DOE R&D Accomplishments XML Service

About
The Department of Energy (DOE) Research and Development (R&D) Accomplishments is a central forum for information about the outcomes of past DOE R&D whose benefits are being realized now. They have had significant economic impact, have improved people’s lives, or have been widely recognized as remarkable advances in science. Its Database contains specially-selected searchable documents and bibliographic citations that report accomplishments from DOE, DOE contractor facilities, and DOE predecessors -- the Manhattan Project, the Atomic Energy Commission (AEC), and the Energy Research and Development Administration (ERDA). Its Web pages feature a renowned scientist or an important area of research. DOE R&D Accomplishments was developed and is maintained and supported by the DOE Office of Scientific and Technical Information (OSTI) and its Database may be used to search, locate, access, and download full-text and/or bibliographic information electronically. DOE R&D Accomplishments is available at http://www.osti.gov/accomplishments/xml.

Getting Started
The DOE R&D Accomplishments XML service is available from the URL:

http://www.osti.gov/accomplishments/xml

Using the DOE R&D Accomplishments XML Service
The parameters for the service are >CriteriaKeyword= where CriteriaKeyword is replaced by one of the criteria keywords listed below.

<table>
<thead>
<tr>
<th>Criteria Keyword</th>
<th>Data/Field Searched</th>
</tr>
</thead>
<tbody>
<tr>
<td>searchFor</td>
<td>All metadata fields and Web pages</td>
</tr>
<tr>
<td>Biblio</td>
<td>Bibliographic metadata fields (Database only)</td>
</tr>
<tr>
<td>Title</td>
<td>Title field</td>
</tr>
<tr>
<td>Author</td>
<td>Author field (Database only)</td>
</tr>
<tr>
<td>OSTI ID</td>
<td>OSTI ID multivalued field</td>
</tr>
<tr>
<td>DOI</td>
<td>DOI field</td>
</tr>
<tr>
<td>FullText</td>
<td>Document full text</td>
</tr>
</tbody>
</table>

Examples
The URL for a search on “nuclear” contained in the DOE R&D Accomplishments Database would be:

http://www.osti.gov/accomplishments/xml?Biblio=nuclear
The URL for a search on “plutonium” contained in both the DOE R&D Accomplishments Database and related Web pages would be:
http://www.osti.gov/accomplishments/xml?searchFor=plutonium

Searches may be conducted for specific words in the title, document full text, a specific author, Osti Id, and/or Doi using the Title, FullText, Author, Osti Id, and Doi criteria keywords.

Examples

The URL for a search of all bibliographic citations related to particles and containing Seaborg as an author would be:
http://www.osti.gov/accomplishments/xml?Biblio=particles&Author=seaborg

The URL for a search of all bibliographic citations where the words Chiral Symmetry is in the title would be:
http://www.osti.gov/accomplishments/xml?Title=Chiral%20Symmetry

The URL for a search of all bibliographic citations where the number equals to 4408656 is in the Osti Id would be:
http://www.osti.gov/accomplishments/xml?OstId=4408656

The URL for a search of all bibliographic citations where “10.1016/J.JCP.2014.08.024” is in the Doi would be:

The URL for a search of all document full text in which the word plutonium appears would be:

**Search Requests with Spaces or Multiple Search Terms**

The “+” separator is used to search for multiple terms within one field.

**Example**

The URL for a search on the “new technology” would be:
http://www.osti.gov/accomplishments/xml?searchFor=new+technology
Sorting as a Search Option

The table below lists various search options that can be used to sort results.

Sort Options

<table>
<thead>
<tr>
<th>Sort Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>relev</td>
<td>Sorts by the relevancy, based on search terms</td>
</tr>
<tr>
<td>title</td>
<td>Sorts by the title</td>
</tr>
<tr>
<td>creator</td>
<td>Sorts by the author/inventor</td>
</tr>
</tbody>
</table>

One or more search options may be specified in the URL. Specify each as search criteria, separated by ampersands (&).

Sorting Order

Results may be sorted by a number of specifications in ascending (ASC) or descending (DESC) order.

Example

The following URL performs a title search for the term neutrino and is sorted by title in ascending order.

http://www.osti.gov/accomplishments/xml?Title=neutrino&SortBy=title&SortOrder=ASC

More Information

For more information about DOE R&D Accomplishments XML Services, please visit:

http://www.osti.gov/accomplishments/XMLservice.html

Specific inquiries can be submitted via DOE R&D Accomplishments Contact Us at

http://www.osti.gov/accomplishments/comments.html

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