Revelations about relations in connecting research: content types, data and identifiers

Rachael Lammey
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Crossref

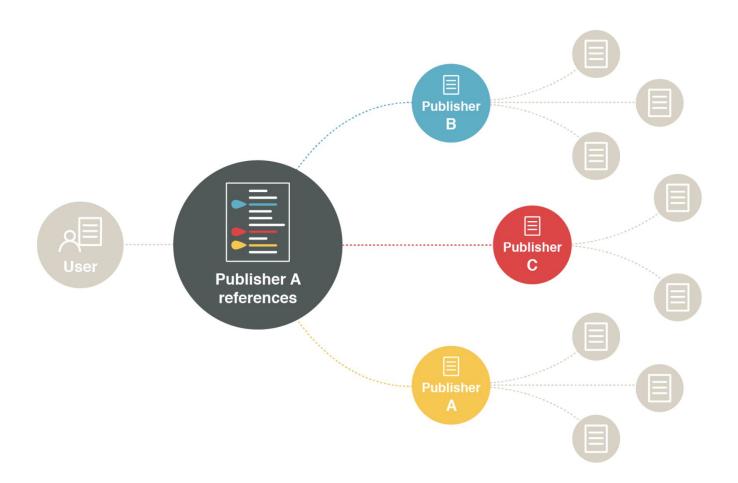
https://orcid.org/0000-0001-5800-1434





- Over 12,000 member organizations
- 16 member board, cross section of international publishers
- Metadata store of over 113 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 interfaces.

# DOIs and metadata for research outputs





## Gives us scope to support things like:

#### Helping researchers identify content they can text mine



Geoffrey Bilder - 2020 April 16 In Metadata, Community, APIS

#### TL:DR

Many organizations are doing what they can to aid in the response to the COVID-19 pandemic. for researchers to identify, locate, and access content for text mining. In order to do this, mem metadata that:

- . Point to the full text of the content.
- · Indicate that the content is available under an open access license or that it is being made

https://www.crossref.org/blog/helping-researc hers-identify-content-they-can-text-mine/

**I40C** About

#### About

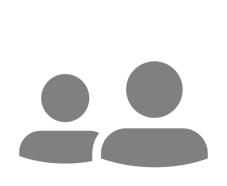
Citations are the links that knit together our scientific and cultural knowledge. They are primary data that provide both provenance and an explanation for how we know facts. They allow us to attribute and credit scientific contributions, and they enable the evaluation of research and its impacts. In sum, citations are the most important vehicle for the discovery, dissemination, and evaluation of all scholarly knowledge.

As the number of scholarly publications is estimated to double every nine years, citations – and the computational systems that track them – enable researchers and the public to keep abreast of significant developments in any given field. For this to be possible, it is essential to have unrestricted access to bibliographic and citation data in machine-readable form.

The present scholarly communication system inadequately exposes the knowledge networks that already exist within our literature. Citation data are not usually freely available to access, they are often subject to inconsistent, hard-to-parse licenses, and they are usually not machine-readable.

https://i4oc.org/

# + other individual identifiers





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## + connections =





② 3 minute read.

## Crossref to Auto-Update ORCID Records



Ginny Hendricks - 2015 September 24
In Member Briefing, Metadata, News Release, News Release, ORCID

In the next few weeks, authors with an ORCID iD will be able to have Crossref automatically push info work to their ORCID record. It's something that ORCID users have been asking for and we're pleased integration. 230 publishers already include ORCID iDs in their metadata deposits with us, and current include ORCID iDs.

What this means for researchers

(iD)

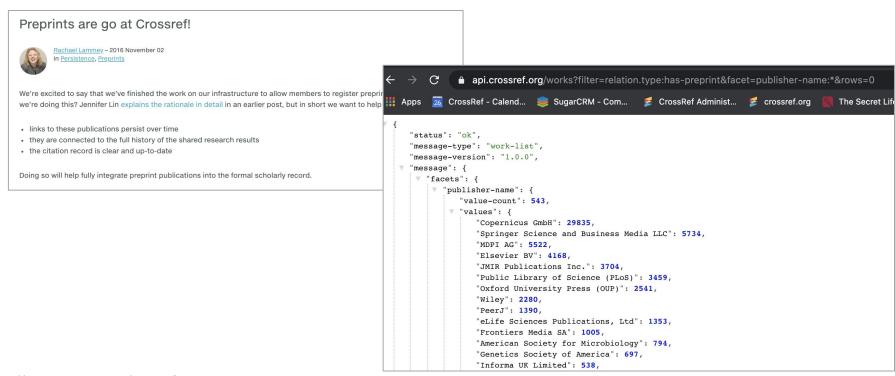
More visibility for your work! Crossref represents over 5000 scholarly publishers an

ORCID Totals					
Statistic	October 2018	2018	April 2020	2020	% change 2018-2020
Total orcid/article pairs	3,059,399		6,627,744		117%
Total unique orcids	1,281,355		2,336,447		82%
Total works pushed	1,343,663		3,407,291		154%
Authors granting	502,822	39%	1,053,870	45%	110%
Authors denying	408,273	32%	563,967	24%	38%
Authors not responding	381,084	29%	732,011	31%	92%

their ORCID iD and include it in the publication information they send us. Also it will mean less manual searching and adding, you ve

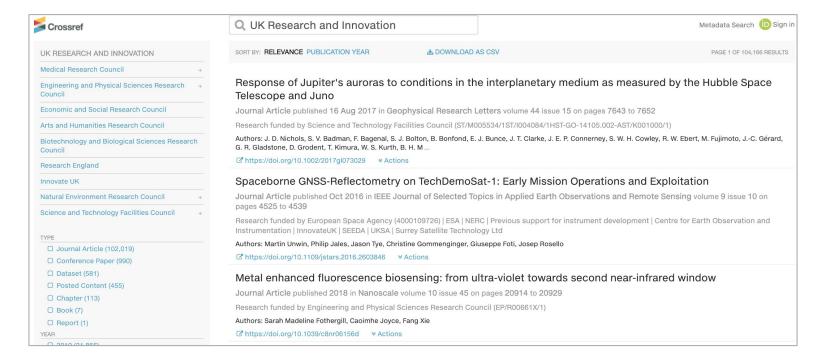


## We can see things like this:



https://api.crossref.org/works?filter=relation.type:has-preprint&facet=publisher-name:\*&rows=0







#### DataCite Blog

Datacite Citation Display: Unlocking Data Citations

January 7, 2020 by Kristian Garza • 7 min read

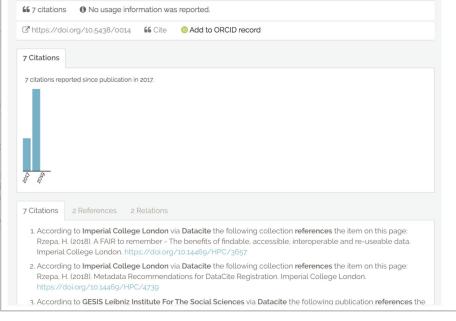
https://doi.org/10.5438/1843-k679

Are published datasets actually being cited? It's a question that must cross the mind of any avide this blog at least once. We have talked about data citation plenty on this blog. Often, though, we the links between academic resources and datasets — the kind of links collected by our Event Many of these links between articles and datasets can be regarded as data citations, but not all

Until today, it wasn't straightforward to visualize these links without having some programming today, that changes. Today we introduce the Citations Display in DataCite Search. Here you will access all these links and distinguish between data citations, references, and other relations the between academic resources with DOIs. In this blog post, we try to answer the questions you n about DataCite & data citation.

## Where does DataCite get information about the links between article datasets?4

There are two ways in which we get this information:DataCite members provide information able tween their datasets and other academic resources. They do this by including related identif dataset DOI metadata they deposit with us. You can see the workflow in Figure 1Through our owith Crossref, we also have information about dataset DOIs included in published articles. Like members, Crossref members include this information in the metadata they deposit with Crossref.



https://blog.datacite.org/data-citation-display/



## Gives scope to do things like this



Home > Blog > Free Public Data File of 112+ Million Crossref Records

(1) 2 minute read.

#### Free Public Data File of 112+ Million Crossref Records



Jennifer Kemp - 2020 April 09 In Metadata, Community, APIS

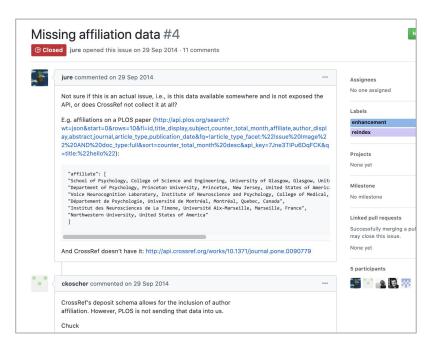
A lot of people have been using our public, open APIs to collect data that might be related to COVID-19. This is great and we encourage it. We also want to make it easier. To that end we have made a free data file of the public elements from Crossref's 112.5 million metadata records.

The file (65GB, in JSON format) is available via Academic Torrents here: https://doi.org/10.13003/83B2GP

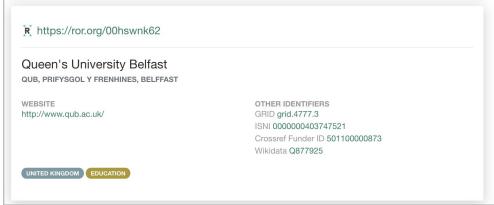
It is important to note that Crossref metadata is always openly available. The difference here is that we've done the time-saving work of putting all of the records registered through March 2020 into one file for download.



## But there's still work to do



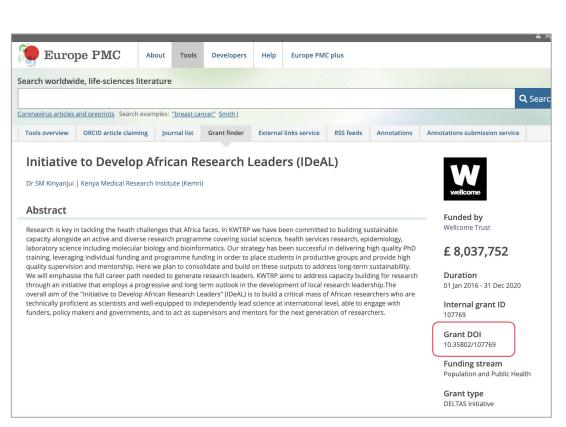






"While most funders state that the majority of their reporting requests are fulfilled, much of the information reported is provided late or of low quality and requires time-consuming cleanup."



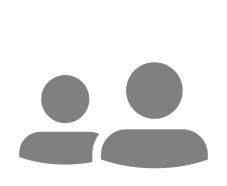




## The next platform

- 1. **Preprints** are available for immediate review and consumption by all (we know that in many disciplines peer review doesn't materially change the output so this is a must and it shaves years off publication times).
- 2. Post-publication **peer review reports** give reviewers credit.
- 3. Approved outputs can be **indexed in bibliographic databases** and made just as discoverable as journal-based outputs.
- 4. All outputs can be made available under a **CC-BY licence** and in accordance with all the necessary technical requirements for truly findable, accessible, interoperable and reproducible research.
- 5. Links to datasets and other open research outputs can be added.
- 6. UKRI gets to trace, cradle-to-grave, the **impacts of their funded research** as it's all published in one place.
- 7. Publishing on the platform doesn't depend on the wealth of the organisation and the size of their Gold OA Fund.
- 8. It reduces researcher anxiety about 'getting stuff published'. If it's funded by UKRI it is welcome on the platform.
- 9. Quality is assessed through peer review reports, and impact through **subsequent usage (citations if that floats your boat)**, and not by journal brand.

https://wonkhe.com/blogs/the-purpose-of-publications-in-a-pandemic-and-beyond/





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Thank you! Questions?

<u>rlammey@crossref.org</u> <u>https://crossref.org</u>