

Infrastructure dedicated to the publication of open bibliographic and citation data

**FACTSHEET FOR RESOURCE MANAGERS, RESEARCHERS AND RESEARCH ORGANIZATIONS**

### What is OpenCitations?

Is an independent not-for-profit infrastructure organization for open scholarship dedicated to the publication of open bibliographic and citation data by the use of Semantic Web technologies.

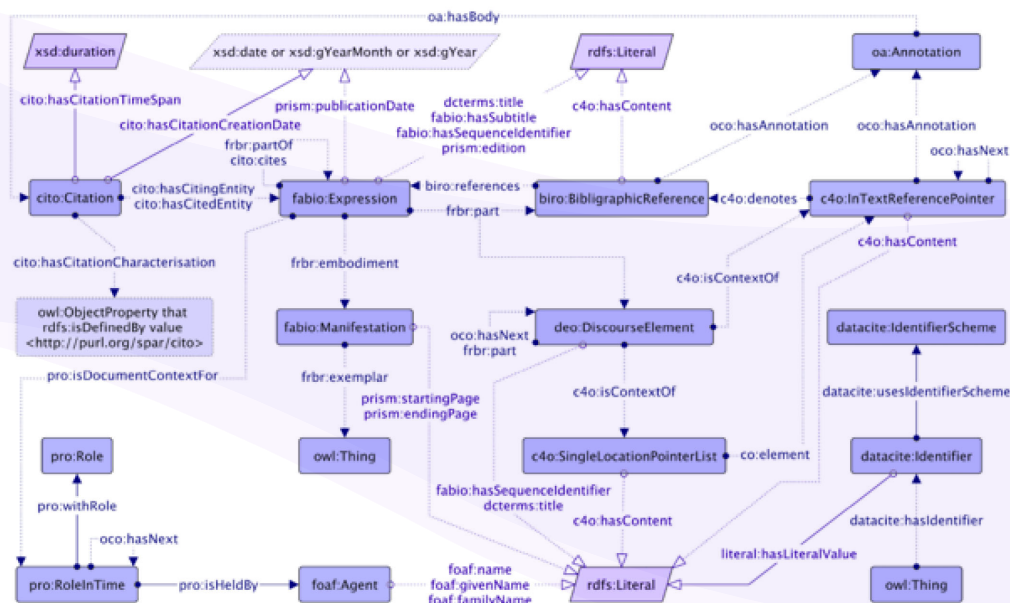
### OpenCitations

Provides more than one billion citations data that can be reused for any purpose and can be accessed via SPARQL endpoints, REST APIs, and that can be downloaded in bulk.

### OpenCitations enables:

- a) Fairness since it avoids institutions and independent scholars having to pay tens of thousands of dollars annually (that most of them cannot afford!) for commercial access to their own scholarly data;
- b) Reuse, since there are no license restrictions and all data, are provided under CC0, so users can re-publish and reuse for any purpose the citation data that OpenCitations provides;
- c) Research assessment, since we provide open data usable for national and international research evaluation exercises, enabling one to make such activities transparent and reproducible;
- d) Governance since the community is directly involved in the evolution of the infrastructure.

### How it works the OpenCitations Data Model?



### Basically...



- **Used to describe** more than one billion citations data that can be reused for any purpose and can be accessed via SPARQL endpoints, REST APIs, and that can be downloaded in bulk
- **Is based on RDF and OWL** to foster reusability of data through open formats
- **Uses the "language" of the Semantic web**, in particular is based on OpenCitations' SPAR Ontologies
- **Is already reused by external parties** to model their bibliographic metadata and citation data

## OpenCitations:

- **Provides** (without charge under open licences) open metadata with a scope, depth, accuracy and provenance, as a disruptive alternative to traditional proprietary citation indexes;
- **Supports** stakeholder communities of libraries (authors, researchers, students, institutional administrators) to monitor research;
- **Enables** reproducibility in bibliometrics research;
- **Tracks** the scholarly productivity and influence of members of academic community;
- **Exploits** free availability of citation data to build new applications and visualizations;
- **Guarantees** easy access to the citation data through different points of access, depending on the particular need.

Among others, **Citation Gecko**, **CiteCorp**, **DBLP**, **OpenAccess Helper**, **VOSviewer** and **Zotero** are now using our metadata

## Main features of the services

### Automations & Global Openness

Runs automations and provides citation provenance information globally

### Programmatic access

Exposes citation data through REST API and SPARQL

### Standards, Principles & FAIR compliance

Supports various standards formats for sharing data & FAIR, UNESCO, POSI, I4OC principles

### Transparency & History

Supports full data dump of open citations and is open source

### Seamless integrations

Is integrated with OpenAIRE infrastructure & EOSC

### User friendly

Provides visual interfaces for direct exploration of citation data (search interfaces)

## What's next

### 1. Enhance OpenCitations partnerships and dialogue with scholarly community. We seek involvement from the community:

- To participate in the shared governance of OpenCitations
- To improve our software and services
- For the provision, annotation, curation and correction of OpenCitations data
- To work with us to broaden the scope of scholarly metadata that is openly available, beyond citations and abstracts

### 2. Develop new services and expand the citation coverage:

- OpenCitations Meta, a new database to hold comprehensive bibliographic metadata in house, speeding request responses by avoiding external API calls to Crossref, ORCID, etc., and by permitting us to create citation indexes over works lacking DOIs Citation coverage expansion.

### 3. New citation indexes


- We plan to start working on two new citation indexes, based on the holdings of DataCite (DOCI) and on the NIH Open Citations Collection (NOCI), which, together with COCI, will be cross-searchable through our unified OpenCitations API.

## About OpenAIRE

[www.openaire.eu](http://www.openaire.eu)

Shifting scholarly communication towards openness and transparency and facilitate innovative ways to communicate and monitor research.

For more information, please contact: [info@openaire.eu](mailto:info@openaire.eu)

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## Useful Links

OpenCitations Website <https://opencitations.net>

OpenCitations blog <https://opencitations.wordpress.com/>

COCI Tutorial <https://youtu.be/4EHwxFMefU>

OpenCitations coding material <https://github.com/opencitations>

OpenCitations datasets <https://opencitations.net/datasets>

OpenCitations querying documentation <https://opencitations.net/querying>

SPAR Ontologies <http://www.sparontologies.net/>