

LINKS ARTICLE MATCH RETRIEVAL SERVICE

VERSION 1.8

USER GUIDE

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Links Article Match Retrieval Service (Links AMR) is an API service that supplies:

- article data from Web of Science™ Core Collection
- article data from Data Citation Index
- Journal Impact Factor five-year trend graph from Journal Citation Reports®

Your service agreement specifies the data elements you may obtain.

In order to ensure consistent and reliable performance, Links AMR employs throttling to limit the number of citations processed per period. See *Bandwidth Throttling* (page 34) for more information.

If you have questions about using our products or about your access to them, please visit our support page at <http://ip-science.thomsonreuters.com/support>. This page has links to our support knowledgebase, the local telephone numbers, and hours of operation. When you click on the **Open eTicket** tab, your issue will be immediately routed to your local support team.

Questions about network connections and/or the use of your web browser should be directed to your network administrator.

Change History

Version	Change
1.3	Bandwidth throttling added to the service. See <i>Bandwidth Throttling</i> , page 34.
1.3	Information about data updates to Times Cited and Related Records® counts (page 19).
1.4	Addition of PMID to table of Web of Science data returned by the service (page 10).
1.4	Requests for data submitted to the "Lite" service must include an identifier for each article specified in the request (page 7).
1.4	New error message added that notifies users of the "Lite" service of an invalid request (page 32).
1.5	New service URL (page 15).
1.6	Bibliographic data may be submitted as a free-form citation (discontinued in version 1.7).
1.7	Added Data Citation Index as a source of article data (page 12).
1.7	Support for free-form citation requests has been discontinued.
1.8	Requests for data from Data Citation Index may include the URL of the source repository.

Data Accepted by Links Article Match Retrieval Service

This table lists the data elements that you may supply in order to identify articles for which you want matching data.

Data Element	Category	Description	Database	Example
DOI	Identifier	Digital Object Identifier	Web of Science Core Collection and Data Citation Index	10.1234/2007-0028
UT	Identifier	A unique identifier for a document record assigned by Thomson Reuters.	Web of Science Core Collection	000226260000003
UID	Identifier	A unique identifier for a document record assigned by Thomson Reuters.	Data Citation Index	DRCI:DATA2013076003363485
PMID	Identifier	A unique identification number assigned to records in MEDLINE. PMID stands for PubMed ID.	Web of Science Core Collection	3507846
Article Number	Bibliographic	A unique number assigned to an article by the journal publisher.	Web of Science Core Collection	122001
ISSN	Bibliographic	International standard serial number	Web of Science Core Collection and Journal Citation Reports	0300-8126
ISBN	Bibliographic	International book serial number	Web of Science Core Collection	1-57331-474-9
Author	Bibliographic	Author of the article. If the article has more than one author, you may specify up to five. The authors should be listed in the same order in which they appear in the source reference.	Web of Science Core Collection and Data Citation Index	Chang EH
Year	Bibliographic	Year of publication	Web of Science Core Collection and Data Citation Index	2002
Book Title	Bibliographic	Book title or title of a volume of conference proceedings.	Web of Science Core Collection	Apoptosis: From Signaling Pathways to Therapeutic Tools
Book Series Title	Bibliographic	Book series title.	Web of Science Core Collection	Annals of the New York Academy of Sciences
Article Title	Bibliographic	Title of the article	Web of Science Core Collection	Hibernation reduces pancreatic amylase levels in ground squirrels

Study Title	Bibliographic	Title of the study	Data Citation index	Single Nucleotide Polymorphisms in HSP17.8 and Their Association with Agronomic Traits in Barley
Journal Title	Bibliographic	Full title of the journal.	Web of Science Core Collection and Journal Citation Reports	Journal of Plant Physiology
Volume	Bibliographic	Journal volume	Web of Science Core Collection	25
Issue	Bibliographic	Journal issue	Web of Science Core Collection	5
Start page	Bibliographic	Start page of the article	Web of Science Core Collection	31
Document Type	Controlled Vocabulary	One of three values: <ul style="list-style-type: none"> • Data Set • Data Study • Repository 	Data Citation Index	Repository
URL of the study record in the source repository	Bibliographic	URL	Data Citation Index	http://www.uniprot.org/uniprot/P03891

Guidelines for Specifying Citations: Web of Science Core Collection

Identifiers

In most cases, any one of the identifiers ([DOI](#), PMID, UT) is sufficient to uniquely identify an article. You may include multiple identifiers for a single article. You may also include bibliographic data along with one or more identifiers.

Bibliographic Data

You may include bibliographic data along with an identifier to specify an article. If an identifier is not available, you must supply all of the following bibliographic elements:

1. Journal title
2. Volume
3. Issue
4. Start page or article number

If you do not know the journal title, the combination of author and ISSN in place of journal title should return results. For example, each of the following combinations should uniquely identify an article:

- Journal title + volume + issue + start page
- Journal title + volume + issue + article number
- Author + ISSN + volume + issue + start page
- Author + ISSN + volume + issue + article number

You may include more bibliographic data than the minimum required. For example, you may add an author name to a request that uses the journal title, volume, issue and page to specify the citation. This would be essential if two or more articles appear on the same page of a journal.

Note: If you have been granted access to the “Lite” version of the service, the Links Article Match Retrieval Service will not allow you to request matching data for articles specified by bibliographic elements only. You will receive an error message if your request does not include an identifier (DOI, UT, PMID) for each article.

About Journal Titles

- If you know the ISSN, always include it in your request.
- If the full journal title includes a subtitle, use only the main title in the request. Many book series and published proceedings contain subtitles. For example, the title *Proceedings of the Sixth International Conference on Difference Equations – New Progress in Difference Equations* should be truncated to *Proceedings of the Sixth International Conference on Difference Equations*.
- Journal titles can change. If the title you submit has been superseded by another title for the same publication, a match may not be found.
- Consult the master journal list available on <http://ip-science.thomsonreuters.com/mjl/> for full journal titles.
- The XML element used to identify a journal title must include an entity reference or CDATA construct. See page 19 for more information and an example.

About Author Names

The name you supply must match the name in the database. If the name contains a particle such as *de* or *van*, or if it contains a hyphen or an apostrophe, a match may not be found. If no match is found, try submitting another request using a variant spelling (*VanDyke* instead of *Van Dyke*). Case does not matter: *De Gaudenzi* is the same as *de Gaudenzi*.

Author names must adhere to this format: surname followed by a comma and one or more initials not separated by periods. For example:

```
<list name="authors">
  <val>Knueppel, T</val>
  <val>Rudolph, JP</val>
  <val>Jurado-Barba, R</val>
  <val>De Gaudenzi, JG</val>
</list>
```

You may also specify a group author. For example:

```
<list name="authors">
  <val>Uniprot Consortium</val>
</list>
```

Guidelines for Specifying Citations: Data Citation Index

Identifiers

In most cases, either of the identifiers ([DOI](#) or [UID](#)) is sufficient to uniquely identify a data study. You may include multiple identifiers for a single data study. You may also include bibliographic data along with one or more identifiers.

Bibliographic Data

You may include bibliographic data along with an identifier to specify a data study. If an identifier is not available, you must supply all of the following bibliographic elements:

1. Study title
2. Publication year
3. Author name. If the study has more than one author, one name is generally sufficient.

Note: If you have been granted access to the “Lite” version of the service, the Links Article Match Retrieval Service will not allow you to request matching data for articles specified by bibliographic elements only. You will receive an error message if your request does not include either a DOI or a UID for each record requested. Other data elements such as the title of the repository and the document type may be included, but they are not mandatory.

About Author Names

The name you supply must match the name in the database. If the name contains a particle such as *de* or *van*, or if it contains a hyphen or an apostrophe, a match may not be found. If no match is found, try submitting another request using a variant spelling (*VanDyke* instead of *Van Dyke*). Case does not matter: *De Gaudenzi* is the same as *de Gaudenzi*.

Author names must adhere to this format: surname followed by a comma and one or more initials not separated by periods. For example:

```
<list name="authors">  
  <val>Knueppel, T</val>  
  <val>Rudolph, JP</val>  
  <val>Jurado-Barba, R</val>  
  <val>De Gaudenzi, JG</val>  
</list>
```

You may also specify a group author. For example:

```
<list name="authors">  
  <val>Uniprot Consortium</val>  
</list>
```

Web of Science Core Collection Data Returned by the Service

Data Element	Description	EXAMPLE
Times Cited	The number of times a published article was cited by other papers.	30
UT	A unique identifier for a journal article assigned by Thomson Reuters.	000226260000003
DOI	Digital Object Identifier	10.1234/2007-0028
PMID	A unique identification number assigned to records in MEDLINE. PMID stands for PubMed ID.	3507846
Source URL	URL of the full record from Web of Science Core Collection	<![CDATA[http://links.int.acad.isinet.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyUT=000203011100014&DestLinkType=FullRecord&DestApp=WOS_CPL&UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]>
Citing Article URL	URL of the list of citing articles in Web of Science Core Collection	<![CDATA[http://links.int.acad.isinet.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyUT=000203011100014&DestLinkType=CitingArticles&DestApp=WOS_CPL&UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]>
Related Records URL	URL of the list of Related Records in Web of Science Core Collection	<![CDATA[http://links.int.acad.isinet.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyUT=000203011100014&DestLinkType=RelatedRecords&DestApp=WOS_CPL&UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]>
Title	Title of the article	Preliminary observations on the effect of amitriptyline treatment in preventing syncope recurrence in patients with vasovagal syncope
ISBN	ISBN	978-1-84755-829-9
ISSN	ISSN	1082-720X
Issue	Issue	11
Volume	Volume	4
Year	Publication Year	2007
Number of Pages	Total number of pages	5

Each URL returned by the service contains values that identify you and the application that uses the URL:

- You may replace the SrcApp value with the name of the application into which the URL is placed. This information is useful for tracking purposes. However, this information is not required, and the service will work if you leave the value as PARTNER_APP.
- The SrcAuth value (PartnerName in the example above) will automatically be replaced by a term that identifies you as the user of the service. You need not edit or change this value.

Data Updates

Times Cited

The Times Cited number for an article can change when new data are added to Web of Science. The system is updated once a week on Friday. Consequently, if you wish to obtain the most recent Times Cited count for an article, you need only request it once a week and then cache the data for seven days.

Related Records

Once you have obtained the URL for Related Records, you do not need to request it again. The URL will always link to the most recent list of Related Records for the article.

How to Display Links to Web of Science

The text that should appear on the user interface depends on the link type. The text should be hyperlinked, redirecting the user to the appropriate page in Web of Science Core Collection. Note that *Related Records* is a registered trademark. *Web of Science* is a trademark.

Link Type	Text to Display
Full record link	View record in Web of Science™ Core Collection
Citing articles link	View citing articles in Web of Science™ Core Collection
Related Records link	View Related Records® in Web of Science™ Core Collection

In addition, you should indicate that the Times Cited count comes from Web of Science Core Collection. The number should be prefaced by *Web of Science™ Core Collection*, as illustrated below:

Web of Science™ Core Collection Times Cited: 35

You may hyperlink the number to the Citing Articles page in Web of Science Core Collection.

Data Citation Index Data Returned by the Service

Data Element	Description	EXAMPLE
All Databases Times Cited	The number of times a published article was cited by other papers	30
UID	A unique identifier for a journal article assigned by Thomson Reuters	DRCI:DATA2012174001827830
DOI	Digital Object Identifier	10.1371/journal.pone.0000978.t003
Source URL	URL of the data study record in Data Citation Index	<![CDATA[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyUT=DRCI:DATA2012174001827830&DestLinkType=FullRecord&DestApp=DRCI_CEL&UsrCustomerID=xxxxxxxxx]]>
All Databases Citing Article URL	URL of the list of citing articles from All Databases in Web of Science	<![CDATA[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyUT=DRCI:DATA2012174001827830&DestLinkType=CitingArticles&DestApp=UA_CEL&UsrCustomerID=xxxxxxxxx]]>
URL of the repository	URL of the repository	http://hdl.handle.net/10956/84

Each URL returned by the service contains values that identify you and the application that uses the URL:

- You may replace the SrcApp value with the name of the application into which the URL is placed. This information is useful for tracking purposes. However, this information is not required, and the service will work if you leave the value as PARTNER_APP.
- The SrcAuth value (PartnerName in the example above) will automatically be replaced by a term that identifies you as the user of the service. You need not edit or change this value.

Data Updates

Times Cited

The Times Cited number for an article can change when new data are added to Web of Science. The system is updated once a week on Friday. Consequently, if you wish to obtain the most recent Times Cited count for an article, you need only request it once a week and then cache the data for seven days.

How to Display Links to Data Citation Index

The text that should appear on the user interface depends on the link type. The text should be hyperlinked, redirecting the user to the appropriate page in Data Citation Index. Note that *Data Citation Index* is a service mark.

Link Type	Text to Display
Full record link	View record in Data Citation Index SM

Citing articles link	View citing articles in Web of Science™ All Databases
----------------------	---

In addition, you should indicate that the Times Cited count comes from All Databases in Web of Science. The number should be prefaced by *Web of Science™ All Databases*, as illustrated below:

Web of Science™ All Databases Times Cited: 35

You may hyperlink the number to the Citing Articles page in Web of Science.

JCR Data Returned by the Service

Impact Factor Trend Graph

Data Element	Description	EXAMPLE
Journal Impact Factor Trend Graph URL	URL of the graph depicting the Journal Impact Factor for a five-year period.	<code>http://links-qa.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=PartnerName_test&KeyRecord=1040-446&PointOfEntry=Impact&DestApp=JCR&UsrCustomerID=xxxxxx</code>

The URL contains values that identify you and the application that uses the URL.

- You may replace the SrcApp value with the name of the application into which the URL is placed. This information is useful for tracking purposes. However, this information is not required, and the service will work if you leave the value as PARTNER_APP.
- The SrcAuth value (PartnerName in the example above) will automatically be replaced by a term that identifies you as the user of the service. You need not edit or change this value.

How to Display a Link to Journal Citation Reports

The text that should appear on the user interface depends on the link type. The text should be hyperlinked, redirecting the user to the appropriate page in Journal Citation Reports. Note that Journal Citation Reports is a registered trademark. The registered trademark symbol must be placed after the mark as shown below.

Link Type	Text to Display
Impact Factor trend graph	View Impact Factor trend graph in Journal Citation Reports®

Request/Response API

The service employs an application program interface (API) to process the request and to return the specified data. The request API specifies the data you want to obtain and the article(s) or journals for which you want matching data. The response API returns the requested data.

To submit the request, you must make an HTTPS post request to **<http://gateway.webofknowledge.com/gateway/Gateway.cgi>**. The specific syntax of the Request/Response APIs and descriptions of XML elements are provided in the appendices.

Follow these guidelines in determining whether to make multiple requests:

- For Web of Science Core Collection or Data Citation Index, a single request may specify up to 50 different articles.
- For Journal Citation Reports, a single request may specify up to 50 different journals. One request may also specify different publication years of the same journal.
- You must submit a separate request for data from each databases: Web of Science Core Collection, Data Citation Index or Journal Citation Reports.
- If you want the same data elements for multiple articles, you may submit a single request. For example, if you want both DOIs and Times Cited counts for 25 articles, only one request is needed.
- You must make separate requests if you want different data for different articles. For example, if you want to obtain DOIs for some articles and Times Cited counts for other articles, you must submit two separate requests.

Request API for Web of Science Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<request xmlns="http://www.isinet.com/xrpc42" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve">
    <list>
      <!-- WHO'S REQUESTING -->
      <map>
        <val name="username">your username</val>
        <val name="password">your password</val>
      </map>
      <!-- WHAT'S REQUESTED -->
      <map>
        <list name="WOS">
          <val>timesCited</val>
          <val>ut</val>
          <val>doi</val>
          <val>pmid</val>
          <val>sourceURL</val>
          <val>citingArticlesURL</val>
          <val>relatedRecordsURL</val>
        </list>
      </map>
    <!-- LOOKUP DATA -->
    <map>
      <!-- QUERY "cite_1" -->
      <map name="cite_1">
        <val name="doi">DOI</val>
      </map> <!-- end of cite_1-->
      <!-- QUERY "cite_2" -->
      <map name="cite_2">
        <val name="ut">UT value</val>
      </map> <!-- end of cite_2-->
      <!-- QUERY "cite_3" -->
      <map name="cite_3">
        <val name="atitle">article title string</val>
        <val name="stitle">full journal title</val>
        <val name="issn">ISSN</val>
        <val name="vol">volume number</val>
        <val name="issue">issue number</val>
        <val name="year">publication year</val>
        <val name="spage">starting page number</val>
      <!-- authors list can be used to specify multiple authors -->
      <list name="authors">
        <val>First, AU</val>
        <val>Second, AU</val>
        <val>Third, AU</val>
      </list>
    </map> <!-- end of cite_3-->
      <!-- QUERY "cite_4" -->
      <map name="cite_4">
        <val name="an">article number</val>
        <val name="stitle">full journal title</val>
        <val name="year">publication year</val>
      </map> <!-- end of cite_4-->
      <!-- QUERY "cite_5" -->
      <map name="cite_5">
        ...
      </map> <!-- end of cite_5-->
    </map> <!-- end of citations -->
  </list>
</fn>
</request>
```

Sample Request by Identifiers

```
<?xml version="1.0" encoding="UTF-8" ?>
<request xmlns="http://www.isinet.com/xrpc42" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve">
    <list>
      <!-- WHO'S REQUESTING -->
      <map>
        <val name="username">testuser</val>
        <val name="password">testpassword</val>
      </map>
      <!-- WHAT'S REQUESTED -->
      <map>
        <list name="WOS">
          <val>timesCited</val>
          <val>ut</val>
          <val>doi</val>
          <val>pmid</val>
          <val>sourceURL</val>
          <val>citingArticlesURL</val>
          <val>relatedRecordsURL</val>
        </list>
      </map>
      <!-- LOOKUP DATA -->
      <map>
        <map name="cite_1">
          <val name="ut">000203011100014</val>
        </map>
        <map name="cite_2">
          <val name="doi">10.1007/s00259-003-1169-2</val>
        </map>
      </map>
    </list>
  </fn>
</request>
```

Sample Request by Bibliographic Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<request xmlns="http://www.isinet.com/xrpc42" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve">
    <list>
      <!-- WHO'S REQUESTING -->
      <map>
        <val name="username">testuser</val>
        <val name="password">testpassword</val>
      </map>
      <!-- WHAT'S REQUESTED -->
      <map>
        <list name="WOS">
          <val>timesCited</val>
          <val>ut</val>
          <val>doi</val>
          <val>pmid</val>
          <val>sourceURL</val>
          <val>citingArticlesURL</val>
          <val>relatedRecordsURL</val>
        </list>
      </map>
      <!-- LOOKUP DATA -->
      <map>
        <map name="cite_1">
          <val name="atitle">New kilogram-synthesis of the anti-Alzheimer drug (-)-galanthamine</val>
          <val name="stitle">TETRAHEDRON LETTERS</val>
          <val name="vol">39</val>
        </map>
      </map>
    </list>
  </fn>
</request>
```

```

        <val name="issue">15</val>
        <val name="spage">2087</val>
        <val name="issn">0040-4039</val>
        <val name="year">1998</val>
        <list name="authors">
            <val>Czollner, L</val>
            <val>Frantsits, W</val>
            <val>Kuenburg, B</val>
            <val>Hedenig, U</val>
            <val>Frohlich, J</val>
            <val>Jordis, U</val>
        </list>
    </map>
</map>
</list>
</fn>
</request>

```

Description of XML Elements

```

<request xmlns="http://www.isinet.com/xrpc42"
src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">

```

This element is the root node for the request. The XML namespace is defined. The src attribute specifies information about the partner and the system used to generate the request. The src attribute is not required. However, this information will enable us to assist you with any troubleshooting.

```

<fn name="LinksAMR.retrieve">

```

This element specifies the service function call. The value of the *name* attribute is the name of the API call. Currently, this is restricted to "LinksAMR.retrieve", which specifies the retrieve API of the LinksAMR service that is used to satisfy the request. LinksAMR.retrieve request consists of three mandatory request elements implemented as "map" subsections.

Map Subsection 1

The first map subsection specifies **WHO** makes the request and is used to authenticate the request. There are two variations:

1. Username/password. If you received a user name and password from Thomson Reuters, use them.

```

    <map>
    <val name="username">username</val>
    <val name="password">test</val>
    </map>

```

2. IP address. If your institution subscribes to Web of Science, authentication will happen automatically. By inserting an empty <map> element in this map subsection, you instruct the service to authenticate your request by IP address.

```

    <map>
    </map>

```

The IP will be obtained from the HTTPS request.

Map Subsection 2

The second map subsection specifies **WHAT** is requested (so called "return_data" map). It contains one named list comprising the data elements to be included in the response.

Note: The specific elements that you retrieve are determined by the terms of your service agreement. See *Entitlement Errors*, page 32.

```

    <list name="WOS">

```

The value of *list name* is the code for the database to be searched for matching citations. The code for Web of Science Core Collection is WOS.

<val>timesCited</val>

Times Cited counts

<val>ut</val>

UT identifiers

<val>doi</val>

DOI identifiers

<val>pmid</val>

PMID (PubMed) identifiers

<val>title</val>

Article title

<val>isbn</val>

ISBN

<val>issn</val>

ISSN

<val>issue</val>

Journal issue

<val>vol</val>

Journal volume

<val>year</val>

Publication year

<val>tpages</val>

Total pages

<val>sourceURL</val>

URLs to bibliographic data for matched citations. URLs will target the Web of Science collection specified in the list name.

<val>citingArticlesURL</val>

URLs to the Citing Articles summary pages for matched citations.

<val>relatedRecordsURL</val>

URLs to the WoK Related Records Summary page for matched citations will be returned in the response.

Map Subsection 3

The third map subsection specifies **LOOKUP DATA**, or citations. In this section, you specify the articles for which you are requesting data. The table on page 6 lists the data elements you may use to specify citations.

<map name="cite_id">

The root node for an individual citation (query). Use the "cite_id" attribute to identify single articles. This value should be unique for each citation. You may use any combination of letters and numbers to uniquely identify an article. Example, cite_1, cite_2, cite_3.

This attribute will be included in the response with the article matches.

You may specify up to 50 citations in one request. It is more efficient to include multiple citations per request than to make one request per citation.

<val name="atitle">Pancreatic Islet Transplantation: From Dogs to Humans and Back Again</val>

Title of the article

```
<val name="stitle">Veterinary Surgery</val>
```

Full title of the journal or book series (do not use abbreviated titles). You may use upper, lower, or mixed case. The service is not case-sensitive. See the section, *About Journal Titles*, on page 8, for specific guidelines.

Note: Check the title for the following special characters: apostrophe ('), double quotation marks ("), and ampersand (&). If it contains any of these, the XML element must include an entity reference or CDATA construct so that these special characters are interpreted correctly. For example:

```
<val name="stitle"><![CDATA[MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING]]></val>
```

or

```
<val name="stitle">MEDICAL &amp; BIOLOGICAL ENGINEERING &amp; COMPUTING</val>
```

See page 8 for more guidelines on entering journal titles.

```
<val name="issn">1234-5678</val>
```

ISSN or eISSN. Be sure to include the hyphen. If the same journal has separate ISSNs for print and electronic, use the ISSN for the print publication.

```
<val name="isbn">0-8493-1621-9</val>
```

ISBN or eISBN. Be sure to include the hyphens.

```
<val name="vol">3</val>
```

Volume of the journal in which the article was published.

```
<val name="issue">12</val>
```

Issue of the journal in which the article was published.

```
<val name="year">2008</val>
```

Cover date year.

```
<val name="spage">25</val>
```

Starting page of the article.

```
<list name="authors">
```

List type element containing one or more author name values.

```
<val>Silva, RM</val>
```

One author name. Enter a surname, followed by a comma and one or more initials not separated by periods.

```
<val name="ut">000203011100014</val>
```

Thomson Reuters unique identifier for the article.

```
<val name="doi">10.1007/s00259-003-1169-2</val>
```

Article DOI

```
<val name="an">122001</val>
```

Article number.

```
<val name="pmid">11273238</val>
```

Unique identification number assigned to records in MEDLINE. PMID stands for PubMed ID.

Response API for Web of Science Core Collection Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://www.isinet.com/xrpc42"
  src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
  <fn name="LinksAMR.retrieve" rc="OK">
    <map>
      <!-- RESPONSE for QUERY "cite_1" -->
      <map name="cite_1">
        <map name="WOS">
          <val name="timesCited">Times Cited count</val>
          <val name="ut">UT value</val>
          <val name="doi">DOI</val>
          <val name="sourceURL"><![CDATA[URL of the record in Web of Science Core Collection]]></val>
          <val name="citingArticlesURL"><![CDATA[URL of the Citing Articles page in Web of Science Core Collection]]></val>
          <val name="relatedRecordsURL"><![CDATA[URL of the Related Records page in Web of Science Core Collection]]></val>
        </map>
      </map>
      <!-- RESPONSE for QUERY "cite_2" -->
      <map name="cite_2">
        <map name="WOS">
          ...
        </map>
      </map>
    </map>
  </fn>
</response>
```

Description of Response XML Elements

```
<response xmlns="http://www.isinet.com/xrpc42"
src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
```

Root node for the response XML. The `src` attribute specifies information about the service instance used to satisfy the request.

```
<fn name="LinksAMR.retrieve" rc="OK">
```

Specifies the name of the LinksAMR API called. Supports a single attribute named `rc` that provides a return code. A value of "OK" indicates successful completion of the request.

```
<map>
```

All returned data are encapsulated in this map.

```
<map name="cite_id">
```

One per citation included in the request. The *name* attribute identifies the article. Note that the order of citations in the response may not match the order of citations in the request.

```
<map name="WOS">
```

Identifies Web of Science Core Collection as the Web of Science database from which the data elements were retrieved.

```
<val name="timesCited">13</val>
```

Times Cited count for the article.

```
<val name="ut">000203011100014</val>
```

Thomson Reuters unique identifier for the article.

```
<val name="doi">10.1007/s00259-003-1169-2</val>
```

Article DOI

```
<val name="pmid">11073138</val>
```

PubMed ID

```
<val name="sourceURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/  
Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=Partner_test&  
KeyUT=000203011100014&DestLinkType=FullRecord&DestApp=WOS_CPL&  
UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>
```

Full URL of the record in Web of Science Core Collection.

```
<val name="citingArticlesURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/  
Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=Partner_test&  
KeyUT=000203011100014&DestLinkType=CitingArticles&DestApp=WOS_CPL&  
UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>
```

Full URL of the Citing Article summary page for the article.

```
<val name="relatedRecordsURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/  
Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=Partner_test&  
KeyUT=000203011100014&DestLinkType=RelatedRecords&DestApp=WOS_CPL&  
UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>
```

Full URL of the Related Records summary page for the article.

Request API for Data Citation Index Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<request xmlns="http://www.isinet.com/xrpc42" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve">
    <list>
      <!-- WHO'S REQUESTING -->
      <map>
        <val name="username">highwire</val>
        <val name="password">test</val>
      </map>
      <!-- WHAT'S REQUESTED -->
      <map>
        <list name="DRCI">
          <val>citingArticlesAllDBURL</val>
          <val>uid</val>
          <val>doi</val>
          <val>sourceURL</val>
          <val>timesCitedAllDB</val>
          <val>repositoryLinkURL</val>
        </list>
      </map>
      <!-- LOOKUP DATA -->
      <map>
        <map name="cite_1">
          <val name="uid">UID value</val>
        </map>
        <map name="cite_2">
          <val name="atitle">study title</val>
          <val name="doctype">document type</val>
          <val name="year">publication year</val>
          <list name="authors">
            <val>First, AU</val>
            <val>Second, AU</val>
          </list>
        </map>
        <map name="cite_3">
          <val name="doi">DOI</val>
        </map>
      </map>
    </list>
  </fn>
</request>
```

Description of XML Elements

```
<request xmlns="http://www.isinet.com/xrpc42"
src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
```

This element is the root node for the request. The XML namespace is defined. The src attribute specifies information about the partner and the system used to generate the request. The src attribute is not required. However, this information will enable us to assist you with any troubleshooting.

```
<fn name="LinksAMR.retrieve">
```

This element specifies the service function call. The value of the *name* attribute is the name of the API call. Currently, this is restricted to "LinksAMR.retrieve", which specifies the retrieve API of the LinksAMR service that is used to satisfy the request. LinksAMR.retrieve request consists of three mandatory request elements implemented as "map" subsections.

Map Subsection 1

The first map subsection specifies **WHO** makes the request and is used to authenticate the request. There are two variations:

1. Username/password. If you received a user name and password from Thomson Reuters, use them.

```
<map>
  <val name="username">username</val>
  <val name="password">test</val>
</map>
```

2. IP address. If your institution subscribes to Web of Science, authentication will happen automatically. By inserting an empty <map> element in this map subsection, you instruct the service to authenticate your request by IP address.

```
<map>
</map>
```

The IP will be obtained from the HTTPS request.

Map Subsection 2

The second map subsection specifies **WHAT** is requested (so called "return_data" map). It contains one named list comprising the data elements to be included in the response.

Note: The specific elements that you retrieve are determined by the terms of your service agreement. See *Entitlement Errors*, page 32.

```
<list name="DRCI">
```

The value of *list name* is the code for the database to be searched for matching citations. The code for Data Citation Index is DRCI.

```
<val>citingArticlesAllDBURL</val>
```

Specifies that URLs to the Citing Articles summary page for matched citations will be returned in the response. These pages may have citing articles from the following citation databases:

- BIOSIS Citation Index
- Data Citation Index
- Chinese Science Citation Index
- SciELO Citation Index
- Web of Science Core Collection

```
<val>uid</val>
```

UID identifiers

```
<val>doi</val>
```

DOI identifiers

```
<val>sourceURL</val>
```

Specifies that URLs to bibliographic data for matched citations will be returned in the response. URLs will target the Web of Science collection specified in the list name.

```
<val>timesCitedAllDB</val>
```

All Databases Times Cited counts

```
<val>repositoryLinkURL</val>
```

Specifies that URLs to the full records of source repositories will be returned in the response.

Map Subsection 3

The third map subsection specifies **LOOKUP DATA**, or citations. In this section, you specify the articles for which you are requesting data. The table on page 6 lists the data elements you may use to specify citations. *Note:* You may use upper, lower, or mixed case. The service is not case-sensitive.

```
<map name="cite_id">
```

The root node for an individual citation (query). Use the "cite_id" attribute to identify single articles. This value should be unique for each citation. You may use any combination of letters and numbers to uniquely identify an article. Example, cite_1, cite_2, cite_3.

This attribute will be included in the response with the article matches.

You may specify up to 50 citations in one request. It is more efficient to include multiple citations per request than to make one request per citation.

```
<val name="atitle">A Glucose BioFuel Cell Implanted in Rats</val>
```

1) Title of the study. 2) Repository title. You may use <atitle> or <stitle> to specify the repository title.

```
<val name="doctype">Data set</val>
```

Document type. This element can take one of three values: *Data Set*, *Data Study*, or *Repository*. The service is not case-sensitive.

```
<val name="stitle">Figshare</val>
```

Repository title. You may use <atitle> or <stitle> to specify the repository title.

```
<val name="year">2010</val>
```

Year of publication.

```
<list name="authors">
```

List type element containing one or more author name values.

```
<val>Cinquin, P*</val>
```

One author name. Enter a surname, followed by a comma and one or more initials not separated by periods. It is advisable to truncate after the first initial. Names in Data Citation Index may include the full first name or initials. You may also enter the name of a group author.

```
<val name="uid">DRCI:DATA2013072003295351</val>
```

Thomson Reuters unique identifier for the article.

```
<val name="doi">10.1371/journal.pone.0010476.s001</val>
```

Article DOI

```
<val name="repository_url">http://www.uniprot.org/uniprot/P03891</val>
```

URL of the study record in the source repository. *Note:* A URL containing an ampersand will not find matching citations. For example: <http://www.ngdc.noaa.gov/nmmrview/metadata.jsp?id=gov.noaa.nos:H00051&view=iso2html&altview=none>

Response API for Data Citation Index

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://www.isinet.com/xrpc42"
  src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
  <fn name="LinksAMR.retrieve" rc="OK">
    <map>
      <!-- RESPONSE for QUERY "cite_1" -->
      <map name="cite_1">
        <map name="DRCI">
          <val name="uid">UID of the record in Data Citation Index</val>
          <val name="sourceURL"><![CDATA[URL of the source record in Data Citation Index]]></val>
          <val name="timesCitedAllDB">All Databases Times Cited count</val>
          <val name="citingArticlesAllDBURL"><![CDATA[URL of the All Databases Citing Articles page]]></val>
          <val name="doi">DOI</val>
        </map>
      </map>
      <!-- RESPONSE for QUERY "cite_2" -->
      <map name="cite_2">
        <map name="DRCI">
          ...
        </map>
      </map>
    </fn>
  </response>
```

Description of Response XML Elements

```
<response xmlns="http://www.isinet.com/xrpc42"
  src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
```

Root node for the response XML. The `src` attribute specifies information about the service instance used to satisfy the request.

```
<fn name="LinksAMR.retrieve" rc="OK">
```

Specifies the name of the LinksAMR API called. Supports a single attribute named `rc` that provides a return code. A value of "OK" indicates successful completion of the request.

```
<map>
```

All returned data are encapsulated in this map.

```
<map name="cite_id">
```

One per citation included in the request. The *name* attribute identifies the article. Note that the order of citations in the response may not match the order of citations in the request.

```
<map name="DRCI">
```

Identifies Data Citation Index as the Web of Science database from which the data elements were retrieved.

```
<val name="uid">DRCI:DATA2014037003200392</val>
```

Thomson Reuters unique identifier for the record.

```
<val name="sourceURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/Gateway.cgi?
GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=Partner_test&KeyUT=
DRCI:DATA2014037003200392&DestLinkType=FullRecord&DestApp=DRCI_CEL&UsrCustomerID=
9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>
```

Full URL of the record in Data Citation Index.

<val name="timesCited">2</val>

Times Cited count for the article.

<val name="citingArticlesAllDBURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=Partner_test&KeyUT=DRCI:DATA2014037003200392&DestLinkType=CitingArticles&DestApp=UA_CEL&UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>

Full URL of the Citing Article summary page for the article.

<val name="doi">10.1371/journal.pone.0058731.t001</val>

Article DOI

Request API for JCR Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<request xmlns="http://www.isinet.com/xrpc42"
src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
  <fn name="LinksAMR.retrieve">
    <list>
<!-- WHO'S REQUESTING -->
      <map>
        <val name="username">username</val>
        <val name="password">test</val>
      </map>
<!-- WHAT'S REQUESTED -->
      <map>
        <list name="JCR">
          <val>impactGraphURL</val>
        </list>
      </map> <!--end "return_data" -->
<!-- LOOKUP DATA -->
      <map>
<!-- QUERY "cite_id" -->
        <map name="cite_id">
          <val name="title">full journal title</val>
          <val name="issn">1234-5678</val>
        </map> <!-- end of cite_id-->
<-- QUERY "cite_id2" -->
        <map name="cite_id2">
          ...
        </map>
-->
      </map> <!-- end of citations -->
    </list>
  </fn>
</request>
```

Description of XML Elements

```
<request xmlns="http://www.isinet.com/xrpc42"
src="app.id=PartnerApp,env.id=PartnerAppEnv,partner.email=EmailAddress">
```

This element is the root node for the request. The XML namespace is defined. The src attribute specifies information about the partner and the system used to generate the request. The src attribute is not required. However, this information will enable us to assist you with any troubleshooting.

```
<fn name="LinksAMR.retrieve">
```

This element specifies the service function call. The value of the *name* attribute is the name of the API call. Currently, this is restricted to "LinksAMR.retrieve", which specifies the retrieve API of the LinksAMR service that is used to satisfy the request. LinksAMR.retrieve request consists of three mandatory request elements implemented as "map" subsections.

Map Subsection 1

The first map subsection specifies **WHO** makes the request and is used to authenticate the request. There are two variations:

1. Username/password. If you received a user name and password from Thomson Reuters, use them.

```
<map>
<val name="username">username</val>
<val name="password">test</val>
```

</map>

2. IP address. If your institution subscribes to Web of Science, authentication will happen automatically. By inserting an empty <map> element in this map subsection, you instruct the service to authenticate your request by IP address.

<map>
</map>

The IP will be obtained from the HTTPS request.

Map Subsection 2

The second map subsection—the "return-data" map—specifies **WHAT** you are requesting. This section groups the data elements to be included in the response. It contains one named list.

<list name="JCR">

The list name identifies the product code. For requests for Journal Citation Reports data, the value should be JCR.

<val>ImpactGraphURL</val>

URL of the graph depicting the Journal Impact Factor for a five-year period.

Map Subsection 3

The third map subsection—the "cite" map—specifies **LOOKUP DATA**. In this section, you specify the journals for which you are requesting data.

<map name="cite_id">

The root node for an individual journal (query). Use the "cite_id" attribute to identify single journals. This value should be unique for each citation. You may use any combination of letters and numbers to uniquely identify a journal. Example, cite1, cite2, cite3.

This attribute will be included in the response with the journal matches.

You may specify up to 50 journals in one request. It is more efficient to include multiple journals per request than to make one request per journal.

<val name="title">European Journal of Clinical Pharmacology</val>

Full title of the journal (i.e., not an abbreviated title). You may use upper, lower, or mixed case. The system is not case-sensitive.

Note: Check the title for the following special characters: apostrophe ('), double quotation marks ("), and ampersand (&). If it contains any of these, the XML element must include an entity reference or CDATA construct so that these special characters are interpreted correctly. For example:

<val name="title"><![CDATA[MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING]]></val>

or

<val name="title">MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING</val>

See page 8 for more guidelines on entering journal titles.

<val name="issn">1234-5678</val>

Use this tag to specify the ISSN of a print or electronic journal (eISSN). Be sure to include the hyphen.

Response API for JCR Data

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://www.isinet.com/xrpc42"
src="app.id=LinksAMR,app.version=1.0.0,env.id=QAprimary">
  <fn name="LinksAMR.retrieve" rc="OK">
    <map>
<!-- RESPONSE for QUERY "cite_id" -->
      <map name="cite_id">
        <map name="JCR">
          <val name="impactGraphURL">URL_to_JCR_impact_graph</val>
        </map>
      </map>
<!-- RESPONSE for QUERY "cite_id2" -->
      <map name="cite_id2">
        <map name="JCR">
          ...
        </map>
      </map>
    </map>
  </fn>
</response>
```

Description of XML Elements

```
<response xmlns="http://www.isinet.com/xrpc42"
src="app.id=LinksAMR,app.version=1.0.0,env.id=QAprimary" >
```

Root for the response XML. The *src* attribute specifies information about the service instance used to satisfy the request.

```
<fn name="LinksAMR.retrieve" rc="OK">
```

Specifies the name of the LinksAMR API called. Supports a single attribute named *rc* that provides a return code. An value of "OK" indicates successful completion of the request.

```
<map>
```

All returned data are encapsulated in this map.

```
<map name="cite_id">
```

One per journal included in the request. The *name* attribute identifies the citation.

```
<map name="JCR">
```

Identifies *JCR* as the Web of Science source of requested data.

```
<val name="impactGraphURL"><![CDATA[http://links.qc.thomsonreuters.com/gateway/
Gateway.cgi?
GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyRecord=1040-2446&PointOfEntry
=Impact&DestApp=JCR&UsrCustomerID=9919084cf2cf55a9cc9fe2eb17a1b60b]]></val>
```

The URL to the JCR Impact Factor graph page for the requested journal.

Error Messages

No Result Found

If the service cannot find a match for the article you specify, you will receive the following message: **No Result Found**. Technically, this is not an error message.

Here is an example of a response to a request for which no matching data were found:

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://www.isinet.com/xrpc42" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve" rc="OK">
    <map>
      <map name="cite_1">
        <map name="WOS">
          <val name="message">No Result Found</val>
        </map>
      </map>
    </fn>
  </response>
```

Response Errors

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://edclinuxqa9.isinet.com:17010/esti/xrpc" src="app.id=API Demo">
  <fn name="LinksAMR.bogusname" rc="Server.methodNotFound">
    <error code="Server.methodNotFound">LinksAMR.methodname</error>
  </fn>
</response>
```

The error codes and strings for response level errors are:

Error Code(s)	Error String	Meaning
Server.methodNotFound	LinksAMR.methodname	Specific service requested is not valid or unrecognized
Server.invalidRequest	Could not parse request...	Request contains invalid XML. See error string for details.
Server.internalError	Internal Server Error	Service encountered an internal error.

Authentication Errors

Example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://edclinuxqa9.isinet.com:17010/esti/xrpc" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve" rc="Server.authentication">
    <error code="Server.authentication">No matches returned for Username</error>
  </fn>
</response>
```

The error codes and strings for response level errors are:

Error Code(s)	Error String	Meaning
---------------	--------------	---------

Server.authentication	No matches returned for Username	Username and/or password provided in request not recognized.
Server.authentication	No matches returned for IP Address	IP Address provided in request not recognized.
Server.authentication	Invalid Username	Password in request is not valid for username provided.
Server.authentication	No Portal entitlement found for IP Address	Username/password or IP not entitled for portal

Entitlement Errors

Example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://edclinuxqa9.isinet.com:17010/esti/xrpc" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve" rc="Server.authorization">
    <error code="Server.authorization">com.isinet.esti.AuthorizationException: Server.authorization -
    Not entitled
      for 'citingArticlesURL(CitingArtLinkAllowed)' in product 'WOS'.</error>
  </fn>
</response>
```

The error codes and strings for entitlement level errors are:

Error Code(s)	Error String	Meaning
Server.authorization	(no prefix) Not authorized for product: AMR	Your subscription does not entitle you to retrieve a requested data element or product. Consult your terms of service to verify which data elements you may request.
Server.authorization	(prefix) Not entitled for product 'WOS'	You have requested data from Web of Science but your service agreement does not authorize you to receive data from Web of Science.
Server.authorization	(prefix) Not entitled for product 'JCR'	You have requested data from Journal Citation Reports but your service agreement does not authorize you to receive data from Journal Citation Reports.
Server.authorization	(prefix) Illegal service 'NoSuchService' requested.	The correct name of the service is LinksAMR.retrieve. Check the attribute value in the <fn> element at the beginning of your request. It should match that shown in the sample request on page 16 or page 28.
Server.authorization	(prefix) Not entitled for 'doi(DOIAllowed), citingArticlesURL (CitingArtLinkAllowed), relatedRecordsURL (RelRecLinkAllowed)' in product 'WOS'	You are not entitled to retrieve the specified data elements. Check the terms of your service agreement to verify that you are entitled to receive the data you requested.
Server.authorization	Query 'cite_1' contains one or more non-AMRLite request fields. AMRLite request fields are 'ut, pmid, doi'	Your subscription entitles you to specify articles in a request by identifiers only. The service cannot process a request that includes only bibliographic data to identify citations.

Note: It is not an error if a requested citation falls outside of your product subscription. For example, no error is returned if you provide a citation to an article published in 1990 in the request, but your product subscription is limited to 2000-present. In this case, you will receive an empty response.

Citation Errors

Example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://edclinuxqa9.isinet.com:17010/esti/xrpc" src="app.id=API Demo">
  <fn name="LinksAMR.retrieve" rc="Server.invalidInput">
    <error code="Server.invalidInput">Query 'xxxx' is empty</error>
  </fn>
</response>
```

The error codes and strings for citation level errors are:

Error Code(s)	Error String	Meaning
Server.invalidInput	Query 'xxxx' is empty	An empty <map> element was encountered in the LOOKUP DATA section of the request.
Server.invalidInput	Citation entry missing name.	A <map> element is missing the 'name' attribute in the LOOKUP DATA section of the request.
Server.invalidInput	Number of cites specified in request exceeds max allowed 50.	The number of items specified in a single request cannot exceed 50. If you want data for more than 50 articles, you must submit multiple requests (see page 15).

JCR Error

Example:

```
<?xml version="1.0" encoding="UTF-8" ?>
<map>
  <map name="cite_1">
    <map name="JCR">
      <val name="error">Server.JournalCitation - JCR database error occurred.</val>
    </map>
  </map>
```

The error code and string for the JCR error are:

Error Code(s)	Error String	Meaning
Server.JournalCitation	JCR database error occurred.	A server-side JCR database error occurred. Contact the Global Customer Support Center for assistance (page 4).

Bandwidth Throttling

Links AMR limits the number of citations processed per period of time. A citation refers to a single query. A request API may contain up to 50 citations. This control is necessary to ensure consistent and reliable performance.

Throttling time periods may include per-second, per-minute, and per-hour dependent on account setting. Information on the throttling time period set for your particular account (as determined by Thomson Reuters) will be supplied as part of the confirmation letter sent upon entitlement of your Article Match Retrieve access.

All throttling messages begin with the text **Request denied by Throttle server**. Each message will also provide a reason for the denial.

If you continually receive throttling errors, contact the Global Customer Support Center (page 4).

Reason	Explanation	Your Action
Throttle server is not available.	The service is temporarily unavailable.	Wait a few minutes and then resubmit your request.
Internal Error	Web services could not process your request.	Check the syntax of your request and then submit it again.
limit of <number>requests per period has been exceeded for throttle MR-CitePerMin	The number of allowable citations submitted per time period is specified by the confirmation letter sent upon entitlement of this service. This message indicates that that limit has been reached. Note that in this message, the word <i>request</i> means individual citation query, not the API request for data.	Wait a minute and then resubmit the request.
limit of <number>requests per period has been exceeded for throttle MR-CitePerSec	The number of allowable citations submitted per time period is specified by the confirmation letter sent upon entitlement of this service. This message indicates that that limit has been reached. Note that in this message, the word <i>request</i> means individual citation query, not the API request for data.	Wait a second and then resubmit the request.
limit of <number>requests per period has been exceeded for throttle MR-CitePerHour	The number of allowable citations submitted per time period is specified by the confirmation letter sent upon entitlement of this service. This message indicates that that limit has been reached. Note that in this message, the word <i>request</i> means individual citation query, not the API request for data.	Wait an hour and then resubmit the request.