Crossref services for scholarly publishers and academic institutions

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This is what we’ll hope to cover today:

• Introducing Crossref (history, mission, members)
• Crossref services
• New developments
• FAQs & getting help
• Questions
Mission

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

We’re a not-for-profit membership organization that exists to make scholarly communications better.
Governance and Committees

• Advisory Groups and Committees

• 16 member board, cross section of international publishers

• One member, one vote, including members represented by a sponsoring organization - each of you has a vote

• Board elections each November
Who uses Crossref?

- Publishers
- Funders
- Institutions
- Archives & repositories
- Research councils
- Data centres
- Professional networks
- Patent offices
- Indexing services

- Publishing vendors
- Peer review systems
- Reference manager systems
- Lab & diagnostics suppliers
- Info management systems
- Educational tools
- Data analytics systems
- Literature discovery services
- Registration Agencies
Why do publishers join Crossref?

• To help get their content discovered
• Show people where their content is located and update that if/when the content moves
• Drive more traffic to publications
• Turn references into hyperlinks
• Find out who is using their content
• Participate in other collaborative services
Number of new Crossref members per region joining between 1st Jan 2016 - 31st December 2017

- **Asia-Pacific**: 909 (25.6%)
- **Eastern Europe**: 822 (23.1%)
- **Latin America**: 626 (17.6%)
- **North America**: 386 (10.9%)
- **Middle East**: 322 (9.1%)
- **Central Asia**: 69 (1.9%)
- **Western**: 376 (10.6%)
- **Africa**: 47 (1.3%)
Crossref in Ukraine

Crossref Member growth Ukraine

Graph showing the growth of Crossref members in Ukraine from 2006 to 2018.
• Journals
• Books
• Conference proceedings
• Standards
• Technical reports
• Working Papers
• Theses and dissertations
• Components (figures, tables)
• Datasets (supplementary data)
• Databases
• Posted content (includes preprints)
• Peer Reviews
Crossref overview

• Nearly 11,000 member organizations
• Metadata store of over **99 million** scholarly content items
• A DOI is just the start - We offer a wide array of services to ensure that scholarly research metadata is registered, linked, and distributed.
• We preserve the metadata we receive and make it available via our open APIs and search. That way everyone can use it!
metadata

everything, including…

author names, ORCIDs, affiliations, article titles, ISSN, ISBN, pages, issue #, volume #s, dates, identifiers
more metadata

such as …

reference lists, funding data, ORCIDs, license data, clinical trial numbers, errata, retractions, updates and more through our Crossmark service, JATS-formatted abstracts, relationships between items…
An ORCID iD is a unique identifier for an individual. It allows everyone (authors, publishers, funders, and research institutions) to identify the work that you do, and accurately attribute it.

Enter once, when you submit a paper, then watch as your ORCID record is automatically updated as your work is published, registered with Crossref, and enters the global citation network.

Who is it for?

- Authors: save time on manual data entry and easily keep your ORCID record up-to-date
- Publishers: help automate processes for your authors and enhance the discoverability of your content
- Funders, research administrators, librarians and anyone else interested in tracking research outputs.
CrossRef tools for small publishers
Science Editing
2015-08-14 | journal-article
DOI: 10.6087/kcse.48
Source: Crossref
Important to maintain your registered content

• It’s important to know how to work with the content you register with Crossref, so that readers can always find, and use the content you publish

• If it moves, let us know!
Important to deposit good quality metadata

https://search.crossref.org/
Tools to help
This plugin can be configured to automatically register Digital Object Identifiers (DOIs) with CrossRef. You will need a username and password (available from CrossRef) in order to do so. If you do not have your own username and password you can still export into the CrossRef XML format, but you cannot register your DOIs with CrossRef from within OJS.

Requirements

All plugin requirements are satisfied.

Settings

The following items are required for a successful CrossRef deposit.

**Depositor name** *  
Clement O. Adewunmi

**Depositor email** *  
test@example.com

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**Username**  
test

**Password**  
************

Please note that the password will be saved as plain text, i.e. not encrypted.

**Register DOIs automatically**  
✓  OJS will deposit article DOIs automatically to CrossRef as articles are published. Please note that this may take a short amount of time after publication to process. You can check for all unregistered DOIs in the unregistered articles listing.
Completing article & Add to Cart

After all relevant fields are complete the article can be moved to the Deposit Cart by clicking the Add to Cart button.

Underpinned by many years of experience in this field, Animal DNA Diagnostics is an enthusiastic laboratory with a mission to provide an excellent service to all our customers.

Please provide a Title that fully describes your Article.
Tools to help: Participation Reports
• https://www.crossref.org/participation/
• https://www.crossref.org/members/prep/
Crossref Services
Reference Linking

Publisher A references

Publisher B

Publisher C

User
• Members must add outbound Crossref DOI links to their references.
• Publishers used to make these agreements individually.
• Required only for current journal content but encouraged for all.
• Launched in 2006
• Counts and links to the publications that have cited an item of content
• Readers can navigate from one publisher’s content to other content that cites it.
Cow's milk protein allergy in children: a practical guide

A joint study group on cow's milk allergy was convened by the Emilia-Romagna Group for Paediatric Allergy and by the Emilia-Romagna Working Group for Paediatric Gastroenterology to focus best practice for diagnosis, management and follow-up of milk allergy in children and to offer a common approach for allergologists, gastroenterologists, general paediatricians and primary care physicians.
Crossref can see over 780,386,279 Cited-by links

Figuring out who has cited your content can be difficult; Cited-by provides a way to find these citations and display the results.
Reference distribution has been possible for a decade

• OAI-PMH
• OpenURL
• REST API

Distributing references via Crossref

Geoffrey Bilder – 2016 June 17
In Apis, Metadata, References

Known unknowns

If you follow this blog, you are going to notice a theme over the coming months- Crossref supports the deposit and distribution of a lot more kinds of metadata than people usually realise.

We are in the process of completely revamping our web site, help documentation, and marketing to better promote our metadata distribution capabilities, but in the mean time we think it would be useful highlight one of our most under-promoted functions- the ability to distribute references via Crossref.

One of the questions we most often get from members is- “can we distribute references via Crossref?” The answer is an emphatic yes. But to do so, you have to take an extra and hitherto obscure step to enable reference distribution.

How?

Many members deposit references to Crossref as part of their participation in Crossref's CitedBy service. However - for historical reasons too tedious to go into- participation in CitedBy does not automatically make references available via Crossref’s standard APIs. In order for publishers to distribute references along with standard bibliographic metadata, publishers need to either:
# Reference distribution policy

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed</td>
<td>These references are only used for Cited-by and are not distributed otherwise.</td>
</tr>
<tr>
<td>Limited</td>
<td>Organizations that sign an agreement for Metadata Plus can access these references.</td>
</tr>
<tr>
<td>Open</td>
<td>Everyone can access these references through all our public APIs.</td>
</tr>
</tbody>
</table>
Reference distribution

1. Ensure that you or your vendor is depositing references with Crossref for your journal(s)

2. Email support@crossref.org to set your distribution preference for each prefix

3. OR Set the reference_distribution_opt element to any for each item record
Funding Data

We collect and disseminate metadata that helps funders track the outputs of funded research. We also have an advisory group of funders that is helping us re-articulate and develop services for this audience.
Funding Data

Standardisation of funder names using the Funder Registry

+ Publisher deposit of funding metadata

= Large-scale analysis and reporting to funders

Search 18,664 funders connected to 2,328,859 published works with funding data
Our Similarity Check service offers publishers with a way to actively engage in efforts to prevent plagiarism.

Members are provided with access to Turnitin’s powerful text comparison tool, iThenticate. This allows them to compare their own documents against the largest comparison database of scientific, technical and medical content in the world.

Similarity Check members contribute their own published content into iThenticate’s database of full-text literature.
How it works

- Upload a document to iThenticate
- A similarity report is produced
- Compare side-by-side
- Editor makes a decision about whether the similarity detected is legitimate or if further investigation is required
- When members publish new content, they provide a link to their full-text which Turnitin use to index the item and add it into their database
What issues are publishers looking for

• Poor, missing, or incomplete references (can be fixed)
• Self-plagiarism/text recycling (can be fixed)
• Unattributed use of parts of another person’s work
• Submitting another person’s work as your own
• Is the author attempting to mislead/misrepresent?
New Developments
Event Data provides a unique record of the web activity related to individual scholarly content items.
The Crossref Event Data Pipeline
Use the data to...

**Funders** can use Event Data to isolate and track the dissemination and usage of the research they funded

Build a *reading recommendation tool* for researchers by using Event Data to analyse co-citations in Wikipedia

**Publishers** can undertake metric-lead analysis to help drive business needs

**Notify** an organization that their research is trending

**Researchers** can analyze data from blogs and social media to help with preprint discoverability and impact analysis

**Publishing service providers** can feed Event Data in their usage or altmetrics dashboards or visualisations
Product Support

• Help members register and maintain their metadata records
• Help everyone else discover and use metadata records
• 1/3 of all support tickets are related to metadata quality concerns
• FAQs: https://www.crossref.org/faqs/

https://support.crossref.org/
Thank you!

- Refer to our services pages
- View our blog with links to our short service videos
- View our webinar recordings