ACYL AND PHENOLIC GLUCURONIDES IN MAN
J. PHARM. SCI., 61. 800. 1972
- 587 72 243 TSURUGI K MORITA T OGATA K
STUDIES ON METABOLISM OF RIBOSOMAL STRUCTURAL PROTEINS OF REGENERATING RAT LIVER. SITES OF
BIOSYNTHESIS OF STRUCTURAL PROTEINS OF LARGE SUBUNIT AND THEIR ASSEMBLY WITH RNA MOIETY
EUR. J. BIOCHEM., 25. 117. 1972
- 587 72 244 TURNER WB ALDRIDGE DC
METABOLITES OF HELMINTHOSPORIUM MONOCERAS: STRUCTURES OF MONOCERIN AND RELATED BENZOPYRANS
J. CHEM. SOC. C. P2598. 1970
- 587 72 245 UEHARA K SUGENO K HAYAKAWA T
STUDIES ON D-TETROSE METABOLISM. 3. FURTHER STUDIES ON ENZYMES FROM BEEF LIVER INVOLVED IN D-TETROSE
METABOLISM
J. VITAMINOL., 17. 190. 1971
- 587 72 246 URAGUCHI K SAITO M NOGUCHI Y TAKAHASH K
CHRONIC TOXICITY AND CARCINOGENICITY IN MICE OF PURIFIED MYCOTOXINS, LUTEOSKYRIN, AND
CYCLCHLOROTINE
FOOD COSMET. TOXICOL., 10. 193. 1972
- 587 72 247 USOV AI MIROSHNI LI KOCHETKOV NK
POLYSACCHARIDES OF ALGAE. 9. SOLVOLYTIC DESULFATING OF POLYSACCHARIDE FROM RED ALGAE LAINGIA
PACIFICA YAMADA
ZH. OBSSHCH. KHIM., 42. 945. 1972 IN RUSSIAN
- 587 72 248 VACHERON M MICHEL G
PRESENCE D'ACIDES DE POIDS MOLECULAIRE ELEVE DANS LES TRIGLYCERIDES ISOLEES DES PARDIS CELLULAIRES DE
NOCARDIA KIROVANI
COMPT. REND., SER. C. 273. 1778. 1971
- 587 72 249 VAN DER WA JP SCOTT DB
PICHIA XYLOPOSOI, A NEW YEAST FROM SOUTH AFRICAN INSECT SOURCES
MYCOPATHOL. MYCOL. APPL., 44. NO. 4. XXX. 1971

- 587 72 250 VAN LIER JE SMITH LL
STEROL METABOLISM. 14. CHOLESTEROL 24-HYDROPEROXIDE
J. ORG. CHEM., 36, 1007, 1971
- 587 72 251 VAVER VA PROKAZOV NV ROZYNOV BV
DIOL CHOLINEPLASMOGENS: A NEW TYPE OF RAT LIVER PHOSPHOLIPIDS
DOKL. AKADE. NAUK SSSR, 205, 477, 1972 IN RUSSIAN
- 587 72 252 VERBISCAR AJ
METABOLISM OF FOREIGN COMPOUNDS: ANNOTATED BIBLIOGRAPHIES
ORNL-TIRC-72-VB-1, -VB-2, -VB-3, AND -VB-4, JUNE 1972, SEPT. 1972, OCT. 1972, AND DEC. 1972, 27P,
29P, 29P, AND 29P. TOXICOLOGY INFORMATION RESPONSE CENTER, OAK RIDGE, TENN. NTIS
- 587 72 253 VESONDER RF STODOLA FH ROHWEDDE WK
FORMATION OF DELTA-LACTONE OF 3,5-DIHYDROXYDECAHOIC ACID BY FUNGUS CEPHALOSPORIUM RECIFEI
CAN. J. BIOCHEM., 50, 363, 1972
- 587 72 254 WALD A HASS WK RANSOHOFF J
EXPERIENCE WITH A MASS SPECTROMETER SYSTEM FOR BLOOD GAS ANALYSIS IN HUMANS
JAAM, 5, NO. 6, 325, 1971
- 587 72 255 WALL ME
IN VITRO AND IN VIVO METABOLISM OF TETRAHYDROCANNABINOL (THC)
ANN. N.Y. ACAD. SCI., NO. 191, 23, 1971
- 587 72 256 WATABE T SUZUKI S
STUDIES ON ENZYMIC HYDROLYSIS OF AZIRIDINES. 2. STEREOSSELECTIVE HYDROLYSIS OF N-SUBSTITUTED 2BETA
-3BETA-IMINO-SALPHA-CHOLESTANES BY HEPATIC MICROSOomal AZIRIDINE HYDROLASE
BIOCHEM. BIOPHYS. RES. COMMUN., 46, 1120, 1972
- 587 72 257 WATANABE M OHKUBO K (1) TAMURA Z (1) MINEGISHI K (2)
STUDIES ON CARCINOGENIC TRYPTOPHAN METABOLITES. 1. ENZYMIC FORMATION AND HYDROLYSIS OF GLUCURONIDE
OF 3-HYDROXYANTHRANILIC ACID. 2. ENZYMIC FORMATION AND HYDROLYSIS OF SULFURIC ESTER OF
3-HYDROXYANTHRANILIC ACID
BIOCHEM. PHARMACOL., 21, 1337 AND 1347, 1972
- 587 72 258 WELLS MA
KINETIC STUDY OF PHOSPHOLIPASE-A2 (CROTALUS ADAMANTEUS) CATALYZED HYDROLYSIS OF 1,2-
DIBUTYRYL-SN-GLYCERO-3-PHOSPHORYLCHOLINE
BIOCHEM., 11, 1030, 1972
- 587 72 259 WHITE JP
STUDIES ON HYDRATION OF ESCHERICHIA COLI RIBOSOMES BY NMR
J. MOL. BIOL., 64, 511, 1972
- 587 72 260 WHITE RF BIRNBAUM J MEYER RT
MICROBIAL EXPOXIDATION OF CIS-PROPENYLPHOSPHONIC TO (-)-CIS-1,2-EPOXYPROPYLPHOSPHONIC ACID
APPL. MICROBIOL., 22, 55, 1971
- 587 72 261 WIKHOLM RJ MOORE HW
DIMETHYL SULFOXIDE-ACETIC ANHYDRIDE OXIDATIVE REARRANGEMENTS OF HYDROXYTERPHENYLQUINONES. A POSSIBLE
BIOSYNTHETIC MODEL
JACS, 94, 6152, 1972
- 587 72 262 WOLCOTT RM NEAL RA VAUGHN WK (1)
1. COMPARISON OF MIXED FUNCTION OXIDASE-CATALYZED METABOLISM OF A SERIES OF DIALKYL-P-NITROPHENYL
PHOSPHOROTHIONATES. 2. EFFECT OF STRUCTURE ON RATE OF MIXED FUNCTION OXIDASE CATALYZED METABOLISM
OF A SERIES OF PARATHION ANALOGS
TOXICOL. APPL. PHARMACOL., 22, 213 AND 676, 1972
- 587 72 263 YAMAZAKI M SUZUKI S SAKAKIIBA Y
TOXICITY OF 5-CHLORO-8-HYDROXY-3,4-DIHYDRO-3-METHYLSOCOUMARIN-7-CARBOXYLIC ACID, A HYDROLYZATE OF
OCHRATOXIN-A
JAP. J. MED. SCI. BIOL., 24, NO. 4, XXX, 1971
- 587 72 264 YOUNG CT MASON ME MATLOCK RS
EFFECT OF MATURITY ON FATTY ACID COMPOSITION OF EIGHT VARIETIES OF PEANUTS GROWN AT PERKINS,
OKLAHOMA IN 1968
J. AMER. OIL CHEM. SOC., 49, 314, 1972
- 587 72 265 YOUNG RG JOHN LS LISK DJ
DEGRADATION OF DDT BY GULFISH
BULL. ENVIRON. CONTAM. TOXICOL., 6, 351, 1971
- 587 72 266 YULE WN HILDEBRAND MJ SMITH GG
DDT IN FOREST TREES AND LUMBER
BULL. ENVIRON. CONTAM. TOXICOL., 8, 19, 1972
- 587 72 267 ZAMFIR I CHIOTAN C
PREPARATION OF METHIONINE-S(35) BY BIOSYNTHESIS
IFA-RP-71, INSTITUTUL DE FIZICA ATOMICA, BUCHAREST, ROMANIA, 1971, 11P IN FRENCH
- 590 72 001 AITKEN EA ADAMSON MG EVANS SK LUDLOW TE
THERMODYNAMIC DATA PROGRAM INVOLVING PLUTONIA AND URANIA AT HIGH TEMPERATURES
GEAP-12210, QUARTERLY REPORT NO. 15, FEB. 1971 - MAY 1971, GENERAL ELECTRIC CO., PLEASANTON, CALIF.,
NUCLEONICS LAB., APRIL 1971, 26P, NTIS
- 590 72 002 ARASE A MASUDA Y ITOH M
THERMAL DECOMPOSITION OF TRIALKYLBORANES IN PRESENCE OF POLAR COMPOUNDS
J. CHEM. SOC. JAPAN, IND. CHEM. SECT., NO. 2, 395, 1972
- 590 72 003 ARMAS B TROMBE F
CHIMIE DES HAUTES TEMPERATURES, DEPOTS CHIMIQUES, EN PHASE GAZEUSE, DE BORURES DE NIOBIUM ET DE
TANTALE
COMPT. REND., SER. C, 274, 1134, 1972
- 590 72 004 BEKTUROV AB UWIRN VA TIKHONOV VV
THERMAL STABILITY AND VOLATILITY OF UNIVALENT METAL METAPHOSPHATES
IZV. AKADE. NAUK SSSR, NEORG. MATER., 8, 297, 1972 IN RUSSIAN

- 590 72 005 BIRUNI AK PP
MECHANISM OF ZNO SINGLE CRYSTAL VAPORIZATION
THESIS. LBL-867. CALIFORNIA UNIV., BERKELEY, JUNE 1972. 21P. LAWRENCE BERKELEY LAB. NTIS
- 590 72 006 BOLDYREV VV BANSHAGI T KOROBIN OP
1. STUDY OF THERMAL DECOMPOSITION OF AMMONIUM HALOGENATES. 2. THERMAL DECOMPOSITION OF AMMONIUM
MALATES
KINET. KATAL., 13, 80, 1972 AND MAGY. KEM. FOLY., 78, 215, 1972
- 590 72 007 CARBONAR RS BLUE GO
THERMODYNAMICS OF ZRPT3
HIGH TEMP. SCI., 3, 225, 1971
- 590 72 008 CHANG SG
HIGH TEMPERATURE SPECTROSCOPY AND THERMODYNAMICS OF TITANIUM OXIDE AND VANADIUM OXIDE
THESIS. LBL-450. CALIFORNIA UNIV., BERKELEY, MARCH 1972. 143P. LAWRENCE BERKELEY LAB. NTIS
- 590 72 009 CHARLU TV KLEPPA OJ
CALORIMETRIC DETERMINATION OF THE ENTHALPY OF VAPORIZATION OF MOO3
J. CHEM. THERMODYN., 3, 697, 1971
- 590 72 010 COYLE RT
VAPORIZATION KINETICS OF MAGNESIUM NITRIDE
THESIS. LBL-136. CALIFORNIA UNIV., BERKELEY, JAN. 1972. 112P. LAWRENCE BERKELEY LAB. NTIS
- 590 72 011 CUBICCIOTTI D KENESHEA FJ
THERMODYNAMICS OF VAPORIZATION OF SODIUM SULFATE
HIGH TEMP. SCI., 4, 32, 1972
- 590 72 012 CUPAS CA
MULTIPLE THERMAL REARRANGEMENTS. 2. PYROLYSIS OF ALKENYL DIHYDROTROPONES
JACS, 93, 4623, 1971
- 590 72 013 DAVYDOV AV TRAVNIKOV SS MYASOEDOV BF
SEPARATION OF ELEMENTS BY CHLORIDE SUBLIMATION. 1. A STUDY OF THE RARE EARTH CHLORIDE SUBLIMATION
ZH. ANAL. KHIM., 26, 1936, 1971 IN RUSSIAN
- 590 72 014 DERKACH VO GORDIENKO SP FENOCHKA BV EPIK AP KOLESNIK NF
COMPOSITION OF THE GASEOUS PHASE OVER THE SYSTEM B4C-B2O3
SOV. POWDER MET. METAL CERAM. (ENGL. TRANS.), 10, NO. 4, 301, 1971. TRANSLATED FROM POROSH. MET.,
AKAD. NAUK UKR. SSR, 10, NO. 4, 58, 1971
- 590 72 015 DIAZ-GUERRA JP
VOLATILIZATION MECHANISM OF CERTAIN ELEMENTS IN A METHOD OF SEMIQUANTITATIVE SPECTROGRAPHIC ANALYSIS
JEN-229-DO/I-79. JUNTA DE ENERGIA NUCLEAR, MADRID, SPAIN, DIVISION DE QUIMICA, 1972. 18P IN SPANISH.
NTIS
- 590 72 016 DOVE JE RIDDICK J
MASS SPECTROMETRIC STUDIES OF CHEMICAL REACTIONS IN SHOCK WAVES. 2. THERMAL DECOMPOSITION OF
DIAZOMETHANE
CAN. J. CHEM., 48, 3623, 1970
- 590 72 017 FRANKLIN JE STICKNEY RE
A SIMPLIFIED EXPERIMENTAL METHOD FOR DETERMINING THE THERMOCHEMICAL PROPERTIES OF CERTAIN VOLATILE
SPECIES: APPLICATION TO REO2 AND REO3
HIGH TEMP. SCI., 3, 401, 1971. AD-733 539. MASSACHUSETTS INST. OF TECH., CAMBRIDGE, DEPT. OF
MECHANICAL ENGINEERING. 11P
- 590 72 018 FROMM E
1. P-T-C DIAGRAM OF THE NIOBIUM-OXYGEN AND TANTALUM-OXYGEN SYSTEM. 2. GAS-METAL REACTIONS OF
REFRACTORY METALS AT HIGH TEMPERATURES IN HIGH VACUUM
1. ORNL-TR-2496. TRANSLATED FOR OAK RIDGE NATIONAL LAB., TENN., FROM Z. METALLK., 57, 540-5, 1966.
14P. NTIS. 2. J. VAC. SCI. TECHNOL., 7, 5100, 1970. FROM 2ND INTERNATIONAL VACUUM METALLURGY
CONFERENCE, ANAHEIM, CALIF. CONF-700640
- 590 72 019 GALLUZZO RJ SEARCY AW
ANISOTROPIC VAPORIZATION RATES OF OPPOSITE FACES OF ZINC OXIDE SINGLE CRYSTALS: EXPERIMENTS AND
THEORY
HIGH TEMP. SCI., 3, 491, 1971
- 590 72 020 GRIGOR'EV VA
KINETICS OF HETEROGENEOUS THERMAL DECOMPOSITION OF ZIRCONIUM AND HAFNIUM BORON HYDRIDES
KINET. KATAL., 12, 1042, 1971 IN RUSSIAN
- 590 72 021 GROSSE AV
HIGH TEMPERATURE INORGANIC CHEMISTRY
NYO-4175-9. FINAL REPORT. GERMANTOWN LABS., INC., PHILADELPHIA, PA., JULY 1971. 85P. GL-1971-4. NTIS
- 590 72 022 HIND T SUGANUMA T
THERMAL DEGRADATION TESTS OF ELECTRICAL INSULATING PAPER IMMERSÉD IN OIL BY ANALYSIS OF DECOMPOSED
GASES
ELEC. ENG. JAPAN, 90, 187, 1970
- 590 72 023 JANSSON SA
THERMOCHEMISTRY OF LIQUID METAL-GAS CRUCIBLE REACTIONS IN VACUUM
J. VAC. SCI. TECHNOL., 7, 55, 1970. FROM 2ND INTERNATIONAL VACUUM METALLURGY CONFERENCE, ANAHEIM,
CALIF. CONF-700640
- 590 72 024 KOZIN LF NIGMETOVA RS DAIROVA AM
ACTIVITIES OF COMPONENTS OF TERNARY AMALGAMS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 1086, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1906, 1971.
FROM CONFERENCE ON THERMODYNAMICS OF METALLIC ALLOYS, KIEV, USSR, SEPT. 1969
- 590 72 025 KULIKOV IS
1. DISSOCIATION OF URANIUM OXIDES. 2. THERMODYNAMICS OF TITANIUM, ZIRCONIUM, AND HAFNIUM OXIDES
1. AT. ENERG. (USSR), 31, NO. 2, 93, 1971 IN RUSSIAN. 2. INORG. MATER. USSR (ENGL. TRANS.), 7, 1383,
1971. TRANSLATED FROM IZV. AKAD. NAUK SSSR, NEORG. MATER., 7, 1561, 1971
- 590 72 026 MALONEY KM GUPTA SK
SUPERHEATING IN THE ZIRCONIUM-OXYGEN COMBUSTION SYSTEM
NATURE, PHYS. SCI., 235, NO. 59, 137, 1972

- 590 72 027 MATERN G PRISEKOV YA SAPOZHNIKOV YA
INVESTIGATION OF THE VAPORIZATION OF POLYCRYSTALLINE CADMIUM
VESTN. MOSK. UNIV., SER. II. KHIM., 12, NO. 5, 557, 1971 IN RUSSIAN
- 590 72 028 MIYOSHI A HARA A KUBOTA H
GAS CHROMATOGRAPHIC STUDY OF THE BEHAVIOR OF CARBON AND OXYGEN CONTAINED IN WC + CO MIXED POWDERS
WHEN HEATED IN HYDROGEN ATMOSPHERE
FUNTAI DYOSI FUNMATSUYAKIN, 18, NO. 1, 23, 1971 IN JAPANESE
- 590 72 029 PANLENER RJ BLUMENTHAL RN
THERMODYNAMIC STUDY OF NONSTOICHIOMETRIC CERIUM DIOXIDE
COO-1441-18, MARQUETTE UNIV., MILWAUKEE, WIS., COLLEGE OF ENGINEERING, 1972, 34P. NTIS
- 590 72 030 PETZEL T GREIS O
EFFECT OF W ON THE VAPORIZATION TEMPERATURE OF EU2O3 ABOVE 1900 DEGREES C
REV. INT. HAUTES TEMP. REFRACT., 8, 269, 1971 IN GERMAN
- 590 72 031 POTTER PE
PHASE RELATIONSHIPS AND VAPORISATION BEHAVIOUR OF SOME SYSTEMS OF INTEREST IN NUCLEAR TECHNOLOGY
PP 463-74 OF PROCEEDINGS OF 1ST INTERNATIONAL CONFERENCE ON CALORIMETRY AND THERMODYNAMICS, POLISH
SCIENTIFIC PUBLISHERS, WARSAW, 1969, FROM CONFERENCE, WARSAW, AUG. 31, 1969, CONF-690834
- 590 72 032 RAFAL'KES IS TESNER PA
CARBON BLACK FORMATION IN THERMAL DECOMPOSITION OF HYDROCARBONS
SC-T-713066, TRANSLATED FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO, FROM TR. VSES. NAUCH.-ISSLED.
INST. PRIR. GAZOV, NO. 3, 3-33, 1958, 54P
- 590 72 033 ROUSE CA
PROGRESS IN HIGH TEMPERATURE PHYSICS AND CHEMISTRY, VOLUME 3
PERGAMON PRESS, INC., ELMSFORD, N.Y., 1969, 332P, 4 CHAPTERS
- 590 72 034 SCHMIDT W
NUMERICAL METHOD FOR THERMODYNAMIC PROPERTIES OF MONATOMIC IONIZED GASES
INT. J. NUMERICAL METHODS IN ENGINEERING, 4, NO. 1, 39, 1972
- 590 72 035 SCHOONMA RC LEMMERMA KJ
VAPORIZATION OF ZN3AS2
J. CHEM. ENG. DATA, 17, NO. 2, 139, 1972
- 590 72 036 SHAPATINA EA KALYUZHNYI VV CHUKHANOV ZF
RATE OF EVOLUT ION OF VOLATILE SUBSTANCES IN THE THERMAL DECOMPOSITION OF THE ORGANIC MASS OF COAL
UCL-TRANS-10647, TRANSLATED FOR UNIV. OF CALIFORNIA, LAWRENCE LIVERMORE LAB., LIVERMORE, FROM DOKL.
AKAD. NAUK SSSR, 72, NO. 5, 869-72, 1950, 7P. NTIS
- 590 72 037 SIMMONDS PG MEDLEY EE RATCLIFF MA
THERMAL DECOMPOSITION OF ALIPHATIC MONOAMINO-MONOCARBOXYLIC ACIDS
ANAL. CHEM., 44, 2060, 1972
- 590 72 038 SMITH WE HORNE OJ NAPIER B LARSON EA HARPER WL
PROPERTIES OF CARBON DERIVED FROM INDENE COMPOUNDS
Y-1790, UNION CARBIDE CORP., OAK RIDGE, TENN., Y-12 PLANT, SEPT. 1971, 134P. NTIS
- 590 72 039 TAKIMOTO HH
VACUUM THERMAL DECOMPOSITIONS OF THE NITRATE SALTS OF HYDRAZINE
AU-739 187, AERUSPACE CORP., EL SEGUNDO, CALIF., LAB. OPERATIONS, 18P
- 590 72 040 WAHL G BATZIES P
EVAPORATION OF MOLYBDENUM IN VACUUM, IN O2, AND IN H2O ATMOSPHERES
PP 119-22 OF IEEE CONFERENCE RECORD OF 1970 THERMIONIC CONVERSION SPECIALIST CONFERENCE, INST. OF
ELECTRICAL AND ELECTRONICS ENGINEERS, INC., NEW YORK, 1970, FROM CONFERENCE, MIAMI BEACH, FLA.,
OCT. 26, 1970, CONF-701039
- 590 72 041 WAILBECK PG
HIGH TEMPERATURE CHEMISTRY: FUNDAMENTALS OF EFFUSION AND THERMODYNAMICS OF MATERIALS
COO-1029-39, FINAL REPORT, JUNE 1969 - SEPT. 1971, ILLINDIS INST. OF TECH., CHICAGO, DEPT. OF
CHEMISTRY, 130P. NTIS
- 590 72 042 WOOLLEY WD
NITROGEN CONTAINING PRODUCTS FROM THE THERMAL DECOMPOSITION OF FLEXIBLE POLYURETHANE FOAMS
BRIT. POLYM. J., NO. 4, 27-43, 1972, BRIT. TECH. IND., 11, NO. 4, 54, 1972
- 590 72 043 ZAVITSANOS PD
EXPERIMENTAL STUDY OF THE SUBLIMATION OF GRAPHITE AT HIGH TEMPERATURES
SC-CR-70-6126, FINAL REPORT, GENERAL ELECTRIC CO., PHILADELPHIA, PA., RE-ENTRY AND ENVIRONMENTAL
SYSTEMS DIV., DEC. 1969; REVISED JUNE 1970, 43P. NTIS, FOR SANDIA LABS., ALBUQUERQUE, NEW MEXICO
- 592 72 001 ABDEL-MESSIH YF
INTERACTION OF CHARGED PARTICLES WITH MATTER-DE/DX MEASUREMENTS OF U(235) FISSION FRAGMENTS AS A
FUNCTION OF MASS AND ENERGY USING TIME-OF-FLIGHT TECHNIQUE
THESIS, UNIV. OF FLORIDA, GAINESVILLE, 1970, 229P, UNIV. MICROFILMS UNDER NO. 71-12.730
- 592 72 002 ALEKSANYAN AS BAGDASARYAN LS BEKKER BI VINNITSKII OM PIKHITELEV RN
TIME-OF-FLIGHT SPECTROMETER ATTACHED TO A HIGH FREQUENCY ACCELERATOR
IZV. AKAD. NAUK ARM. SSR, FIZ., 6, NO. 2, 142, 1971 IN RUSSIAN
- 592 72 003 ANDRESEN RD PAGE DE
NEW TIME-OF-FLIGHT MASS SPECTROMETER USING CHANNEL MULTIPLIERS AS ION SOURCE AND ION DETECTOR
NUCL. INSTRUM. METHOD., 20, 59C, 1970
- 592 72 004 ASTVATSATUROV RG KOLPAKOV IF SMIRNOV VA KHATCHATURYAN NN
MEASUREMENT OF THE TIME-OF-FLIGHT AND COORDINATES IN A SCINTILLATION COUNTER 130 CM LONG
INSTRUM. EXP. TECH. USSR (ENGL. TRANS.), 14, 82, 1971, TRANSLATED FROM PRIB. TEKH. EKSP., 14, NO. 1,
77, 1971
- 592 72 005 BAILEY CA KILVINGT J ROBINSON NW
MINIATURE TIME-OF-FLIGHT MASS SPECTROMETER
VACUUM, 21, NO. 10, 461, 1971
- 592 72 006 EAKKER JMB
THE TIME-FOCUSING PRINCIPLE. A DOUBLE FOCUSING DESIGN FOR TIME-OF-FLIGHT MASS SPECTROMETERS
J. MASS SPECTRY. ION PHYS., 6, 291, 1971

- 592 72 007 BALOWIN GC
TIME-OF-FLIGHT ELECTRON SPECTROMETRY
AD-732 011. RENSSELAER POLYTECHNIC INST., TROY, N.Y. 50P
- 592 72 008 BARASHKOV YA VASIL'EV YA MASLOV AN
TIME-OF-FLIGHT MEASUREMENTS OF PAIR FRAGMENTS OF CM(244) AND CF(252) SPONTANEOUS FISSION
YADERN. FIZ., 13, 1162, 1971 IN RUSSIAN
- 592 72 009 BATTY CJ KILVINGTON AI MARINOV A
VELOCITY MEASUREMENTS OF RECOIL NUCLEI FROM ALPHA-DECAY AND THE DETERMINATION OF THEIR MASS
NUCL. INSTRUM. METHODS, 99, 179, 1972
- 592 72 010 BRUPBACHER JM KERN RD
REACTION OF HYDROGEN CYANIDE AND DEUTERIUM BEHIND REFLECTED SHOCK WAVES
J. PHYS. CHEM., 76, 285, 1972
- 592 72 011 BURNETT SC FERGUSON RL PLASIL F SCHMITT HW
NEUTRON EMISSION AND FISSION ENERGETICS IN THE PROTON INDUCED FISSION OF U(233) AND U(238)
PHYS. REV., 3C, 2034, 1971
- 592 72 012 CONTINEANU M
TIME-OF-FLIGHT MASS SPECTROMETER AND ITS APPLICATIONS
STUD. CERCET. CHIM., 20, 733, 1972 IN RUMANIAN, 53 REFERENCES
- 592 72 013 DEME S KROO N SZLAVIK F ZSIGMOND G
DIRECT GEOMETRY TIME-OF-FLIGHT SPECTROMETER AT THE DUBNA PULSED REACTOR
NUCL. INSTRUM. METHODS, 97, 371, 1971
- 592 72 014 DIETZ E BASS R REITER A FRIEDLAND U HUBERT B
TIME-OF-FLIGHT SPECTROMETER FOR MASS IDENTIFICATION OF HEAVY IONS
NUCL. INSTRUM. METHODS, 97, 581, 1971
- 592 72 015 DOOLITTLE FG EARNSHAW DG
METHOD FOR CALCULATING M/E'S OF PEAKS FROM TIME-OF-FLIGHT MASS SPECTRA
APPL. SPECTROSC., 26, 403, 1972
- 592 72 016 DOSE V HETT W
COLLISIONAL QUENCHING OF METASTABLE DEUTERIUM
J. PHYS. B, 4, NO. 10, L83, 1971
- 592 72 017 FURRER A
EXPERIMENTAL STUDY OF LEAD LATTICE DYNAMICS. (TIME-OF-FLIGHT SPECTROMETERS)
N71-33293, EIDGENOSSISCHE TECHNISCHE HOCHSCHULE, ZURICH, SWITZERLAND, 85P IN GERMAN
- 592 72 018 GELBKE CK HILDENBRAND KD BOCK R
TIME-OF-FLIGHT SPECTROMETER FOR HEAVY IONS
NUCL. INSTRUM. METHODS, 95, 397, 1971
- 592 72 019 HINDERLITER HF
THE C(13)(HE(3),N(15)) REACTION AT 6.0 MEV BOMBARDING ENERGY BY NEUTRON TIME-OF-FLIGHT
THESIS, PENNSYLVANIA STATE UNIV., UNIVERSITY PARK, UNIV. MICROFILMS ORDER NO. 72-9476, DISS. ABS.,
32B, 9, 5401, 1972
- 592 72 020 HOWARTH SB LIPPIATT JH PRICE O WARD GB MYERS P
DEVELOPMENT OF A TIME-OF-FLIGHT MASS SPECTROMETER TO MONITOR FAST GAS REACTIONS
J. MASS SPECTRY. ION PHYS., 9, 95, 1972
- 592 72 021 HUGHES GN
NEUTRAL TIME-OF-FLIGHT MASS SPECTROSCOPY: A TECHNIQUE FOR ANALYSIS OF AEROSOLS
PRESENTED AT 65TH ANNUAL MEETING OF AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, NEW YORK, N.Y., NOV.
26, 1972
- 592 72 022 JOY WK PRITCHARD E
INSTALLATION OF TIME-OF-FLIGHT MASS SPECTROMETER AND PRELIMINARY EXAMINATION OF VOLATILES FROM
FLASH-HEATED COAL
B.C.U.R.A. INFORMATION CIRCULAR BCUR-IC-334, 23P, 1968
- 592 72 023 KALEBIN SM
TIME-OF-FLIGHT SPECTRUM MEASUREMENTS OF NEUTRONS EMERGING FROM HORIZONTAL CHANNELS OF A HEAVY-WATER
AND AN CM-2 REACTOR
AT. ENERG. (USSR), 32, 485, 1972 IN RUSSIAN
- 592 72 024 KANEMATSU F MIWA H
TRANSIT TIME MASS SPECTROMETER
MASS SPECTRY. JAPAN, 19, 254, 1971 IN JAPANESE
- 592 72 025 KARATAEV VI MAMYRIN BA SHMIK DV
NEW METHOD FOR FOCUSING ION BUNCHES IN TIME-OF-FLIGHT MASS SPECTROMETERS
SOV. PHYS. TECH. PHYS. (ENGL. TRANS.), 16, 1177, 1972, TRANSLATED FROM ZH. TEKH. FIZ., 41, 1498,
1971
- 592 72 026 KERN RD NIKI GG
DYNAMIC SAMPLING OF THE DEUTERIUM HYDRIDE SELF-EXCHANGE BEHIND REFLECTED SHOCK WAVES
J. PHYS. CHEM., 75, 2541, 1971
- 592 72 027 KLEINBERG GA GEIGER DL
TANDEM THERMOGRAVIMETRIC ANALYSER - TIME-OF-FLIGHT MASS SPECTROMETER SYSTEM DESIGNED FOR
TOXICOLOGICAL EVALUATION OF NONMETALLIC MATERIALS
AD-733 709, AEROSPACE MEDICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OHIO, 1971, 16P
- 592 72 028 KOBAYASHI N
CONCENTRATION EFFECT OF THE REACTANT GAS IN THE INJECTIVE-ION DRIFT TUBE MASS SPECTROMETER
MASS SPECTRY. JAPAN, 20, 123, 1972 IN ENGLISH
- 592 72 029 LEARY HJ
INFRARED STUDY OF GASEOUS UO AND UO2 TRAPPED IN ARGON AND KRYPTON MATRICES AT LIQUID HELIUM
TEMPERATURES
THESIS, UNIV. OF IOWA, IOWA CITY, 1971, 135P, UNIV. MICROFILMS ORDER NO. 71-22,113

- 592 72 030 MACFADDEN KO
FAST TIME-RESOLUTION OF PHOTOCHEMICAL STUDIES IN A TIME-OF-FLIGHT MASS SPECTROMETER
THESIS. GEORGETOWN UNIV., WASHINGTON, D.C. UNIV. MICROFILMS ORDER NO. 72-18,304. DISS. ABS., 328.
12, 6954, 1972
- 592 72 031 MARSHALL T
1. EXPERIMENTAL STUDY OF TIME-OF-FLIGHT MASS SPECTROMETRY OF ATOMS, MOLECULES, AND IONS. 2.
EXPERIMENTAL STUDY OF TIME-OF-FLIGHT MASS SPECTROMETRY OF ATOMS
AD-737 803 AND AD-737 893. SUFFOLK UNIV., BOSTON, MASS., DEPT. OF PHYSICS. NATIONAL TECHNICAL
INFORMATION SERVICE (NTIS). U.S. DEPT. OF COMMERCE. SPRINGFIELD, VA. 22151
- 592 72 032 MILNE TA GREENE FT BEACHEY JE
DETECTION OF ARGON CLUSTER FRAGMENTATION IN TIME-OF-FLIGHT MASS SPECTROMETER
J. CHEM. PHYS., 56, 5340, 1972
- 592 72 033 MUINOV TM
TIME-OF-FLIGHT MASS SPECTROMETRIC STUDY OF THERMAL AND MECHANICAL DEGRADATION OF POLY(VINYL ALCOHOL)
AND POLY(VINYL CHLORIDE)
DOKL. AKADE. NAUK TADZH. SSR, 15, NO. 7, 25, 1972 IN RUSSIAN
- 592 72 034 PLEYER H KOHLMAYER B SCHNEIDER WFW BUCK R
IDENTIFICATION OF HEAVY IONS USING A TIME-OF-FLIGHT TECHNIQUE WITH VERY THIN SURFACE BARRIER
DETECTORS
NUCL. INSTRUM. METHODS, 96, 263, 1971
- 592 72 035 POSCHENRIEDER WP UETJEN GH (3)
MULTIPLE-FOCUSING TIME-OF-FLIGHT MASS SPECTROMETERS. 1. IONS WITH EQUAL MOMENTUM ACCELERATION. 2.
IONS WITH EQUAL ENERGY ACCELERATION. 3. NEW DIRECTIONAL AND ENERGY FOCUSING TIME-OF-FLIGHT MASS
SPECTROMETERS FOR SPECIAL TASKS IN VACUUM AND SURFACE PHYSICS
1. J. MASS SPECTRY. ION PHYS., 6, 413, 1971. 2. J. MASS SPECTRY. ION PHYS., 9, 357, 1972. 3. J. VAC.
SCI. TECHNOL., 9, 212, 1972. FROM 5TH INTERNATIONAL VACUUM CONGRESS, BOSTON, MASS., OCT. 11, 1971
- 592 72 036 PRICE D
APPLICATION OF TIME-RESOLVED MASS SPECTROMETRY TO GAS PHASE FLASH PHOTOLYSIS
NATURE, 230, 68, 1971
- 592 72 037 PURSER KH
EXPERIMENTS IN NUCLEAR PHYSICS USING BEAM PULSING AND TIME-OF-FLIGHT SYSTEMS
AD-731 120. FINAL TECHNICAL REPORT. ROCHESTER UNIV., N.Y., DEPT. OF PHYSICS AND ASTRONOMY, 1971.
49P. AFOSR-TR-71-2652. NTIS
- 592 72 038 RUDY CR
HEAVY ION EMISSION FROM LIGHT NUCLEI
THESIS. UNIV. OF WASHINGTON, SEATTLE, 1970. 104P. UNIV. MICROFILMS ORDER NO. 71-16,994
- 592 72 039 STOCKMEYER R
TIME-OF-FLIGHT SPECTROMETER FOR SLOW NEUTRONS
KERNTECHNIK, 14, NO. 1, 13, 1972 IN GERMAN AND ENGLISH
- 592 72 040 SU CS
TIME-OF-FLIGHT MASS SPECTROMETER WITH A 90 DEGREE ELECTROSTATIC ENERGY ANALYZER
PP 245-8 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY. OGATA, K. (ED.). UNIVERSITY PARK PRESS,
BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969
- 592 72 041 VAN BRUNT RJ LIGHTNER GS WHITEHEAD WD
MASS AND CHARGE DEPENDENT ION DISCRIMINATION IN A LINEAR PULSED TIME-OF-FLIGHT MASS SPECTROMETER
REV. SCI. INSTRUM., 42, 1052, 1971
- 592 72 042 VESTAL ML
AXIAL BEAM TIME-OF-FLIGHT MASS SPECTROMETER
UNITED STATES PATENT 3,586,853. JUNE 22, 1971. TO SCIENTIFIC RESEARCH INSTRUMENTS CORP. FILED
NOVEMBER 14, 1968
- 592 72 043 WATSON BA CHANG CC TABOR SL
REACTIONS INDUCED BY THE BOMBARDMENT OF CA(40) WITH 70 MEV O(16) IONS
PARTICLES NUCL., 2, NO. 6, 376, 1971
- 592 72 044 WEISE K
OPTIMIZATION PROBLEM IN TIME-OF-FLIGHT SPECTROSCOPY
NUCL. INSTRUM. METHODS, 96, 119, 1972
- 592 72 045 WIDDER F
NEW METHOD FOR DETERMINATION OF DEAD-TIME CORRECTIONS OF TIME-OF-FLIGHT SPECTROMETERS
EIR-216. Eidgenössisches Institut fuer Reaktorforschung, Wuerenlingen, Switzerland, JUNE 1972. 24P
IN GERMAN. NTIS
- 595 72 001 ACKERMANN RJ RAUH EG
VAPOR PRESSURE OF LIQUID URANIUM: EFFECTS OF DISSOLVED TANTALUM, PHOSPHORUS, SULFUR, CARBON, AND
OXYGEN
J. PHYS. CHEM., 73, 769, 1969
- 595 72 002 AKHUNDOV TS ABDULLAE FG
EXPERIMENTAL STUDY OF PRESSURE DEPENDENCE OF SATURATED BENZENE VAPOR ON TEMPERATURE
Zh. Fiz. Khim., 45, 1862, 1971
- 595 72 003 AMBROSE D SPRAKE CH TOWNSEND R (1)
1. THERMODYNAMIC PROPERTIES OF ORGANIC OXYGEN COMPOUNDS. XXIX. VAPOUR PRESSURE OF DIETHYL ETHER. 2.
VAPOUR PRESSURE OF MERCURY
J. CHEM. THERMODYN., 4, 247 AND 603, 1972
- 595 72 004 AMITIN AV VAKUROVA EA KATUNIN VK
VAPOR PRESSURES OF SOLID PHTHALIC ANHYDRIDE
Zh. Fiz. Khim., 46, 1054, 1972
- 595 72 005 ANDREEVA IN LATYSHEV VA
VAPOR PRESSURE CHANGE DURING FORMATION OF CHLORIDE COMPLEXES OF ZINC AND CADMIUM IN AQUEOUS
SOLUTIONS
Zh. Fiz. Khim., 45, 1294, 1971

- 595 72 006 ARBUZOVA LA
MEASURING WATER VAPOR PRESSURE DURING GRADUATION OF THE MI-1305 MASS SPECTROMETER
ZAVOD. LAB., 38, 720, 1972 IN RUSSIAN
- 595 72 007 ASIJA PK
ESTIMATION OF SATURATED VAPOUR PRESSURE AND SOME OTHER PROPERTIES OF ORGANIC AND INORGANIC
SUBSTANCES
INDIAN J. TECHNOL., 9, NO. 2, 39, 1971
- 595 72 008 BEHRENS RG ROSENBLA GM
VAPOUR PRESSURE AND THERMODYNAMICS OF OCTAHEDRAL ARSENIC TRIOXIDE (ARSENOLITE)
J. CHEM. THERMODYN., 4, 175, 1972. AD-745 676, 1971
- 595 72 009 BEHRNDT KH
ENHANCED VAPOR PRESSURE OF SMALL CLUSTERS
THIN SOLID FILMS, 7, 415, 1971
- 595 72 010 BESSARAB NA CHERNOGL FS MARTYNOV YM
VAPOR PRESSURE OF NORMAL MONOCHLOROPARAFFIN SERIES IN TEMPERATURE RANGE OF 49.6 TO 269 DEGREES C
ZH. FIZ. KHIM., 45, 1573, 1971
- 595 72 011 BISWAS SR MUKERJI J
VAPOR PRESSURE OF CESIUM METABORATE
J. CHEM. ENG. DATA, 16, 336, 1971
- 595 72 012 BLEYERVE RH FIEGGEN W GERDING M
STRUCTURE AND PHYSICAL PROPERTIES OF ALUMINIUM ALKOXIDES. 4. VAPOR PRESSURES OF ALUMINIUM
ISOPROPOXIDE
REC. TRAV. CHIM., 91, 477, 1972
- 595 72 013 BOROWITZ JL KLEIN FS
VAPOR PRESSURE ISOTOPE EFFECTS IN METHANOL
J. PHYS. CHEM., 75, 1815, 1971
- 595 72 014 BUBACK M FRANCK EU
MEASUREMENTS OF VAPOUR PRESSURES AND CRITICAL DATA OF AMMONIUM HALIDES
BER. BUNSENES. PHYS. CHEM., 76, 350, 1972
- 595 72 015 CHEN H GILLES PW
HIGH MOLECULAR WEIGHT BORON SULFIDES. 13. VAPOR PRESSURES OF B₂S₃(G) AND B₄S₆(G) OVER STOICHIOMETRIC
B₂S₃
J. PHYS. CHEM., 76, 2035, 1972
- 595 72 016 CHEN HH AZIZ RA LIM CC
ON VAPOR PRESSURE OF SOLID ARGON
CAN. J. PHYS., 49, 1569, 1971
- 595 72 017 CHERNOZU YS RUZNETSO BP KLIMENKO AA
PRESSURE OF SATURATED CHALCOGENIC VAPOR
ZH. FIZ. KHIM., 46, 275, 1972
- 595 72 018 DEVIATYK GG BORISOV GK KRASNOVA SG
PRESSURE OF SATURATED VAPOUR AND TEMPERATURE OF TRIPLE POINT OF TRICYCLOPENTADIENYLS OF RARE EARTH
ELEMENTS OF CERIUM SUBGROUP
DOKL. AKAD. NAUK SSSR, 203, 110, 1972 IN RUSSIAN
- 595 72 019 DICKSON JL
VAPOR PRESSURE OF LEAD AND ACTIVITY MEASUREMENTS OF LEAD-PLATINUM ALLOYS BY THE TORSION EFFUSION
METHOD
LBL-116, THESIS, CALIFORNIA UNIV., LIVERMORE, JULY 1971, 23P. LAWRENCE LIVERMORE LAB.
- 595 72 020 DITSENT VE SKOROKHO II TERENCEV NA
SATURATION VAPOR PRESSURE OF ORGANOPOLYDISILOXANES. (1) II. POLYDIMETHYLCYCLOSILOXANES. (2) III.
ALPHA, OMEGA-HEXAMETHYLPOLYMERHYLPHENYLSILOXANES. (3) V. CIS-ISOMERS AND TRANS-ISOMERS OF
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ZH. FIZ. KHIM., 45, 1587 AND 1600, 1971, AND 46, 544, 1987, AND 1988, 1972
- 595 72 021 EMONS HH THEISEN L
VAPOUR EQUILIBRIUM PRESSURES OF SILICON MONOCHALCOGENIDES
MONATSH. CHEM., 103, 62, 1972
- 595 72 022 EON C POMMIER C GUIDICHON G
VAPOR PRESSURES AND SECOND VIRIAL COEFFICIENTS OF SOME FIVE-MEMBERED HETEROCYCLIC DERIVATIVES
J. CHEM. ENG. DATA, 16, 408, 1971
- 595 72 023 ERMOLAEV MI BATISHCH VV GORYACHE KV
PRESSURE OF SATURATED VAPORS OF LUBRICATING OILS
KHIM. TEKHNOL. TOPLIV NASEL, NO. 5, 57, 1972
- 595 72 024 FAURE FM MITCHELL MJ BARTLETT RW
VAPOR PRESSURE STUDY OF STIBNITE (SB₂S₃)
HIGH TEMP. SCI., 4, 181, 1972
- 595 72 025 FEDOROV GB KALININ PI SMIRNOV EA IVANOV KV
EFFECT OF DEGREE OF EXHAUSTION AND COMPOSITION OF RESIDUAL GASES IN WORKING CHAMBER ON VAPOUR
PRESSURE OF METALS AND ALLOYS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 683, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 1218, 1971
- 595 72 026 FELDSTE LS KUZMINSK AS
USE OF GAS SATURATION METHOD TO DETERMINE VAPOUR PRESSURE AND SOLUBILITY OF ANTIOXIDANTS IN POLYMERS
POLYMER SCI. USSR (ENGL. TRANS.), 13, 739, 1971. TRANSLATED FROM VYSOKOMOL. SOEDIN., SER. A, 13A,
2618, 1971
- 595 72 027 FREYLAND WF HENSEL F
VAPOUR PRESSURE CURVE OF LIQUID POTASSIUM UP TO CRITICAL POINT
BER. BUNSENES. PHYS. CHEM., 76, 16, 1972
- 595 72 028 FURUKAWA G
VAPOR PRESSURES OF NATURAL NEON AND OF THE ISOTOPES NE(20) AND NE(22) FROM THE TRIPLE POINT TO THE
NORMAL BOILING POINT
COM-72-5040. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA,
22151, 1972

- 595 72 029 GLAZOV VM KORENCHU NM
VAPOR PRESSURE AND THERMODYNAMICS OF COPPER AND SILVER CHALCOGENIDES
ZH. FIZ. KHIM., 45, 2678, 1971
- 595 72 030 GUICHELA PJ TROJAN PK MCCLuhan T
A NEW TECHNIQUE FOR VAPOR PRESSURE MEASUREMENT APPLIED TO FE-SI-MG SYSTEM
MET. TRANS., 2, 3305, 1971
- 595 72 031 MOENIG CL
PHASE EQUILIBRIA, VAPOR PRESSURE, AND KINETIC STUDIES IN URANIUM-NITROGEN SYSTEM
J. AMER. CERAM. SOC., 54, 391, 1971
- 595 72 032 JEEVANANDAM M
VAPOR PRESSURE ISOTOPE EFFECT NEAR THE TRIPLE POINT
J. CHEM. PHYS., 55, 5735, 1971
- 595 72 033 KALAFATI DO PIIR AE
BINARY VAPOR PRESSURE OF MUTUALLY INSOLUBLE LIQUIDS
ZH. FIZ. KHIM., 46, 325, 1972 IN RUSSIAN
- 595 72 034 KAZHLAEV RI SHAKHTAK MG
SATURATION VAPOR PRESSURE OF ANTIMONY
IZV. AKAD. NAUK AZERB. SSR, SER. FIZ.-TEKH. MAT. NAUK, P79, 1972 IN RUSSIAN
- 595 72 035 KISS I JAKLI G ILLY H JANCSE G
ISOTOPE EFFECT ON VAPOUR PRESSURE. 5. EFFECT OF DEUTERIUM SUBSTITUTION ON THE VAPOUR PRESSURE OF METHYLAMINE, ETHYLAMINE, AND PROPYLAMINE
KFKI-71-68, MAGYAR TUDDMANYOS AKADEMIA KOZPONTI FIZIKAI KUTATC INTEZETE, BUDAPEST, DEC. 1971, 8P
- 595 72 036 KOGAN EA STROK MV YARYM AG
PRESSURE AND COMPOSITION OF SATURATED VAPOR OF BINARY SYSTEMS WITH CHEMICAL INTERACTION OF COMPONENTS IN VAPOR. 10. DETERMINING COMPOSITION OF SATURATED VAPOR IN SYSTEMS WITH CHEMICALLY INTERACTING (IN VAPOR)
ZH. FIZ. KHIM., 45, 1083, 1971
- 595 72 037 KOMLEV GA OLSHEVSK MV
VAPOR PRESSURE OVER LIQUID BISMUTH
ZH. FIZ. KHIM., 45, 1302, 1971
- 595 72 038 KOPP JW SMITH DR ASHWORTH T
VAPOUR PRESSURE OF SOLID NITROGEN
AD-727 186, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA. 22151, 1971
- 595 72 039 KORENEN VM SOROKIN ID CHIRINA NA
VAPOR PRESSURE OF HAFNIUM TETRAFLUORIDE
ZH. NEORG. KHIM., 17, 1195, 1972
- 595 72 040 KUBRAK YP YARYM AG
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ZH. FIZ. KHIM., 46, 806, 1972
- 595 72 041 LEE MW ESHELMAN DM BIGELEISEN J
VAPOR PRESSURES OF ISOTOPIC KRYPTON MIXTURES. INTERMOLECULAR FORCES IN SOLID AND LIQUID KRYPTON
UR-3999-13, ROCHESTER UNIV., N.Y., DEPT. OF CHEMISTRY, 40P, NTIS
- 595 72 042 LESTEVA TM KHRAPKOV EI
CALCULATION OF VAPOR PRESSURE OVER SOLUTIONS ACCORDING TO COMPOSITION OF EQUILIBRIUM LIQUID AND VAPOR PHASES
ZH. FIZ. KHIM., 45, 3113, 1971
- 595 72 043 LEWIS B
ENHANCED VAPOUR PRESSURE OF SMALL CLUSTERS
THIN SOLID FILMS, 9, 305, 1972
- 595 72 044 LISGARTE ND SAMBLES JR SKINNER LM
VAPOUR PRESSURE OVER CURVED SURFACES: KELVIN EQUATION
CONTEMP. PHYS., 12, NO. 6, XXX, 1971
- 595 72 045 MIELCARS M
VAPOUR PRESSURE AND DERIVED INFORMATIONS OF CUCL-KCL SYSTEM
Z. ANORG. ALLGEM. CHEM., 386, 345, 1971
- 595 72 046 MORAWETZ E
TRIPLET CALORIMETER FOR MEASUREMENT OF VAPORIZATION ENTHALPIES IN PRESSURE RANGE 10(TO+2) TO 10(TO-6) MM HG AT 25 DEGREES C. VAPORIZATION CALORIMETER
ARK. KEM., 1, NO. 3, 103, 1971
- 595 72 047 MORI Y UCHIDA M HARA T
VAPOR PRESSURE OF BINARY LIQUID METALS (MERCURY-BISMUTH SYSTEM)
BULL. JSME (JAP. SOC. MECH. ENG.), 15, 603, 1972
- 595 72 048 MORIE GP POWERS TA GLOVER CA
EVALUATION OF THERMAL ANALYSIS EQUIPMENT FOR DETERMINATION OF VAPOR PRESSURE AND HEAT OF VAPORIZATION
THERMOCHIM. ACTA, 3, NO. 4, XXX, 1972
- 595 72 049 MURADOVA DN MURADOV VG
1. ATOMIC ADSORPTION METHOD FOR MEASURING VAPOR PRESSURE OVER SODIUM AND CADMIUM ALLOYS. 2. SATURATED VAPOR PRESSURE OVER SOLID CADMIUM
ZH. FIZ. KHIM., 45, 1544, 1971 AND 46, 492, 1972
- 595 72 050 NAGATA I OHTA T
COMPUTATION OF BINARY VAPOR-LIQUID EQUILIBRIUM DATA FROM TOTAL PRESSURE DATA
J. CHEM. ENG. JAPAN, 5, 232, 1972
- 595 72 051 NATER KA
VAPOR PRESSURE OF URANIUM(IV) SULPHIDE IN THE TEMPERATURE INTERVAL 2100 TO 2500 DEGREES K
PP 1136-43 OF RECENT DEVELOPMENTS IN MASS SPECTROSCOPY, OGATA, K. (ED.), UNIVERSITY PARK PRESS, BALTIMORE, MD., 1970. FROM CONFERENCE, KYOTO, JAPAN, SEPT. 8, 1969

- 595 72 052 NISHIMUR M NAKAYAMA M YANO T
VAPOR PRESSURE OF PURE DMSO AND VAPOR-LIQUID EQUILIBRIA IN DMSO-H₂O SYSTEM UNDER ISOBARIC CONDITIONS
J. CHEM. ENG. JAPAN, 5, 223, 1972
- 595 72 053 OZHEGOV PI MERZLYAK AV KUNIN LL
EFFECT OF GEOMETRICAL PARAMETERS OF A KNUDSEN CAMERA AND VAPORIZATION COEFFICIENT ON MEASURED VAPOR PRESSURE
ZAVOD. LAB., 38, 699, 1972 IN RUSSIAN
- 595 72 054 PAHLMAN JE
THERMODYNAMICS OF FORMATION OF COMPOUNDS IN THE CE-MG, ND-MG, GD-MG, DY-MG, ER-MG, AND LU-MG SYSTEMS FROM VAPOR PRESSURE MEASUREMENTS
IS-T-462, THESIS, IOWA STATE UNIV., AMES, SEPT. 1971, 130P, AMES LAB. USAEC. NTIS
- 595 72 055 PEPELA CN DUNLOP PJ
REEXAMINATION OF VAPOR PRESSURES OF AQUEOUS SODIUM CHLORIDE SOLUTIONS AT 25 DEGREES C
J. CHEM. THERMODYN., 4, 255, 1972
- 595 72 056 POLAVARA RJ
DIRECT MEASUREMENT OF VAPOR PRESSURE AND ITS FLUCTUATIONS USING FINE THERMOCOUPLES
QUART. J. ROY. METEOROL. SOC., 98, 198, 1972
- 595 72 057 POWELL DG WYATT PA
VAPOR PRESSURES OF ANHYDROUS SULPHATES. 1. KNUDSEN EFFUSION RESULTS BETWEEN 560 AND 1000 DEGREES C FOR ALKALI-METAL SULPHATES
J. CHEM. SOC. A, NO. 22, XXX, 1971
- 595 72 058 PRYDZ R GOODWIN RD
EXPERIMENTAL MELTING AND VAPOR PRESSURES OF METHANE
J. CHEM. THERMODYN., 4, 127, 1972
- 595 72 059 PUPEZIN J JAKLI G JANCZO G VAN HOOK A
VAPOR PRESSURE ISOTOPE EFFECT IN AQUEOUS SYSTEMS. 1. H₂O-D₂O (-64 TO 100 DEGREES) AND H₂O(16)-H₂O(18) (-17 TO 16 DEGREES): ICE AND LIQUID. 2. ALKALI METAL CHLORIDE SOLUTION IN H₂O AND D₂O, (-5 TO 100 DEGREES)
J. PHYS. CHEM., 76, 743-62, 1972
- 595 72 060 RABINOVICH IB KARYAKIN NV OVCHINNIKOV YV
VAPOR PRESSURE OF PHTHALIC ACID ESTERS OVER PLASTICIZED POLYVINYL CHLORIDE
POLYMER SCI. USSR (ENGL. TRANS.), 13, 2343, 1972
- 595 72 061 RAU H
APPARATUS FOR MEASUREMENT OF HIGH VAPOR PRESSURES AND DENSITIES AT HIGH TEMPERATURES UNDER ISOTHERMAL CONDITIONS
REV. SCI. INSTRUM., 43, 831, 1972
- 595 72 062 RETINGHAUS G HUBER WK
MEASUREMENT OF VAPOR PRESSURES AND BACKSTREAMING WITH A MASS SPECTROMETER CALIBRATED AGAINST A QUARTZ CRYSTAL THICKNESS MONITOR
J. VAC. SCI. TECHNOL., 9, 416, 1972
- 595 72 063 SALOTTI CA
MONATOMIC METAL VAPOR PRESSURES FROM MINERALS
AMER. MINERAL., 57, 130, 1972
- 595 72 064 SANDHU JS REUTER JL
- ARSENIC SOURCE VAPOR PRESSURE KINETICS AND CAPSULE DIFFUSION
IBM J. RES. DEVELOP., 15, NO. 6, XXX, 1971
- 595 72 065 SEDLETSK IS KOGAN VB
CALCULATION OF VAPOR COMPOSITION IN TERNARY AND MULTI-COMPONENT SYSTEMS OF A LIQUID-VAPOR TYPE ACCORDING TO DATA FOR BINARY SYSTEMS AND VAPOR PRESSURE IN MULTI-COMPONENT SYSTEM
ZH. FIZ. KHIM., 45, 1858, 1971
- 595 72 066 SENGERS JM CHEN WT
VAPOR PRESSURE, CRITICAL ISOCHORE, AND SOME METASTABLE STATES OF CO₂
J. CHEM. PHYS., 56, 595, 1972
- 595 72 067 SHAULOV YK PRISELKO YA LOPTAKIN IL
SATURATED VAPOR PRESSURE OF SILICON AND GERMANIUM PHTHALOCYANINES
ZH. FIZ. KHIM., 46, 857, 1972
- 595 72 068 SHIU DH MUNIR ZA
HEAT OF VAPORIZATION AND VAPOR PRESSURE OF LIQUID LEAD
MET. TRANS., 2, 2953, 1971
- 595 72 069 SHNYP VA NOVKKOV GI
VAPOR COMPOSITION AND PRESSURE IN LUCL₃-LiCl, LUCL₃-CsCl SYSTEMS
ZH. FIZ. KHIM., 46, 540, 1972
- 595 72 070 SHOLITS VB SIDOROV LN
THERMODYNAMICS OF TWO-COMPONENT SYSTEMS WITH COMPLEX VAPOR COMPOSITION. 4. NONVARIANT EQUILIBRIA
ZH. FIZ. KHIM., 45, 3019, 1971
- 595 72 071 SHPILRAI E NIKANORO EV
1. EXPERIMENTAL STUDY OF SATURATED VAPOR PRESSURE OF RUBIDIUM IN TEMPERATURE RANGE 707 TO 1541 DEGREES K. 2. MEASUREMENT OF VAPOR PRESSURE OF MERCURY BY BOILING-POINT METHOD
HIGH TEMP. USSR (ENGL. TRANS.), 9, NO. 2, XXX, 1971 AND 9, NO. 3, 585, 1971
- 595 72 072 SIDBOTT EW LITVAN GG
PHASE TRANSITIONS OF ADSORBATES. 2. VAPOR PRESSURE AND EXTENSION ISOTHERMS OF THE POROUS-GLASS PLUS WATER SYSTEM BELOW 0 DEGREES C
AD-735 539, NATIONAL TECHNICAL INFORMATION SERVICE (NTIS), U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA, 22151, 1970
- 595 72 073 SKROKHODOV II DITSENT VE TERENCEV NA
SATURATION VAPOR PRESSURE OF ORGANOPOLYDISILOXANES. 1. POLYDIMETHYLSILOXANES. 4. ALPHA,CMEGA HEXAMETHYLPOLYDIMETHYL-PHENYLSILOXANES
ZH. FIZ. KHIM., 45, 1588, 1971 AND 46, 533, 1972

- 595 72 074 STEINMEYER RH KERSHNER CJ
VAPOR PRESSURE OF POLONIUM DIOXIDE
J. INORG. NUCL. CHEM., 33, 2847, 1971
- 595 72 075 TOPOR L WYPARTOW J
VAPOR PRESSURES OF MOLTEN CADMIUM BROMIDE AND CADMIUM IODIDE
REV. ROUM. CHIM., 17, 831, 1972
- 595 72 076 VATOLIN NA TIMOFEEV AI DUBININ EL
VAPOUR PRESSURE OF LIQUID PALLADIUM ALLOYS
RUSS. J. PHYS. CHEM. (ENGL. TRANS.), 45, 1149, 1971. TRANSLATED FROM ZH. FIZ. KHIM., 45, 2027, 1971.
FROM CONFERENCE ON THERMODYNAMICS OF METALLIC ALLOYS, KIEV, USSR, SEPT. 22, 1969
- 595 72 077 VERA JH PRAUSNIT JM
SEMI-THEORETICAL VAN DER WAALS EQUATION FOR CALCULATION OF VAPOR-LIQUID EQUILIBRIA AT HIGH PRESSURES
CAN. J. CHEM., 49, 2037, 1971
- 595 72 078 VIGOROV VN VAKHOBOV AV PLOTNIKO YV
VAPOR PRESSURES OVER ALLOYS OF ALUMINUM-BARIUM SYSTEM
ZH. FIZ. KHIM., 46, 1426, 1972
- 595 72 079 VRESTAL J KUCERA J
VAPOR PRESSURE AND THERMODYNAMIC STUDY OF CO-NI SYSTEM
MET. TRANS., 2, 3367, 1971
- 595 72 080 WACHI FM GILMARTI DE
VAPOR PRESSURE AND HEAT OF VAPORIZATION OF COBALT
AD-735 663. NATIONAL TECHNICAL INFORMATION SERVICE (NTIS); U.S. DEPT. OF COMMERCE, SPRINGFIELD, VA.
2215, 1971
- 595 72 081 WALTER KL STEVENSON FD (2)
1. LANGMUIR VAPORIZATION TECHNIQUE FOR LIQUID PHASE VAPOR PRESSURE AND PARTIAL PRESSURE
MEASUREMENTS. LEAD AND INDIUM-LEAD SYSTEMS. 2. THERMODYNAMIC PROPERTIES OF LIQUID METALS BY
LANGMUIR VAPORIZATION TECHNIQUES
1. IS-T-506. THESIS. IOWA STATE UNIV., AMES, MAY 1972. 179P. AMES LAB. USAEC. NTIS. 2. IS-2871. AMES
LAB. USAEC. IOWA STATE UNIV., AMES, 1972. 19P. CONF-721106-3. NTIS. FROM 65TH ANNUAL MEETING OF
AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, NEW YORK, N.Y., NOV. 26, 1972
- 595 72 082 WEXLER A GREENSPA L
VAPOR PRESSURE EQUATION FOR WATER IN RANGE 0 TO 100 DEGREES C
J. RES. NAT. BUR. STAND., 75A, 213, 1971
- 595 72 083 WIEDEMAN HG
APPLICATIONS OF THERMOGRAVIMETRY FOR VAPOR PRESSURE DETERMINATION
THERMOCHIM. ACTA, 3, 355, 1972
- 595 72 084 WOLFF H ROLLAR HG WOLFF E
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DERIVATIVES
J. CHEM. PHYS., 55, 1373, 1971
- 595 72 085 WU HY WAHLBECK PG
VAPOR PRESSURES AND STANDARD ENTHALPY CHANGE FOR SUBLIMATION OF TI(S, BETA)
HIGH TEMP. SCI., 3, 469, 1971
- 595 72 086 YAVOYSKI VI SVYAZHIN AG VISHKARE AF

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RUSS. METALLUR. METALLY (ENGL. TRANS.), NO. 3, 24, 1971
- 595 72 087 ZHEGULSK NA SHOLITS VB SIDOROV LN
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ZH. FIZ. KHIM., 46, 1889, 1972
- 595 72 088 ZHELEZNY BV
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	570 72 035	BEHRENS RG	595 72 008	BERESTOV AT	410 72 018
	585 72 070	BEHRISCH R	335 72 007	BEREZNETSKAYA NK	626 72 002
	587 72 017	BEHRNDT KH	595 72 009	BERG GG	188 72 008
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BAYLOUNY RA	490 72 012	BEISLER JA	585 72 305		260 72 045
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BAZIN J	115 72 003	BEKKER BI	592 72 002	BERG SS	585 72 084
GAZINET ML	480 72 010	BEKTUROV AB	590 72 004	BERGE L	365 72 001
	550 72 028	BELANGER VJ	110 72 004	BERGER GW	305 72 092
BEACHEY JE	475 72 040		260 72 037	BERGER JJ	260 72 189
	490 72 147	BELASHCHENKO DK	410 72 016	BERGERHOFF G	585 72 085
	592 72 032	BELCHER R	187 72 013	BERGERON G	202 72 015
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	518 72 002	BOEKELHE V	518 72 005	BORENI RJ	115 72 045
	525 72 009	BOELRIJK NAIM	305 72 066	BORESKOV EG	100 72 015
BLAKE JG	518 72 033		385 72 002	BORESKOV GK	100 72 016
BLAKELY RF	480 72 170	BOER FP	570 72 058		225 72 111
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BLANC C (1)	410 72 036		235 72 006		395 72 007
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BLANC P	300 72 233		360 72 017		580 72 024
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BLANCHARD C	480 72 038	BOESE R	180 72 177	BORGA O	290 72 021
BLANCHARD M	395 72 007	BOETTGER HG	480 72 023		290 72 037
BLANKENSTEIN E	416 72 077		480 72 204	BORGNINO J	255 72 011
BLANN M	335 72 010		570 72 034	BORING JW	185 72 046
BLASIUS E	115 72 006	BOETTIGER J	335 72 011		335 72 012
BLASSE G	140 72 002	BOGAARDT M	410 72 027		580 72 050
BLATCHLE FR	290 72 028	BOGARD OD	200 72 023	BORISOV AE	187 72 137
BLAUTH EW	460 72 012		200 72 024	BORISOV GK	595 72 018
	535 72 017	BOGDANOV SD	400 72 050	BORKENT JH	185 72 003
BLECHA DL	115 72 086	BOGDANDV YV	305 72 011	BORKOV FP	300 72 035
BLINKINSOP J	220 72 095		400 72 006	BORLESKE SG	585 72 675
BLESSINGTON B	290 72 029	BOGE M	410 72 028	BORLIN JJ	325 72 034
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BLEY P	410 72 023		587 72 027	BORNSCHE I	490 72 019
BLEYERVE RH	595 72 017	BOGGS RA	325 72 047	BORONCHEV AT	345 72 008
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	370 72 026	BOGOLYUB GM	325 72 032		465 72 006
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	136 72 010	BOLLERT U	585 72 131	BOSTROEM K	300 72 036
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	587 72 049	BOLTON IJ	570 72 065		265 72 020
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BOBBIO SM	585 72 102		270 72 006	BOUDRY B	487 72 010
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BOBIN JL	430 72 010	BONILLA CF	188 72 013	BOUIN P	105 72 107
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BOBYKIN BV	440 72 001	BONNER FT	410 72 068	BOULDIN WJ	480 72 025
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	200 72 069	BORCHERT II	300 72 033		180 72 021
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	480 72 036	CERTAIN PR	265 72 030	CHASE WR	320 72 010
	480 72 037	CERVELLATI R	220 72 020	CHASOVITIN YK	530 72 093
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CARTER JG	565 72 007	CHAIT EM	370 72 033	CHEKE A	300 72 187
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	265 72 074	CHAMBERLAIN AT	480 72 039	CHEN F	585 72 174
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	270 72 008	CHAMBERS RO	187 72 034	CHEN HH	595 72 016
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	270 72 054	CHAMBERS VMA	325 72 050	CHEN JC	285 72 048
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	350 72 009	CHAMLEY H	300 72 052		265 72 032
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	518 72 002	CHAN SC	187 72 035	CHEN WT	595 72 066
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CHIZHOV OS	475 72 011		187 72 041	COHEN MJ	290 72 064
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	350 72 035	GLENN JL	300 72 095	GOODALL BL	180 72 025
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GRIFFITHS PR	300	72	100
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KVENVOLDEN KA	300 72 145		270 72 021	LAURIE WA	347 72 016
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	265 72 069	LANGER HD	240 72 025		200 72 085
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RUDLOFF WK	475 72 045	SAALFELD FE	180 72 148	SAKSONOVA LN	385 72 015
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	225 72 117		188 72 144		325 72 255
RUDOLPH RW	582 72 032		355 72 023		450 72 147
RUDOWSKI R	305 72 019	SABAU C	480 72 053		540 72 070
RUDSTAM G	410 72 121	SABIH K	410 72 122		540 72 084
RUDY CR	592 72 038	SABO E	290 72 259	SAKURAI T	587 72 236
RUECKER MR	470 72 020	SABOURAU C	300 72 187	SAKURAI, H	490 72 234
RUEDENAU FG	535 72 018	SABU OD	300 72 238	SALAH ON	540 72 054
RUEDENAUER F	470 72 025	SACCONI L	490 72 192	SALAITA GN	187 72 163
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	587 72 201	SACHS WH	470 72 036	SALEM SI	350 72 050
RUEST L (1)	585 72 270	SACHS WH	220 72 097	SALI E	450 72 079
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RUF MW	518 72 044		300 72 240		225 72 060
RUFFELL JP	370 72 094		300 72 268	SALMON M	490 72 044
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RUMTENBERG WD	395 72 027	SADAMOTO M	135 72 039	SALOMAA P	225 72 121
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RUMON KA	517 72 130	SADIH K	290 72 259	SALTAMACH VG	410 72 052
RUMPF G	290 72 256	SADOVSKA VL	140 72 062	SALTER WJM	115 72 071
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RUNQUIST O	450 72 023	SAENKO VA	370 72 157		120 72 033
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RUOKONEN A	290 72 257	SAFARIK I	390 72 052	SAMEDOVA TG	270 72 055
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RUSHO WJ	105 72 085		445 72 065	SAMON PJ	587 72 204
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	370 72 059		450 72 130	SAMPSON DH	270 72 022
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RUSSELL CA	585 72 438	SAFRON SA	202 72 111		470 72 029
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	460 72 068	TASSEL M	260 72 008	TEPLYKH VF	490 72 175
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	480 72 195	WALKER JA	480 72 122	WASHBURN CA	230 72 081
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VREE TB	290 72 306		525 72 021	WASKIK SP	290 72 294
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VROOM DA	185 72 043	WALKER LG	540 72 023		300 72 118
	265 72 192	WALKER PL	100 72 009		300 72 295
	355 72 077		100 72 010		305 72 037
VUGTS HF	835 72 006		135 72 062		305 72 062
VUJOVIC M	500 72 011		420 72 057		305 72 065
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	295 72 033	WALKINSHAW CH	290 72 314		585 72 831
VYKHREST NI	290 72 307		300 72 125	WASSMUTH HW	100 72 068
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WAAGE EV	245 72 030	WALL NS	390 72 057		200 72 146
WAALER PE	290 72 088	WALLACE A	415 72 057		300 72 021
	290 72 283	WALLACE G	405 72 104		300 72 296
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WADDINGTON CJ	200 72 144		587 72 206		587 72 257
WADSWORTH DM	325 72 229	WALLIN LB	405 72 105	WATANABE S	305 72 081
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WAGNER CD	518 72 057	WALTER KL	595 72 081	WATERBURY GR	115 72 051
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	585 72 104	WALTERS EA	230 72 080	WATERS JA	517 72 211
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	585 72 828	WALTERS KL	490 72 243	WATKINS DN	305 72 089
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	585 72 667	WANG CM	265 72 194	WATTS WE	187 72 191
	587 72 187	WANG CS	325 72 289	WAWER A	395 72 064
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WAGNER RS	100 72 102	WANGEN LE	220 72 123	WEBB GA	450 72 076
	100 72 103	WANI MC	570 72 494		490 72 083
WAGNER S	475 72 062		570 72 484	WCOO IH	325 72 009
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WAHL G	590 72 040	WANZLICK HW	585 72 218	WEBB PG	285 72 049
WAHL WC	550 72 025		585 72 834	WEBB RJ	430 72 078
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WELCH MJ	416 72 109	WHITE FA	135 72 059	WILLDIG E	480 72 008
WELGE KH	517 72 064		460 72 054	WILLHALM B	450 72 133
	530 72 067	WHITE G	450 72 068		570 72 450
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WELLS MG	100 72 047	WHITE JP	587 72 259		105 72 079
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	270 72 065	WHITE RF	587 72 260		450 72 039
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	325 72 074	WOJCIK LH	480 72 191		475 72 065
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WILLIAMS TF	285 72 051	WOJNAROVITS L (1)	540 72 027	WU RLC	475 72 066
WILLIAMS W	270 72 008	WOLCOTT RM	587 72 262	WU S	225 72 166
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WILLIS JM	415 72 011	WOLF F	355 72 089	WUNDERER H	585 72 860
WILLIS R	290 72 049	WOLF FA	420 72 039	WUNSCH E	105 72 121
WILLITS JL	220 72 125	WOLF G	585 72 853	WUNSCH E	585 72 682
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WILSON GE	585 72 850	WOLFF T	585 72 855		570 72 277
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WINGE RK	585 72 655	WONG EL	420 72 068		225 72 168
WINICUR DH	435 72 008	WONG KM	135 72 026	YAKUTSENI VP	400 72 041
WINKLER CA	270 72 067		135 72 027	YAMADA I	370 72 146
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	582 72 003		416 72 113		450 72 164
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WITKOP B	517 72 112	WORLEY SD	140 72 061		325 72 266
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	585 72 490	WUHMANN JJ	585 72 857		585 72 748
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ZIMMERMAN D	300 72	293
ZIMMERMAN DW	305 72	093
ZIMMERMAN HE	325 72	325
	517 72	217
ZIMMERMANN B	360 72	110
ZIMMERMANN M	310 72	055
ZINCHENKO GN	370 72	166
ZINCHENKO NS	370 72	166
ZINGARO RA	188 72	170
	325 72	326
ZINGERMA YP	100 72	113
ZINKEL DF	570 72	525
ZIONI J	405 72	117
ZIPF EC	225 72	138
	245 72	004
	245 72	031
	270 72	049
	270 72	059
	270 72	065
	518 72	062
	530 72	073
	530 72	094
ZIPF EC (2)	500 72	001
ZIPPEL F	220 72	020
ZIPPERER WC	180 72	122
	180 72	124
ZITKO V	230 72	084
	290 72	323
ZITKO V (1)	490 72	084
ZIYAVIDI ZS	490 72	245
ZLATKIS A	290 72	226
ZLOTINA IB	180 72	087
ZMBOV KF	475 72	070
ZOCH O	230 72	039
ZOLLINGER H	585 72	757
ZOLOTAREV BP	300 72	307
ZOLOTAREV VS	410 72	025
ZOLTEWICZ JA	225 72	170
ZOLTY S	105 72	087
ZOMMEFFEL'OT K	255 72	025
ZON BA	270 72	070
	525 72	070
ZORR WI	290 72	724
ZORKIN LM	300 72	308
ZORN JC	225 72	106
ZOSIMCV VV	560 72	001
ZRODNKO VS	345 72	004
ZS R (4)	570 72	396
ZSIGMOND G	592 72	013
ZUBENKU YV	100 72	065
ZUBER M	570 72	484
ZUBKOV IP	360 72	111
ZUCKERMAN B	375 72	020
ZUFFI L	210 72	021
ZUK W	370 72	167
ZUPAN M	585 72	878
ZUZAK W	345 72	009

ZVARA I	188 72	171
	405 72	118
ZVARA I (2)	405 72	034
ZVARA I (3)	405 72	035
ZVAROVA TS	290 72	325
ZVEZDIN VI	320 72	021
ZWAHLEN W (2)	585 72	314
ZWALLY HJ	200 72	107
	202 72	180
ZWANENBURG B	585 72	482
ZWANGGBANI ED	335 72	091
ZWEIG G	115 72	093
	290 72	268
ZWOLINSKI BJ	480 72	208
ZYLBER N	450 72	101