



Crossref



Strengthening the Scholarly Record: A Workshop on Crafting Metadata Records & DOIs with Crossref

Jennifer Kemp
Head of Business Development
@SaysJKemp

Crossref makes research outputs easy to find, cite, link, and assess.

We're a not-for-profit membership organization that exists to make scholarly communications better. We rally the community; tag and share metadata; run an open infrastructure; play with technology; and make tools and services—all to help put scholarly content in context.

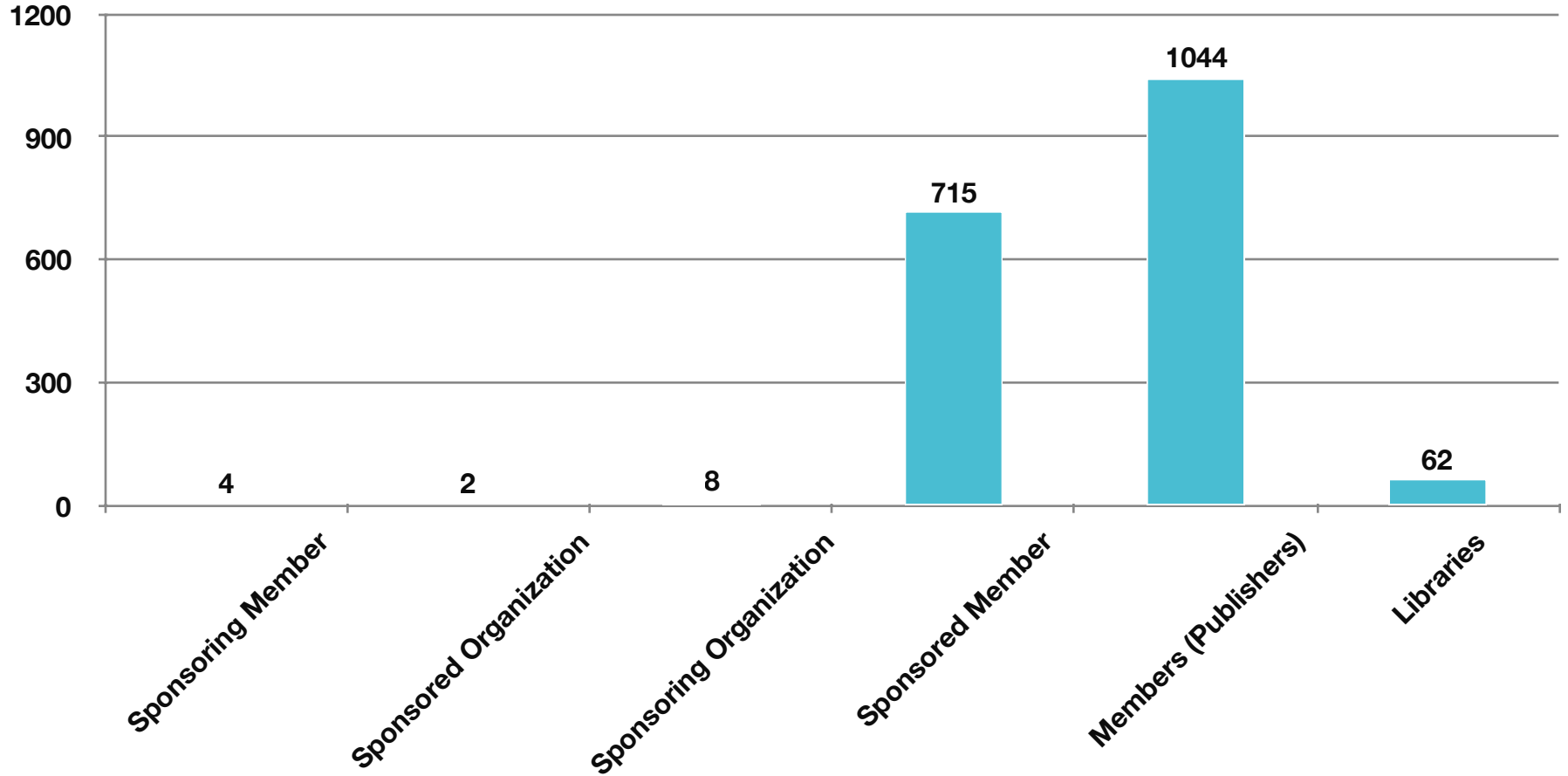
It's as simple—and as complicated—as that.



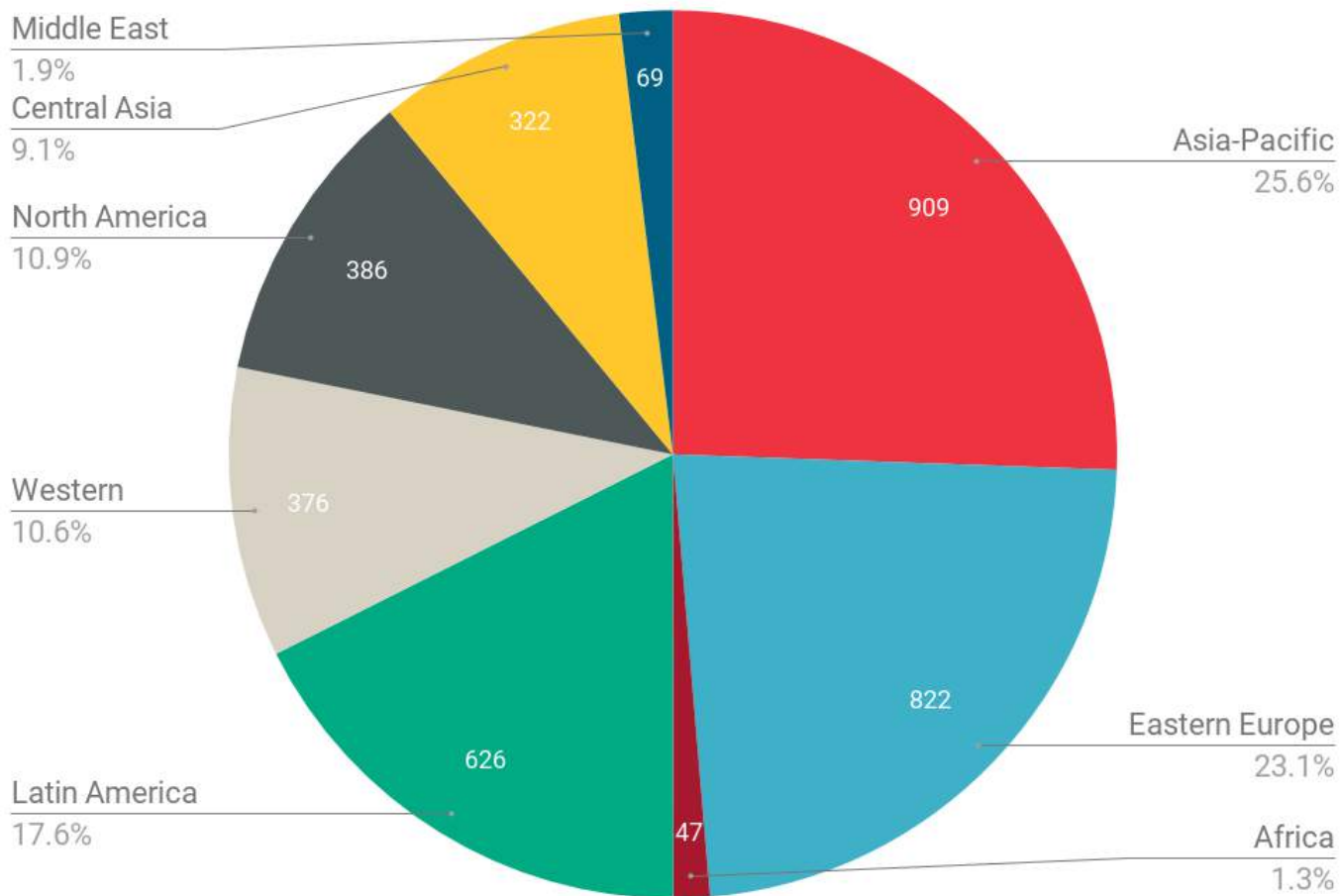
Why do publishers join Crossref?

- Content discoverability
- Show people where content is located including if/when the content moves
- Drive more traffic to publications
- Link references
- Participate in other collaborative services

New Members 2017



Number of new Crossref members per region joining between 1st Jan 2016 - 31st December 2017



96,721,336

Registered content records

66,894,185

Records with full-text links

10,400

Member organizations

2,785,753

Records with funding information

2,049,205

Records with a Funder Registry ID

30,786,067

Records with licenses

1,454,441

Records with ORCID iDs

6,845,791

Crossmark count

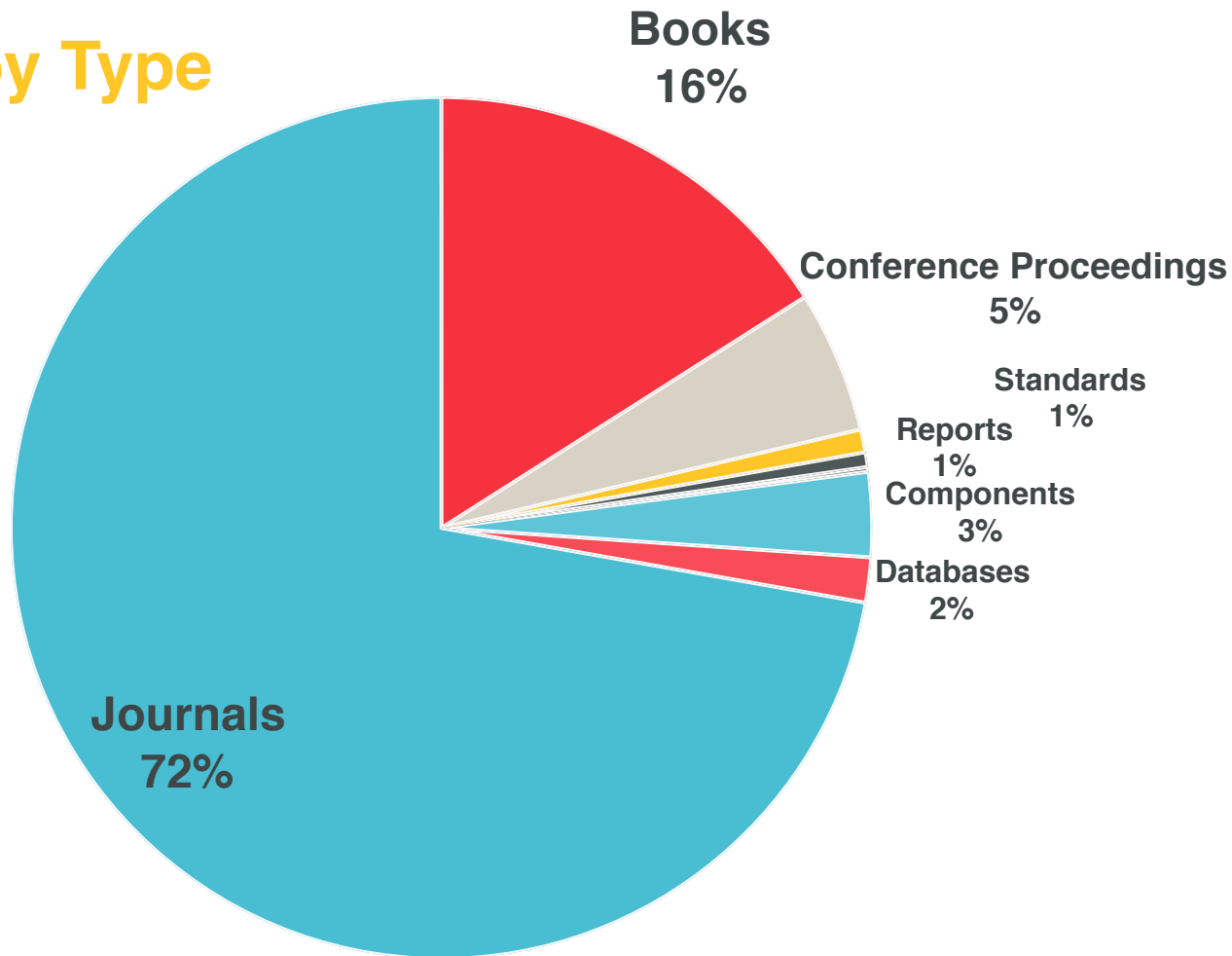
2,186

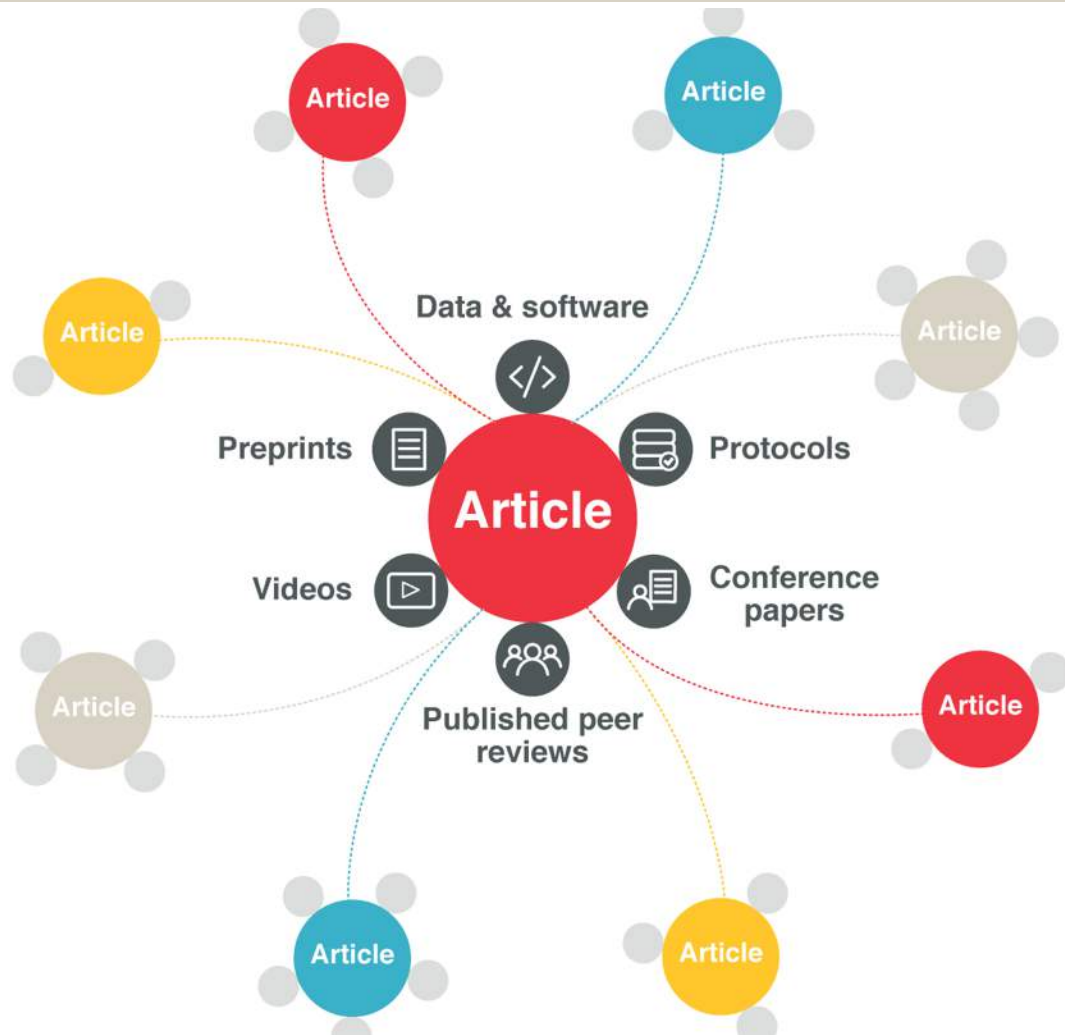
Registered retractions through Crossmark

81,675

Registered updates through Crossmark

Content by Type







New

Peer Review Reports

Reference Distribution Policy



Soon

Pending Publication

Event Data

Publisher Participation Reports

Metadata Manager Deposit Tool

**Also on
the way**

OrgIDs
Grant IDs

Metadata for (almost) any occasion

- Literature discovery
- Research integrity tracking
- Reproducibility
- Reporting to funders and institutions
- Funder policy compliance
- &tc...

Metadata for research integrity

- Updates (corrections, retraction, update, expressions of concern, etc.): [Crossmark](#)
- Peer review history, type, assets
- Funding data (COI)
- [ORCIDs](#) (authors, reviewers, editors, etc.)
- [Affiliation](#) (authors, reviewers, editors, etc.)
- [License data](#) (full text, abstract, etc.)

Metadata for discoverability

- ORCID, Funder ID & Award No.
- Abstracts
- References
- Links to data & software
- Links to preprints
- Links to conference papers and posters
- Links to research resource IDs (identifiers for assays, materials, etc.)
- Links to post-publication events (reviews, comments & discussions, bookmarks, shares, recommendations, etc.) Event Data
- Access indicators (publication license for text & data mining, machine mining URLs)

Metadata for reproducibility

- Updates (corrections, retraction, update, expressions of concern, etc.)
- **Funding data** (COI) & ORCID IDs (authors, reviewers, editors, etc.)
- **License data** (full text, abstract, etc.)
- Links to peer review assets
- Links to underlying data & software
- Links to protocols
- Links to versions
- Links to videos/audio and other supporting information
- Links to research resource IDs (identifiers for assays, materials, etc.)
- Links to clinical trial registry and trial number

Metadata for reporting and assessment

- ORCID, Funder ID, Grant ID & Award No.
- Abstracts
- References: Cited-by
- Peer review description & assets
- Links to data & software
- Links to preprints
- Links to conference papers and posters
- Links to research resource IDs (identifiers for assays, materials, etc.)
- Links to post-publication events (reviews, comments & discussions, bookmarks, shares, recommendations, references, media coverage)
- Access indicators (publication license for text & data mining, machine mining URLs)

Your metadata content reaches:

- Funders
- Institutions
- Archives & repositories
- Research councils
- Data centres
- Professional networks
- Patent offices
- Indexing services
- Publishing vendors
- Metrics providers
- Reference manager systems
- Lab & diagnostics suppliers
- Sharing platforms
- Data analytics systems
- Literature discovery services
- Educational tools
- PID providers, registration agencies

How good is your metadata?

Find a member



Search by member



Richer metadata makes content useful.
Make sure your work can be found.

[Learn more](#)



Support Center > Maintaining metadata > Displaying and using metadata



How

Articles in this section

Reference linking

Crossref Data & Software
Citation Deposit Guide for
Publishers

Passing parameters

Crossref Data & Software Citation Deposit Guide for Publishers

Data & software citation is good research practice and is part of the scholarly ecosystem supporting research validation and reproducibility. Data & software citation is also instrumental in enabling the reuse and verification of these research outputs, tracking their impact, and creating a scholarly structure that recognizes and rewards those involved in producing them.

Crossref supports the propagation of data & software citations alongside a publisher's standard bibliographic metadata. Publisher members deposit the data citation link as part of the overall publication metadata when registering their content. Crossref partners with DataCite and together, we jointly provide a clearinghouse for the citations collected. These are all made freely available to the community as open data, human and machine-readable.

Depositing data citations

<https://support.crossref.org>

Thank you

Jennifer Kemp

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@SaysJKemp



Strengthening the scholarly record:

A Workshop on Crafting
Metadata Records and DOIs
with Crossref



Shayn Smulyan
Product Support Associate
support@crossref.org
@CrossrefSupport

Who registers content with Crossref?

About you

We have 10,013 members from 114 countries. Many types of organizations interact with Crossref. You could be a research institution, a publisher, a government agency, a research funder, or a start-up. In order to become a member, register content and deposit metadata you'll need to meet one criterion:

You want to share research outputs through metadata and persistent identifiers and/or you represent organizations who do.

If you can commit to creating and maintaining a metadata record for your published content, in the long-term, then Crossref membership is for you.

What can you register? Content Types.

- Journals
- Books
- Conference Proceedings
- Dissertations
- Data Sets
- Reports
- Standards
- Preprints
- Peer Reviews

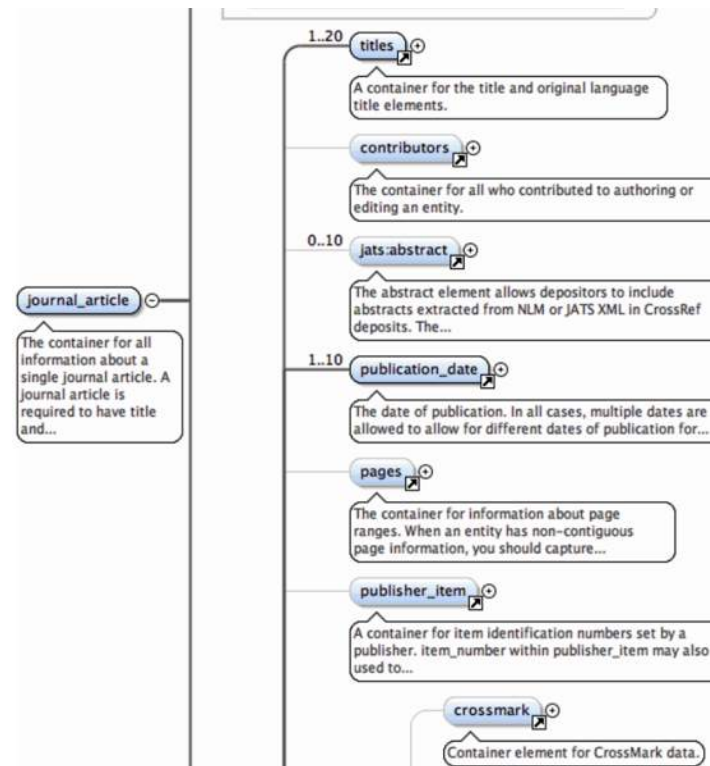
Status Page: Updated on Apr 29, 2018

MetaData Deposit

Total Records in Database	96,481,720
Total Prefixes	10,649
Number of Journals	58,645
Number of Books	1,269,875
Number of Conference Proceedings	58,855
Number of Journal DOIs	71,852,542
Number of Book DOIs	13,454,498
Number of Conference DOIs	5,252,705
Number of Components	3,204,641
Number of Standards Titles	338,742
Number of Standards DOIs	255,247
Number of Databases	12,770
Number of Database DOIs	1,670,337

Content Registration Overview

- Construct DOIs
- Prepare XML metadata
- Submit metadata to Crossref
- Confirm Success



Then What?

- Outbound Reference Linking
- Reports
- Updating/Maintaining DOIs
 - URLs
 - adding/correcting/editing metadata
- Title Transfers

What you need before you begin

- A DOI assigned to your content item
 - DOI = Prefix / Suffix
 - We assign you the prefix, you create the suffix
 - Allowed characters: a-z, 0-9, and - . _ ; () /
- A URL for that item's landing page which includes
 - Some means for users to access the full text content
 - The DOI displayed as a link: <https://doi.org/{DOI}>
 - A citation or basic bibliographic data displayed
- Metadata that describes the item you're registering

Demo: Content Registration

Pentz, Ed. Do Mug Fairies Exist? An experiment in self-cleaning crockery. (2014). Journal of Psychoceramics, 5(11).

10.5555/2014-04-01

[http://psychoceramics.labs.crossref.org/
10.5555-2014-04-01.html](http://psychoceramics.labs.crossref.org/10.5555-2014-04-01.html)

Do Mug Fairies Exist? Article Landing Page




Note, outdated DOI display format.

"dx" and "http"

Web Deposit Form - Select Content Type

Secure | <https://www.crossref.org/webDeposit/> 🔍 ☆ 🛠️ ⓘ

[← Back to the main Crossref website](#)

 Crossref

webDeposit

Ver. 1.40

These forms allow you to enter metadata and register DOIs. Review the [help documentation](#) for details.

Note: Your Crossref username and password will be required at the end of this process to submit data to the system. Please insure your browser allows JavaScript so that the data validation will function.

Step 1: Select Data Type

Data Type Selection

Select Data Type: ☒ Journal ☐ Book ☐ Conference Proceedings ☐ Report ☐ Dissertation ☐ CrossMark Policy page

☐ NLM File **BETA** ☐ Supplemental-Metadata Upload **BETA**

Journal- and Issue-level Metadata

Step 2: Identify the Journal

Journal information

Title

Abbr.

Journal DOI+

Journal URL

Print ISSN

Elect ISSN

Journal DOI and/or ISSN required

Volume

Issue

Issue DOI

Issue URL

Publication dates

note: use numerical values (YYYY, MM, DD)

Type: print

*Year Month: Day:

Type: online

*Year Month: Day:

* a minimum of one publication year is required

+ complete Title, Abbr., Journal DOI/URL and/or ISSN fields for title-level Journal deposit

Submit Journal/Issue DOI

Add Articles

Article Metadata

Article information

Title*

Original Title (for translated works only)

Contributors

Person	Role <input type="text" value="author"/>	First Name <input type="text" value="Ed"/>	Last Name <input type="text" value="Pentz"/>	ORCID <input type="text" value="https://orcid.org/0000"/>	<input type="button" value="Add Contributor"/>
Organization (optional)	<input type="text" value="author"/>	<input type="text"/>			<input type="button" value="Add Organization"/>

Publication dates

note: use numerical values (YYYY, MM, DD)

Type: print

*Year Month: Day:

Type: online

*Year Month: Day:

* a minimum of one publication year is required

DOI*


URL*

First page: Last page:

Enter credentials and submit

→ ↻ Secure <https://www.crossref.org/webDeposit/>

← [Back to the main Crossref website](#)

 Crossref

webDeposit Ver. 1.40

Your deposit is now ready to upload to the CrossRef system. Please enter your CrossRef username and password. Also provide a valid email address where the depo then select 'Deposit'.

Step 4: Input your user information

User information


Username Password:

e-mail

Confirmation Message

Secure | <https://www.crossref.org/webDeposit/>

[← Back to the main Crossref website](#)

 Crossref

httpResp status is HTTP/1.1 200 OK

SUCCESS

Your batch submission was successfully received.

webDeposit

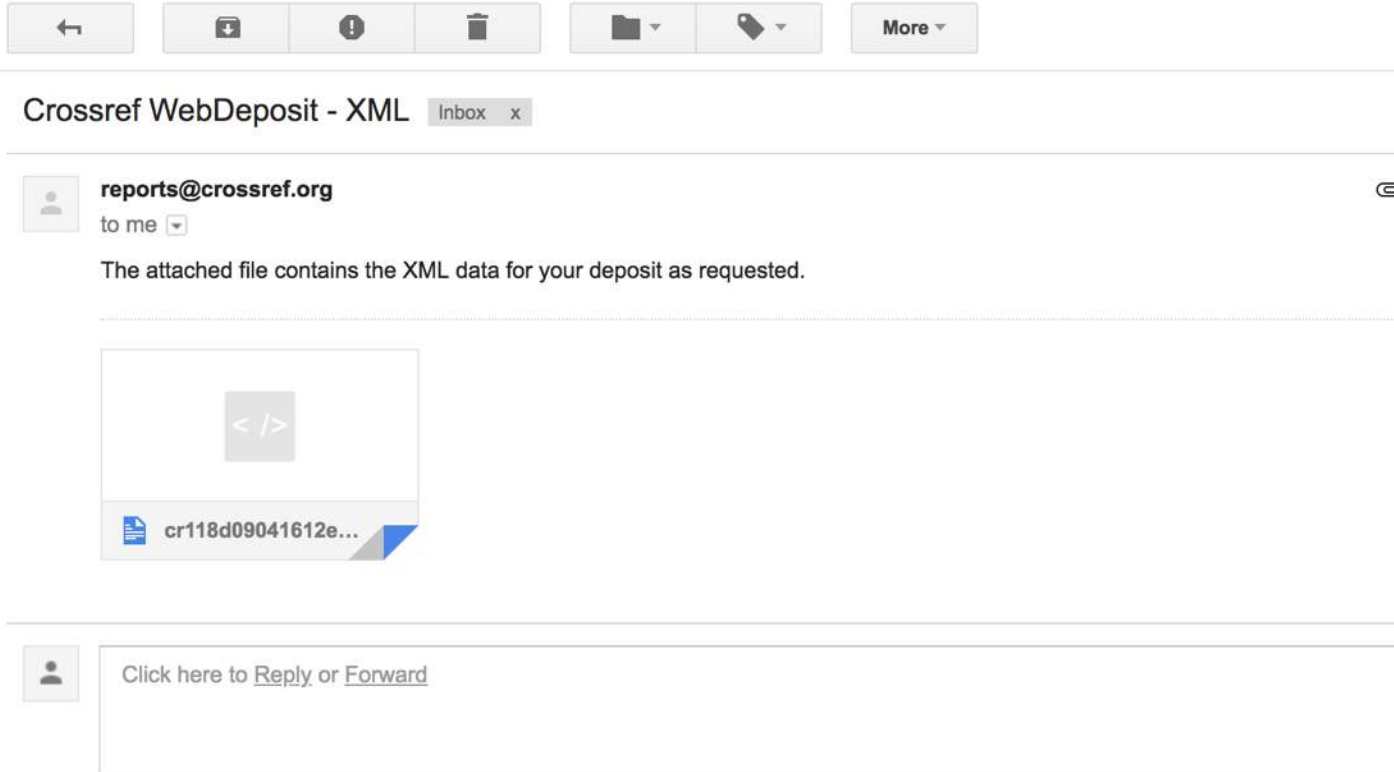
Ver. 1.40

Your deposit has been submitted to the system. The log results will be sent to you in an email

Your XML file is named: cr118d09041612e53cfe4-2d7b.xml

To return to the beginning and start another deposit, please press 'Restart'.

First email - contains deposited XML



Deposited XML File

```
~/Downloads/cr118d09041612e53cfe4-2d7b.xml (no function selected)
2 <doi_batch version="4.4.0" xmlns="http://www.crossref.org/schema/4.4.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.crossref.org/schema/4.4.0
  http://www.crossref.org/schema/deposit/crossref4.4.0.xsd">
3 <head>
4 <doi_batch_id>118d09041612e53cfe4-2d7b</doi_batch_id>
5 <timestamp>201805061715</timestamp>
6 <depositor>
7   <depositor_name>creftest</depositor_name>
8   <email_address>support@crossref.org</email_address>
9 </depositor>
10 <registrant>WEB-FORM</registrant>
11 </head>
12 <body>
13 <journal>
14 <journal_metadata> <full_title>Journal of Psychoceramics</full_title>
  <abbrev_title>JoP</abbrev_title> <issn media_type='print'>02643561</issn>
  </journal_metadata> <journal_issue> <publication_date media_type='print'>
  <month>04</month> <day>01</day> <year>2014</year> </publication_date>
  <journal_volume> <volume>5</volume> </journal_volume> <issue>11</issue>
  </journal_issue><!-- =====> <journal_article publication_type='full_text'>
  <titles> <title>Do Mug Fairies Exist? An experiment in self-cleaning crockery.</title>
  </titles> <contributors> <person_name sequence='first' contributor_role='author'>
  <given_name>Ed</given_name> <surname>Pentz</surname> </person_name> </contributors>
  <publication_date media_type='print'> <month>04</month> <day>01</day>
  <year>2014</year> </publication_date> <doi_data> <doi>10.5555/2014-04-01</doi>
  <resource>http://psychoceramics.labs.crossref.org/10.5555-2014-04-01.html</resource>
  </doi_data> </journal_article>
15 </journal>
16 </body>
17 </doi_batch>
```

If you need to edit or correct any metadata, you can resubmit this XML file with changes.

Be sure to update the `<timestamp>` element to a higher number.

Second email - Submission log



CrossRef submission ID: 1425492809

Support tickets/crossref query system x



CrossRef Query System <admin@crossref.org>

to me ▾

```
<?xml version="1.0" encoding="UTF-8"?>
<doi_batch_diagnostic status="completed" sp="ds3.crossref.org">
  <submission_id>1425492809</submission_id>
  <batch_id>118d09041612e53cfe4-2d7b</batch_id>
  <record_diagnostic status="Success">
    <doi>10.5555/2014-04-01</doi>
    <msg>Successfully updated</msg>
  </record_diagnostic>
  <batch_data>
    <record_count>1</record_count>
    <success_count>1</success_count>
    <warning_count>0</warning_count>
    <failure_count>0</failure_count>
  </batch_data>
</doi_batch_diagnostic>
```


Record count = Success count



Click here to [Reply](#) or [Forward](#)

Submission on our admin system

← → ↻ Secure <https://doi.crossref.org/servlet/submissionAdmin?sf=search> 🔍 ☆ 🛠 ⌚ +



Home Users **Submissions** Queries Reports Metadata Admin

Administration Upload Show System Queue System Control Fundref Registry Control Fun

Result size: 1

ID	Filename	Depositor	Area	DB	Type	Received	Started
1425492809	cr118d09041612e53cfe4-2d7b.xml	creftest	L	DS	XML metadata	06-May-18 17:15:06	2018-05-06 17:15:13.0

Legend: L: Live T: Test; 📄 =Link to content E=Has errors X=Has conflicts

Record on Metadata Search Interface



The screenshot displays the Crossref Metadata Search Interface. The browser address bar shows the URL <https://search.crossref.org/?q=10.5555%2F2014-04-01>. The Crossref logo is in the top left. A search bar contains the query **10.5555/2014-04-01**. To the right of the search bar are links for [Funding Data](#), [Link References](#), and [Stat](#). Below the search bar, the sorting options are **SORT BY: RELEVANCE** and [PUBLICATION YEAR](#). A yellow banner indicates **Showing DOI matching 10.5555/2014-04-01**. The search results list the following item:

- Do Mug Fairies Exist? An experiment in self-cleaning crockery.**
Example Item published 1 Apr 2014 in Journal of Psychoceramics volume 5 issue 11
<https://doi.org/10.5555/2014-04-01> [Actions](#)

On the left side, there is a filter sidebar with the following sections:

- TYPE**
 - ☐ Journal Article (1)
- YEAR**
 - ☐ 2014 (1)
- PUBLICATION**
 - ☐ Journal of Psychoceramics (1)
- CATEGORY**
- PUBLISHER**
 - ☐ CrossRef Test Account (1)
- FUNDER NAME**
- SOURCE**
 - ☐ Crossref (1)

Once registered, the item appears in our APIs and Metadata Search Interface

Demo: Simple Text Query

Simple Text Query

<https://doi.crossref.org/simpleTextQuery>

- Query DOIs for a reference list to comply with our outbound reference linking display requirement
- Deposit references into a DOI's metadata record

Demo: Simple Text Query cont'd

Example Reference list

1. Carberry, J. (2012). Deconstructing Write-Back Caches. *Journal of Psychoceramics*, 9(11), 1–3.
2. Surname, E., 2013. Why clean metadata is important. *Journal of CrossMark Testing*, 1(1), p.78.
3. Patel, V, Testing dataset deposit with fundref. *Test Database FundRef*.
4. Carberry, Josiah. “Developing Thin Clients Using Amphibious Epistemologies.” *Journal of Psychoceramics* 5, no. 11 (February 29, 2008): 1–3.
5. SirSurname, Emilio. “Why Very Very Clean Metadata Is Important.” *Journal of CrossMark Testing* 11, no. 1 (2012): 78.
6. Frede, D. (2010). Test article 20101004. *Journal of Test Deposits*, 34(1).
7. Patel, Vaishali. “Test Article Title Doi.” *Journal of Test Deposits* (2013).
8. Carberry, Josiah. “The Memory Bus Considered Harmful.” *Journal of Psychoceramics* 9.11 (2012): 1–3.

Query Services Account

Secure <https://www.crossref.org/requestaccount/>

← [Back to the main Crossref website](#)



Crossref Query Services Account Request Form

Crossref provides various web interfaces for key query services. Registered Crossref Members, Libraries and Affiliates may use the web interfaces with their previously supplied system account credentials. The Crossref Query Services interfaces are:

- [SimpleText Query](#)
- [OpenURL](#)
- [HTTP](#)

If you are not a Crossref member with account credentials, you may register for an account here. This account registration service is available at no charge to certain entities (please see the detailed terms and conditions below).

The purpose of requiring an account for using Crossref Query Services is simply to monitor usage to balance system demand and to identify problems.

If you have any questions please email support@crossref.org

To create an account, you will need to provide your email address. You will receive an email for verification and to activate your account.

Email:

Organization:

This agreement (the "Agreement") contains the terms and conditions applicable to the use of the Open URL, Linked Data and Guest Query Form services, offered by CrossRef to the public at no charge through the CrossRef web site (www.crossref.org) (collectively, the "CrossRef Free Services").

1. OWNERSHIP. CrossRef asserts no claims of ownership to individual items of bibliographic metadata and associated Digital Object Identifiers

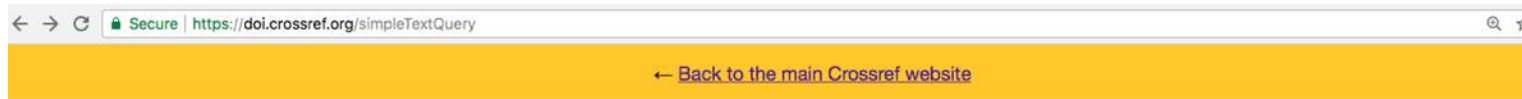
☐ I agree to the [Terms and Conditions](#)

☐ I'm not a robot



Submit

Copy-paste references and Submit STQ form



Get persistent links for your reference list or bibliography. Copy and paste the list, we'll match with our metadata and return the links. Please [register for citation matching](#), verify an email address, and agree to the terms. Members may also [deposit reference lists](#) here too.



Enter the email address you registered for use of Crossref services. If you have not registered your email address, [request an account](#).

Registered email:

Enter text in the box below:

1. Carberry, J. (2012). Deconstructing Write-Back Caches. Journal of Psychoceramics, 9(11), 1–3.
2. Surname, E., 2013. Why clean metadata is important. Journal of CrossMark Testing, 1(1), p.78.
3. Patel, V, Testing dataset deposit with fundref. Test Database FundRef.
4. Carberry, Josiah. "Developing Thin Clients Using Amphibious Epistemologies." Journal of Psychoceramics 5, no. 11 (February 29, 2008): 1–3.
5. SirSurname, Emilio. "Why Very Very Clean Metadata Is Important." Journal of CrossMark Testing 11, no. 1 (2012): 78.
6. Frede, D. (2010). Test article 20101004. Journal of Test Deposits, 34(1).
7. Patel, Vaishali. "Test Article Title Doi." Journal of Test Deposits (2013).
8. Carberry, Josiah. "The Memory Bus Considered Harmful." Journal of Psychoceramics 9.11 (2012): 1–3.

☐ Include PubMed IDs in results.

☐ List all possible DOIs per reference.

Submit

References display with DOIs beneath

Secure <https://doi.crossref.org/simpleTextQuery>

← Back to the main Crossref website



Get persistent links for your reference list or bibliography. Copy and paste the list, we'll match with our metadata and return the links. Please [register for citation matching](#), verify an email address, and agree to the terms. Members may also [deposit reference lists](#) here too.



1. Carberry, J. (2012). Deconstructing Write-Back Caches. Journal of Psychoceramics, 9(11), 1–3.
<https://doi.org/10.5555/777766665555>
2. Surname, E., 2013. Why clean metadata is important. Journal of CrossMark Testing, 1(1), p.78.
https://doi.org/10.5555/cm_test4
3. Patel, V. Testing dataset deposit with fundref. Test Database FundRef.
4. Carberry, Josiah. "Developing Thin Clients Using Amphibious Epistemologies." Journal of Psychoceramics 5, no. 11 (February 29, 2008): 1–3.
<https://doi.org/10.5555/12345679>
5. SirSurname, Emilio. "Why Very Very Clean Metadata Is Important." Journal of CrossMark Testing 11, no. 1 (2012): 78.
https://doi.org/10.5555/cm_test3153
6. Frede, D. (2010). Test article 20101004. Journal of Test Deposits, 34(1).
https://doi.org/10.5555/test_20101004100
7. Patel, Vaishali. "Test Article Title Doi." Journal of Test Deposits (2013).
8. Carberry, Josiah. "The Memory Bus Considered Harmful." Journal of Psychoceramics 9.11 (2012): 1–3.
<https://doi.org/10.5555/666655554444>

Do not use your browser's 'BACK' button.
Use the 'RESET' button to submit more references.


Reset

Deposit


This service allows up to 5,000 references per month. There are other services and interfaces for [high-volume citation queries](#).

Using Simple Text Query to deposit References

← Back to the main Crossref website

 Crossref

Get persistent links for your reference list or bibliography. Copy and paste the list, we'll match with our metadata and return the links. Please [register for citation matching](#), verify an email address, and agree to the terms. Members may also [deposit reference lists](#) here too.



1. Carberry, J. (2012). Deconstructing Write-Back Caches. Journal of Psychoceramics, 9(11), 1–3.
<https://doi.org/10.5555/777766665555>
2. Surname, E., 2013. Why clean metadata is important. Journal of CrossMark Testing, 1(1), p.78.
https://doi.org/10.5555/cm_test4
3. Patel, V. Testing dataset deposit with fundref. Test Database FundRef.
4. Carberry, Josiah. "Developing Thin Clients Using Amphibious Epistemologies." Journal of Psychoceramics 5, no. 11 (February 29, 2008): 1–3.
<https://doi.org/10.5555/12345679>
5. SirSurname, Emilio. "Why Very Very Clean Metadata Is Important." Journal of CrossMark Testing 11, no. 1 (2012): 78.
https://doi.org/10.5555/cm_test3153
6. Frede, D. (2010). Test article 20101004. Journal of Test Deposits, 34(1).
https://doi.org/10.5555/test_20101004100
7. Patel, Vaishali. "Test Article Title Doi." Journal of Test Deposits (2013).
8. Carberry, Josiah. "The Memory Bus Considered Harmful." Journal of Psychoceramics 9.11 (2012): 1–3.
<https://doi.org/10.5555/666655554444>

Email Address: Parent DOI:

Username: Password:

Do not use your browser's BACK button. Use the "RESET" button to submit more references.

Click "Deposit" to expand form

Reference Deposit Confirmation

Secure | <https://doi.crossref.org/simpleTextQuery>

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Get persistent links for your reference list or bibliography. Copy and paste the list, we'll match with our metadata and return the links. Please [register for citation matching](#), verify an email address, and agree to the terms. Members may also [deposit reference lists](#) here too.



Your Reference-Deposit file was accepted. Please watch for two emails from the system. One will contain your deposit file and the second will contain the system results log.

Do not use your browser's 'BACK' button.
Use the 'RESET' button to submit more references.

Reset

This service allows up to 5,000 references per month. There are other services and interfaces for [high-volume citation queries](#).

Please [contact us](#) if you have any questions.

Tips:

Email Confirmation and XML



Move to Inbox

▼

More ▼

25 of about 89

< >

▼

Your Cited-By Reference Deposit Inbox x



reports@crossref.org <reports@crossref.org>

📎 12/22/17 ☆



to me ▼

Please see the attached file for a copy of your Cited-By reference deposit.



Click here to [Reply](#) or [Forward](#)

XML Reference-only Deposit


```
cr-b759e061-7e7c-4526-bd06-f0d05de4c711.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <doi_batch version="4.3.0" xmlns="http://www.crossref.org/doi_resources_schema/4.3.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.crossref.org/doi_resources_schema/4.3.0
  http://www.crossref.org/schema/deposit/doi_resources4.3.0.xsd">
3 <head>
4 <doi_batch_id>b759e061-7e7c-4526-bd06-f0d05de4c711</doi_batch_id>
5 <depositor>
6 <name>creftest</name>
7 <email_address>support@crossref.org</email_address>
8 </depositor>
9 </head>
10 <body>
11 <doi_citations>
12 <doi>10.5555/2014-04-01</doi>
13 <citation_list><citation key="ref0"><journal_title>Journal of
  Psychoceramics</journal_title><author>Carberry</author><volume>9</volume><issue>11</issue>
  <first_page>1</first_page><cYear>2012</cYear><doi>10.5555/777766665555</doi><article_title>
  Deconstructing Write-Back Caches</article_title><unstructured_citation>1. Carberry, J.
  (2012). Deconstructing Write-Back Caches. Journal of Psychoceramics, 9(11),
  1-3.</unstructured_citation></citation><citation key="ref1"><journal_title>Journal of
  CrossMark
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We call this a “resource-only deposit”. Adds ancillary metadata to an already-registered DOI.

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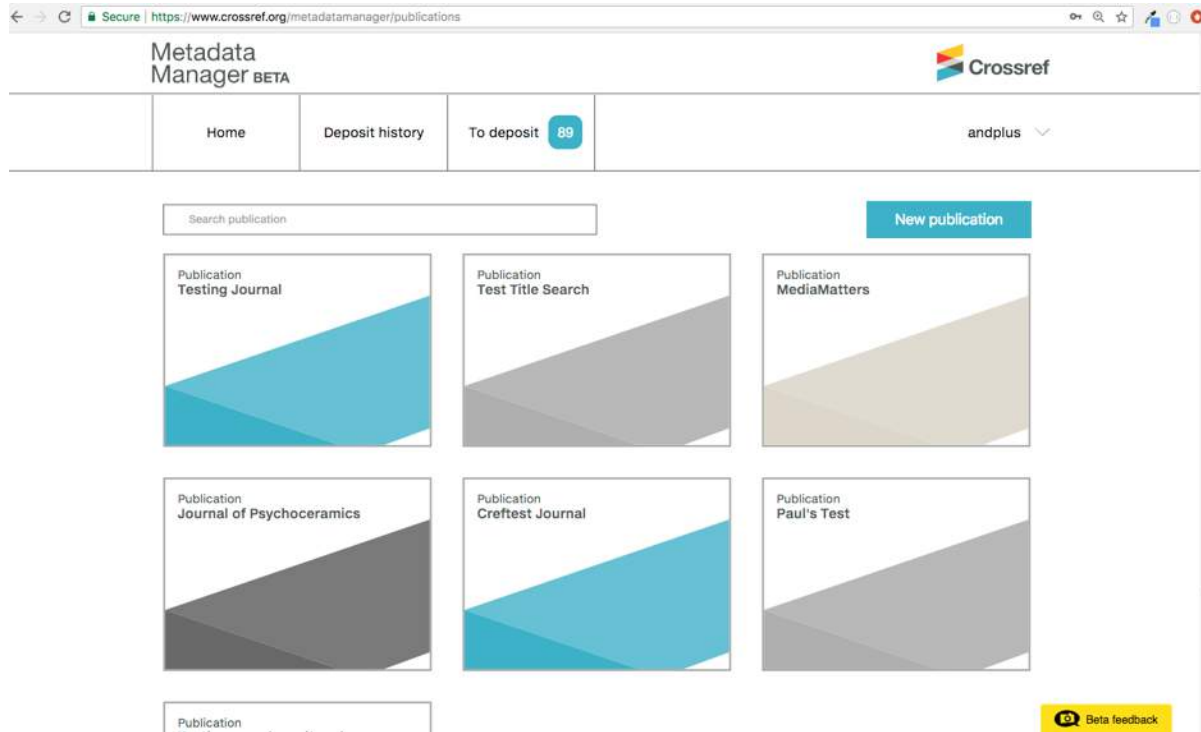
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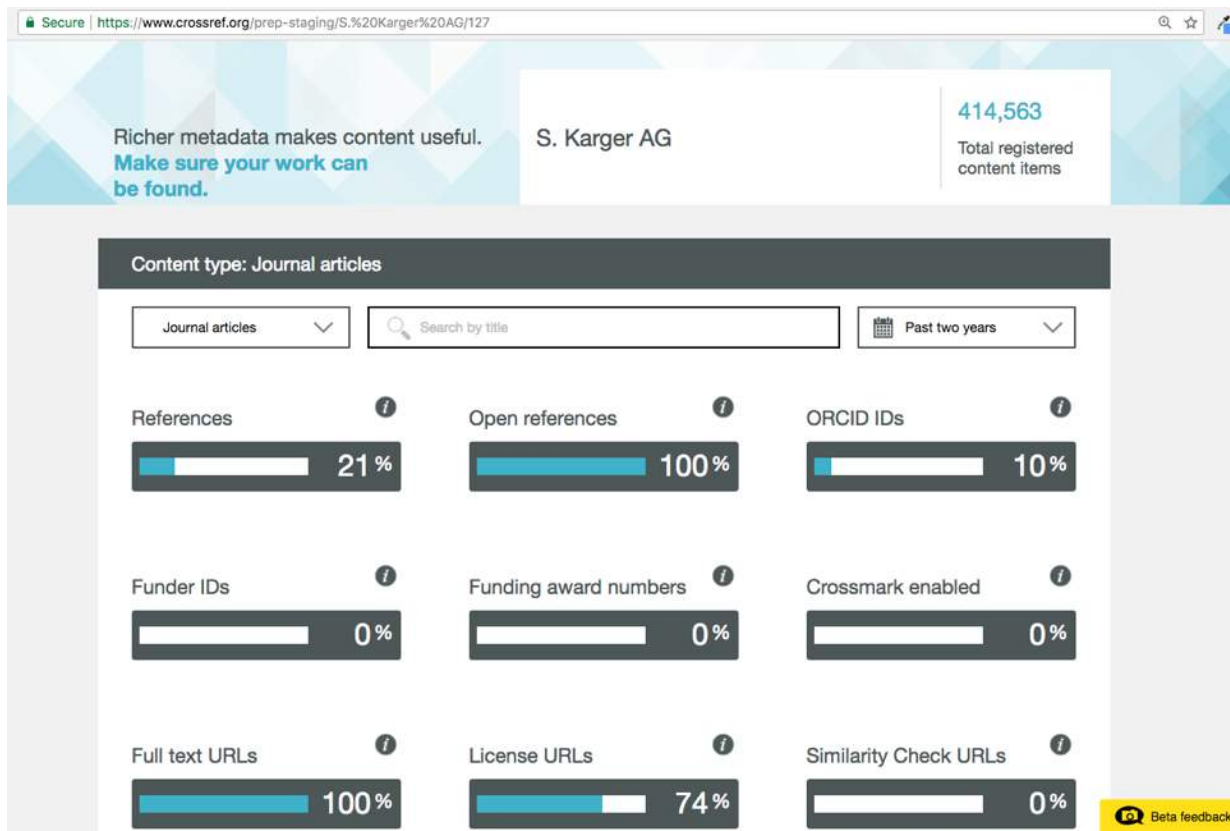
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