

DOE Data Explorer XML Data Service Query Parameters and Options

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About

Getting Started

The XML data service is available from the URL listed below.

<i>Data Service Name</i>	<i>XML Data Service URL</i>
DOE Data Explorer	http://www.osti.gov/dataexplorer/xml

This service accepts the parameters discussed below.

Using the XML Data Services

The parameters for each service are: `?CriteriaKeyword=` where `CriteriaKeyword` is replaced by one of the criteria keywords listed below. A blank query will return the entire result set for the given XML Service. The maximum number of records returned per page is 5000. **Please note that criteria keywords are case-sensitive and must be entered as shown in the table below.**

<i>Criteria Keyword</i>	<i>Data/Field Searched</i>
q	by all metadata fields
osti_id	by the unique OSTI Identifier assigned to a record
fulltext	by document full text only
author	by author/creators
title	by document titles
subject	by document keywords/subject

<i>Criteria Keyword</i>	<i>Data/Field Searched</i>
identifier	by document identifying numbers (e.g., report number.)
sponsor_org	by Sponsoring Organization (e.g. USDOE)
research_org	by Originating Research Organization

The entire query will be part of the “q=” parameter separated by AND or OR depending on what kind of query being performed.

Example

The URL for a search on “energy” in all fields of would be:

<http://www.osti.gov/dataexplorer/xml?q=energy>

The results would look similar to the example record below.

1.0: Wildcards

Queries using wildcard operators can be performed. The asterisk (*) is used to search for words with spelling variations or contain a specified pattern of characters.

Example

The following URL will return all the items with “sustain” and any words with “sustain” as a stem in the title.

http://www.osti.gov/dataexplorer/xml?q=title:sustain*

The following truncated results are returned. The search term has been highlighted.

```
<title>Current sustained by a travelling wave with phase velocity increasing in time</title>
<title>Nuclear energy for the preservation of the global environment and sustainable
development</title>
<title>Self sustaining fusion reactor by dynamo action</title>
<title>Current sustainment of a field-reversed configuration by rotating magnetic
field</title>
```

1.1: Multiple Search Terms

Multiple search terms and terms that require spaces can be separated by the plus symbol (+) or using the Boolean AND operator.

Example

The URL for a search for “particle” and “accelerator” would be:

<http://www.osti.gov/dataexplorer/xml?q=particle+AND+accelerator>

Searches using the Boolean OR operator can also be performed, retrieving records with one search term or the other.

Example

The URL for a search for “particle” or “accelerator” would be:

<http://www.osti.gov/dataexplorer/xml?q=particle+OR+accelerator>

1.2: Exact Phrase Search

Exact phrases can be searched by surrounding the search terms in double quotation marks (“ ”).

Example

The following URL searches records containing the exact phrase “particle accelerator” in the title.

<http://www.osti.gov/dataexplorer/xml?q=title:“particle accelerator”>

1.3: Returning Datasets

To return only Dataset records use the “dataset:true” parameter appended to a query. If all Dataset records are desired use the syntax as follows:

http://www.osti.gov/dataexplorer/xml?q=*: *%20AND%20dataset:true

1.4: Additional Format

Results may be returned in Comma-Separated Values (CSV) format by using the “format” parameter.

Example

The URL for an search for the exact phrase “particle accelerator” in the full text field returned in CSV format would be:

<http://www.osti.gov/dataexplorer/xml=“particle accelerator”&format=csv>