You are Crossref
Crossref Citations & Other Relations
Ginny Hendricks
Director of Member & Community Outreach
ginny@crossref.org
@ginnyLDN
@gin@scholar.social | @ginny@scicomm.xyz
About Crossref
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.
Rally: Getting the community working together to make scholarly communications better

Tag: Structuring, processing, and sharing metadata to reveal relationships between research outputs

Run: Operating a shared, open infrastructure that is community-governed and evolves with changing needs

Play: Engaging in debate and experimenting with technology to solve our members’ problems

Make: Creating tools and services to enable connections and give context
Our truths

Come one, come all
We define publishing broadly. If you communicate research and care about preserving the scholarly record, join us. We are a global community of members with content in all disciplines, in many formats, and with all kinds of business models.

One member, one vote
Help us set the agenda. It doesn’t matter how big or small you are, every member gets a single vote to create a board that represents all types of members.

Smart alone, brilliant together
Collaboration is at the core of everything we do. We involve the community through active working groups and committees. Our focus is on things that are best achieved by working together.

Love metadata, love technology
We do R&D to support and expand the shared infrastructure we run for the scholarly community. We create open tools and APIs to help enrich and exchange metadata with thousands of third parties, to drive discoverability of our members’ content.

What you see, what you get
Ask us anything. We’ll tell you what we know. Openness and transparency are principles that guide everything we do.

Here today, here tomorrow
We’re here for the long haul. Our obsession with persistence applies to all things—metadata, links, technology, and the organization. But “persistent” doesn’t mean “static”; as research communications continues to evolve, so do we.
Reference Linking & Cited-by
References


Publisher A references

Publisher B

Publisher C

Publisher A

User
• 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

Abstract

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 cow’s milk allergy in children and to offer a common approach for allergologists, gastroenterologists, general paediatricians and primary care physicians.
Metadata distribution
632,000,000

Metadata queries per month
(up 28% from previous year)
Reference distribution has been possible for a decade

- OAI-PMH
- OpenURL
- REST API
Reference distribution has been possible for a decade but then in 2017 two additional things happened…
“To approve the recommendations of the Membership & Fees Committee with respect to updating the [paid] metadata delivery offering:

- To have a single agreement that covers all metadata APIs/delivery routes
- To adopt a single (updated) fee structure, and
- To remove case-by-case opt-outs for metadata.”
## Revised reference distribution policy

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Closed</strong></td>
<td>These references are only used for Cited-by and are not distributed otherwise.</td>
</tr>
<tr>
<td><strong>Limited</strong></td>
<td>Organizations that sign an agreement for Metadata Plus can access these references.</td>
</tr>
<tr>
<td>(Default for older accounts)</td>
<td></td>
</tr>
<tr>
<td><strong>Open</strong></td>
<td>Everyone can access these references through all our public APIs.</td>
</tr>
<tr>
<td>(Default for accounts joining from 2018)</td>
<td></td>
</tr>
</tbody>
</table>
## New board election slate

<table>
<thead>
<tr>
<th>Member organization</th>
<th>Candidate standing</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>African Journals Online</td>
<td>Susan Murray</td>
<td>South Africa</td>
</tr>
<tr>
<td>American Psychological Association</td>
<td>Jasper Simons</td>
<td>USA</td>
</tr>
<tr>
<td>Association for Computing Machinery</td>
<td>Scott Delman</td>
<td>USA</td>
</tr>
<tr>
<td>California Digital Library</td>
<td>Catherine Mitchell</td>
<td>USA</td>
</tr>
<tr>
<td>Hindawi</td>
<td>Paul Peters</td>
<td>UK</td>
</tr>
<tr>
<td>SAGE</td>
<td>Richard Fidczuk</td>
<td>USA</td>
</tr>
<tr>
<td>Wiley</td>
<td>Duncan Campbell</td>
<td>USA</td>
</tr>
</tbody>
</table>

crossref.org/board-and-governance
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
This table shows a list of our members that have set (some of) their references to Open. A new reference distribution policy, effective January 1st, 2018 was adopted by the board in 2017. Crossref members can choose to set their references to ‘Open’, ‘Limited’, or ‘Closed’, per prefix. Here is the list of the members with Closed references.

Using this report

- If you do not see a publisher on this list, then their references are not Open. Check the ‘Limited’.
- Not all members deposit references with the rest of their metadata—around one third do in any given year (members). The table below lists all members with the Open setting, they do not necessarily deposit references until the headings to sort.
- Some members have more than one prefix, and some may be Open but other prefixes not. This means that for a specific content type that doesn’t have references e.g. datasets or components.
- This table updates with every build of this website, so it may be a couple of days out of date at the moment.
- ‘Backfiles’ are anything older than two years. ‘Current’ is the last two years, rolling.

Total rows 2325

<table>
<thead>
<tr>
<th>Member Name &amp; ID</th>
<th>Sponsored member &amp; prefix</th>
<th>Reference Visibility</th>
<th>Total Backfile DOIs</th>
<th>Total Current DOIs</th>
<th>Total Deposits Backfile References</th>
<th>Total Deposits Current References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springer Nature America, Inc (ID 297)</td>
<td>Genomic Standards Consortium</td>
<td>open</td>
<td>10482971</td>
<td>1565551</td>
<td>false</td>
<td>false</td>
</tr>
<tr>
<td>Island Press</td>
<td>10.56822</td>
<td>open</td>
<td>10</td>
<td>1</td>
<td>false</td>
<td>false</td>
</tr>
</tbody>
</table>

This table shows a list of our members that have set (some of) their references to Closed. A new reference distribution policy was adopted by the board in 2017 and came into effect on January 1st, 2018. Crossref members can choose to set their references to ‘Open’, ‘Limited’, or ‘Closed’, per prefix.

Using this report

- If you do not see a publisher on this list, then their references are not ‘Closed’. Check the ‘Open’ list and if not there either, they are ‘Limited’.
- Not all members deposit references with the rest of their metadata—around one third do in any given year (members). The table below lists all members with the Closed setting, they do not necessarily deposit any references. Click the headings to sort.
- Some members have more than one prefix, and some may be Closed but other prefixes not. This could be because a prefix is used for a specific content type that doesn’t generally have references e.g. datasets or components.
- This table updates with every build of this website, so it may be a couple of days out of date. Check the date at the bottom of this page.
- ‘Backfiles’ are anything older than two years. ‘Current’ is the last two years, rolling.

Total rows 31

<table>
<thead>
<tr>
<th>Member Name &amp; ID</th>
<th>Sponsored member &amp; prefix</th>
<th>Reference Visibility</th>
<th>Total Backfile DOIs</th>
<th>Total Current DOIs</th>
<th>Total Deposits Backfile References</th>
<th>Total Deposits Current References</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Chemical Society (ACS) (10.316)</td>
<td>American Chemical Society</td>
<td>open</td>
<td>1364810</td>
<td>142604</td>
<td>true</td>
<td>true</td>
</tr>
<tr>
<td>American Chemical Society</td>
<td>10.26434</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Chemical Society</td>
<td>10.1921</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Other relations
addendum
clarification
correction
corrigendum
erratum
expression_of_concern
new_edition
new_version
partial_retraction
removal
retraction
withdrawal
<table>
<thead>
<tr>
<th>Data source</th>
<th>Event type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambia Lens</td>
<td>Citations in Patents</td>
</tr>
<tr>
<td>Crossref Metadata</td>
<td>Links to DataCite registered content</td>
</tr>
<tr>
<td>DataCite Metadata</td>
<td>Links to Crossref registered content</td>
</tr>
<tr>
<td>Hypothes.is</td>
<td>Annotations in Hypothes.is</td>
</tr>
<tr>
<td>Newsfeed</td>
<td>Discussed in blogs and media</td>
</tr>
<tr>
<td>Reddit</td>
<td>Discussed on Reddit</td>
</tr>
<tr>
<td>Reddit Links</td>
<td>Discussed on sites linked to in subreddits</td>
</tr>
<tr>
<td>Stack Exchange Network</td>
<td>Discussed on StackExchange sites</td>
</tr>
<tr>
<td>Twitter</td>
<td>Mentions in tweets</td>
</tr>
<tr>
<td>Wikipedia</td>
<td>References on Wikipedia pages</td>
</tr>
<tr>
<td>Wordpress.com</td>
<td>Discussed on Wordpress.com sites</td>
</tr>
</tbody>
</table>
http://api.eventdata.crossref.org/v1/events?
mailto=ginny@crossref.org&rows=0&source=newsfeed&facet=subj-id.domain: 15
http://api.eventdata.crossref.org/v1/events?
mailto=ginny@crossref.org&rows=0
&source=newsfeed
&subj-id.domain=www.theguardian.com
&facet=obj-id.prefix:*
Neuromuscular coordination deficit persists 12 months after ACL reconstruction but can be modulated by 6 weeks.

[Link to original tweet](http://twitter.com/muscletechnetwo/statuses/832555216788660225)
What’s next?
Strategic activities

- Simplify and enrich services
- Expand our constituencies
- Improve our metadata
- Collaborate and partner
**Improve our metadata**

**Recently completed**
- Participation reports phase 1
- Improvements to OJS integration
- Metadata Manager (Beta)
- New membership terms to emphasize metadata maintenance (effective 2019)

**Ongoing**
- Metadata ‘Health checks’ walk-throughs
- Research Organizations Registry (ROR)
- Pilot grant IDs
- Data citations outreach
- Expand Event Data deposit capabilities
- Service Provider relationship-building
- Metadata Manager phase 2
- Public statistics dashboard

**Scheduled**
- Emerging/small publisher education strategy
- Overhaul Service Providers program
- Crossmark relaunch
- Metadata Quality Framework
- New content types, incl. conferences, grants, blogs, patents, web resources, and videos
- Standard Crossref DOI widget
- New relationship taxonomy
- Public feedback channel for metadata issues
- Metadata Principles and Best Practice defined
- Participation reports phase 2

**R&D**
- Automating metadata extraction, preflight checking
- Enhanced reference matching
- Metadata profiling
Improving Crossref citation data

• Help small publishers: OJS plugin improvements; metadata manager deposit tool (Beta)

• Education and awareness for medium and larger ones: Metadata 2020; participation reports; evidence of increased discoverability
What else would you like to see?

You are Crossref
Thanks

Ginny Hendricks
Director of Member & Community Outreach
ginny@crossref.org
@ginnyLDN
@gin@scholar.social  |  @ginny@scicomm.xyz