

How Open Infrastructures Benefit Libraries

Silvio Peroni: University of Bologna / OpenCitations

Niels Stern: OAPEN/DOAB

James MacGregor: Public Knowledge Project

Open Access Tage 2021 - 27 September 2021

Structure of the workshop

Session 1 (5 mins): structure of the workshop and introduction

Session 2 (45 mins): presentation of the four open infrastructures

- OpenCitations
- OAPEN / DOAB
- Public Knowledge Project

Session 3 (30 mins): audience discussing two questions in two breakout rooms:

1. What would prevent or encourage libraries in the German speaking region to support open infrastructures?
2. Community governance: what kind of involvement would they like to see, how would they want to be involved?

Session 4 (10 mins): back in the main room, wrap-up and conclusions

Values of Open Infrastructures

Fairness: avoid that institutions and independent scholars having to pay tens of thousands of euros annually (that most of them cannot afford!) for relevant services and software, e.g. commercial access to their own scholarly data and publications

Reuse: licenses to foster maximum discoverability and reuse, so users can re-publish and use, for any purpose, data, software, and publications that Open Infrastructures provide

Transparency: providing open and freely available knowledge of relevance for the scholarly ecosystem (e.g. for dissemination activities and within research evaluation exercises) to foster transparent and reproducible processes

Governance: crucial to involve the stakeholder community in the governance of the Open Infrastructures, to build more confidence that the organisation will take decisions driven by community consensus and consideration of different interests

OpenCitations

A SHORT INTRODUCTION

Silvio Peroni

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RESEARCH CENTRE
FOR OPEN SCHOLARLY METADATA



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DEPARTMENT OF CLASSICAL PHILOLOGY
AND ITALIAN STUDIES



OpenCitations: basic information

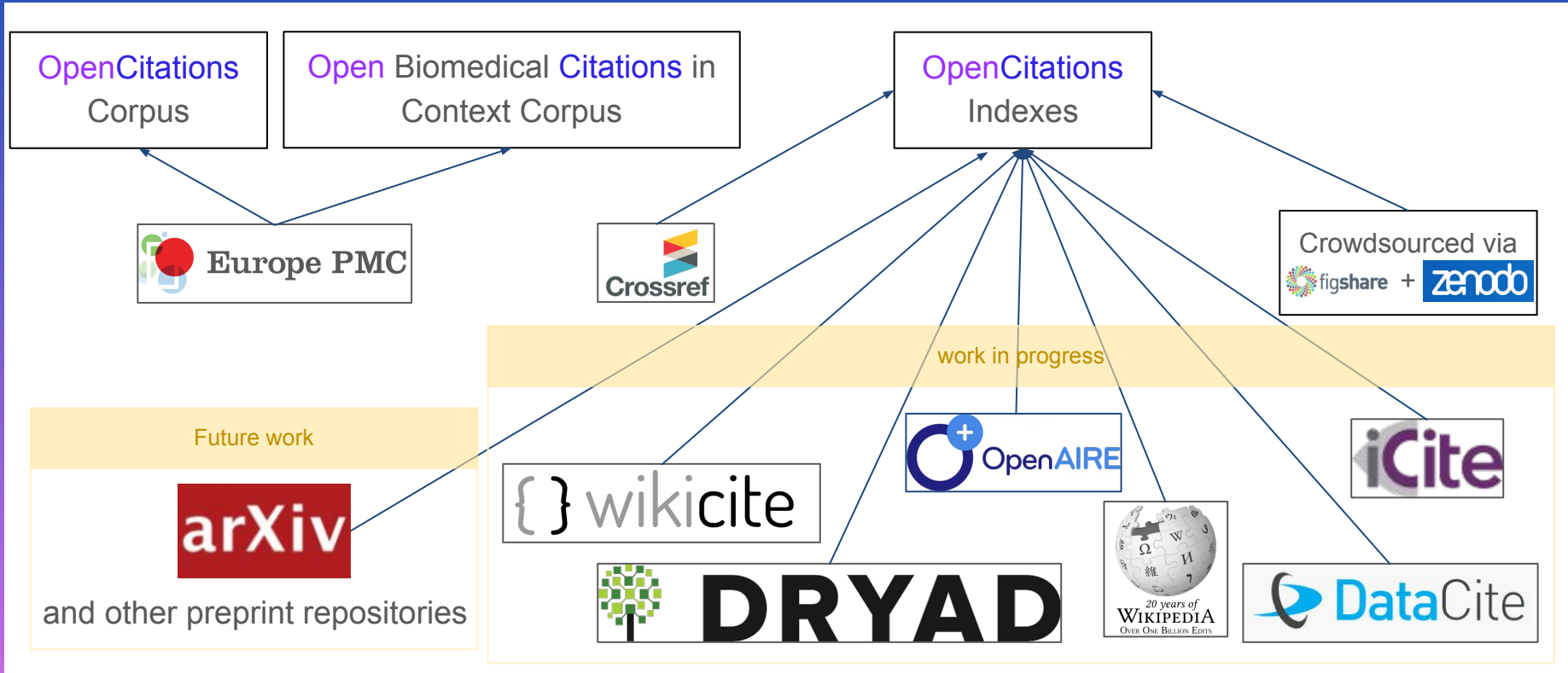
OpenCitations (<http://opencitations.net>) is an independent not-for-profit infrastructure organization

- dedicated to open scholarship and the **publication of open bibliographic and citation data** by the use of Semantic Web (Linked Open Data) technologies
- engaged in advocacy for open citations and open bibliographic metadata, as a founding member of both the Initiative for Open Citations (I4OC) and the Initiative for Open Abstracts (I4OA)

It provides:

- a data model: the OpenCitations Data Model (based on the SPAR Ontologies)
- bibliographic and citation databases (CC0): OpenCitations Corpus, OpenCitations Indexes, Open Biomedical Citations in Context Corpus
- software: in our GitHub repository, released with open source licenses
- online services: REST APIs, SPARQL endpoints, dumps, and search and query interfaces

Sources of data of current datasets



Citations as first-class data entities

Citations are normally treated simply as the links between published entities



Alternative richer view is to regard a citation as a data entity in its own right



Using OpenCitations data

We provide data containing more than **1.18 billion citations** that the community can use for **any purpose**

Such data can be crucial as a vehicle for use in national and international research evaluation exercises to make such activities more **transparent and reproducible** as compared to other proprietary services

As a librarian, you can use our citation data (e.g. via our REST API) to **enhance or develop tools** to support your authors, researchers, students, institutional administrators, for instance by providing **metrics to monitor research** at your institution and by **improving the discoverability** of research products such as publications and data

Examples of use

The availability of the citation data via dumps and REST APIs has fostered new applications, from the description of references and citations of a given article in metadata libraries to the visualisation of networks of publications

In 2021, we have had more than 15,200,000 accesses to the REST API

Full dumps have been downloaded more than 180,000 so far

<https://inciteful.xyz/>

Inciteful Documentation Paper title, DOI, PubMed ID, arXiv ID, or Microsoft A

Inciteful

OpenCitations, an infrastructure organization for open scholarship

Silvio Peroni | David M. Shotton

OpenCitations is an infrastructure organization for open scholarship dedicated to the publication of open citation data as Linked Open Data using Semantic Web technologies, thereby providing a disruptive alternative to traditional proprietary citation indexes. Open citation data are valuable for bibliometric analysis, increasing the reproducibility of large-scale analyses by enabling publication of the source data. Following brief introductions to the development and benefits of open scholarship and to Semantic Web technologies, this paper describes... [more](#)

16 Cited By 12 Citing 2020 Published Yes Open Access 8,183 Papers in Graph 29,947 Citations in Graph 2 Graph D

Open Access Helper

OpenCitations, an infrastructure organization for open scholarship

Silvio Peroni and David Shotton

Posted Online January 23, 2020
https://doi.org/10.1162/qss_a_00023

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Article https://doi.org/10.1162/qss_a_00023 visualised with the Open Access Helper plugin (<https://www.oahelper.org/>)



<https://dblp.uni-trier.de/rec/conf/semweb/PeroniS18.html>

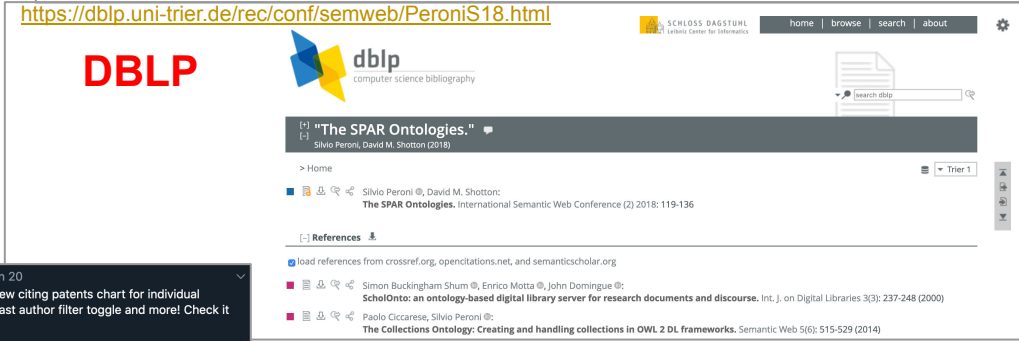
DBLP

computer science bibliography

"The SPAR Ontologies." Silvio Peroni, David M. Shotton (2018)

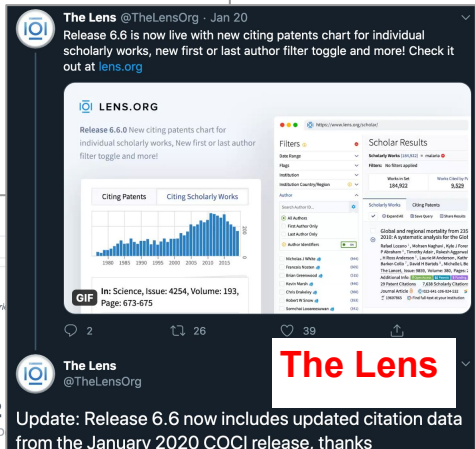
> Home

- Simon Buckingham Shum @, Enrico Motta @, John Domingue @: The SPAR Ontologies. International Semantic Web Conference (2) 2018: 119-136
- Paolo Ciccarese, Silvio Peroni @: The Collections Ontology: Creating and handling collections in OWL 2 DL frameworks. Semantic Web (6): 515-529 (2014)



The Lens @TheLensOrg - Jan 20

Release 6.6 is now live with new citing patents chart for individual scholarly works, new first or last author filter toggle and more! Check it out at lens.org

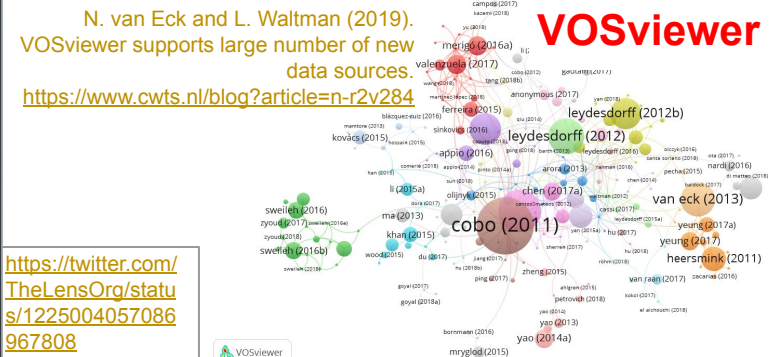


The Lens

Update: Release 6.6 now includes updated citation data from the January 2020 COCI release, thanks

VOSviewer

N. van Eck and L. Waltman (2019). VOSviewer supports large number of new data sources. <https://www.cwts.nl/blog?article=n-r2v284>



<https://twitter.com/TheLensOrg/status/1225004057086967808>

Supporting Open Science Infrastructures



The Principles of Open Scholarly Infrastructure

Governance



Improve stakeholder involvement in governance and plan for winding-down

Sustainability



Not enough incomes to generate surplus and contingency fund to support 12 month operations

Insurance



Nothing to declare :-)

DIRECTORY OF OPEN ACCESS BOOKS
OPEN ACCESS PUBLISHING FOR EUROPEAN NETWORKS
PUBLIC KNOWLEDGE PROJECT
OPENCITATIONS

SCOSS LAUNCHES SECOND FUNDING CYCLE

Read about these essential services, their funding goals and how your institution can help support them at www.scoss.org.



Two ways to help

Ask your institution to [apply for membership](#) and thus support us financially

- Supporting membership (€500 - €8,000 per year)
Rights include: voting on the OpenCitations Council and to [elect candidates](#) to serve on the International Advisory Board for OpenCitations
- Development membership (€8,000 - €30,000 per year)
Rights include: Supporting membership rights + [one free registration](#) for next edition of WOOC (hopefully held in Bologna next year) and [writing blog post](#) about your use of OpenCitations services and data on our blog
- Strategic membership (more than €30,000 per year)
Rights include: Development membership rights + [a seat](#) on the International Advisory Board for OpenCitations

Otherwise, ask your institution to fund us via [a donation](#)

More info at <http://opencitations.net/membership>

Involvement as a member

The OpenCitations **Council** comprises one delegate appointed by each member, elects new members of the International Advisory Board and to offer advice on

- the membership benefits and on the levels of contribution for each of the membership levels
- the long term strategy of OpenCitations, including providing feedback on changes proposed by the Board
- the biannual reports of the activities of OpenCitations prepared by the Directors
- other matters at the request of the International Advisory Boards

The **International Advisory Board** for OpenCitations has the purpose to guide the future developments of OpenCitations in terms of its policies, strategies and activities, to build the OpenCitations collaborations, membership and support community, and to ensure its financial sustainability

Other paths of collaboration

Help in developing our open source software and services

Curatorial involvement to improve OpenCitations data – we will work on a graphical tool to facilitate this (medium-term plan)

Collaborations with other like-minded infrastructures to develop federated access to open scholarly information of all types, thereby returning control over such information to the academic community that generated it in the first place



Thanks for your attention

Mission of the OAPEN Foundation

- to increase the discoverability of open access books
- to build trust around open access books

OAPEN Foundation is a non-profit foundation based on community funding

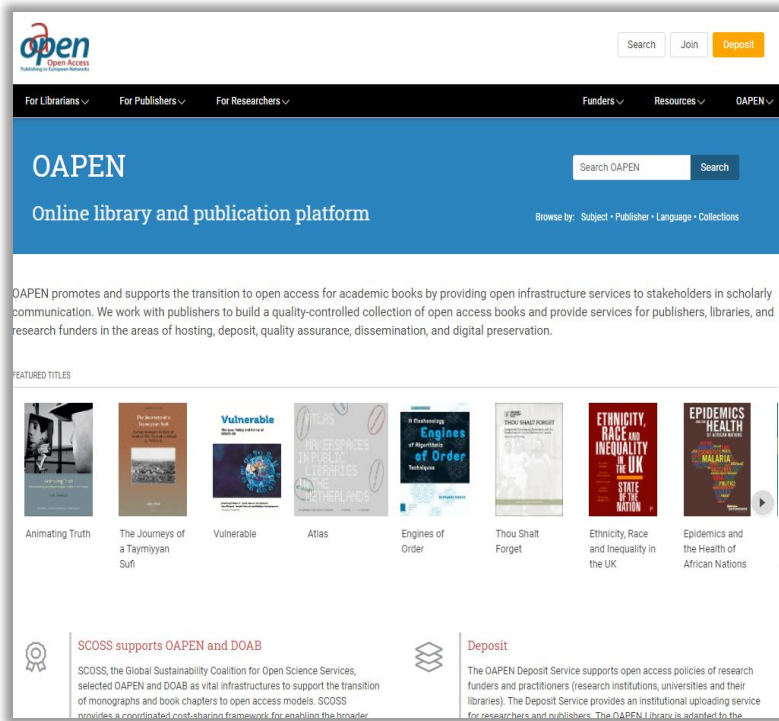


Three open source platforms enabling open access to books

Directory of Open Access Books – basic indexing service

OAPEN Library – premium services for libraries, publishers, and funders

OAPEN OA Books Toolkit – public information resource for authors



Easy integration with library catalogues

- ✓ Metadata feeds in MARCXML, CSV, RIS, ONIX XML
- ✓ OAI-PMH Harvesting
- ✓ REST API
- ✓ RSS and Atom feeds

OAPEN Library

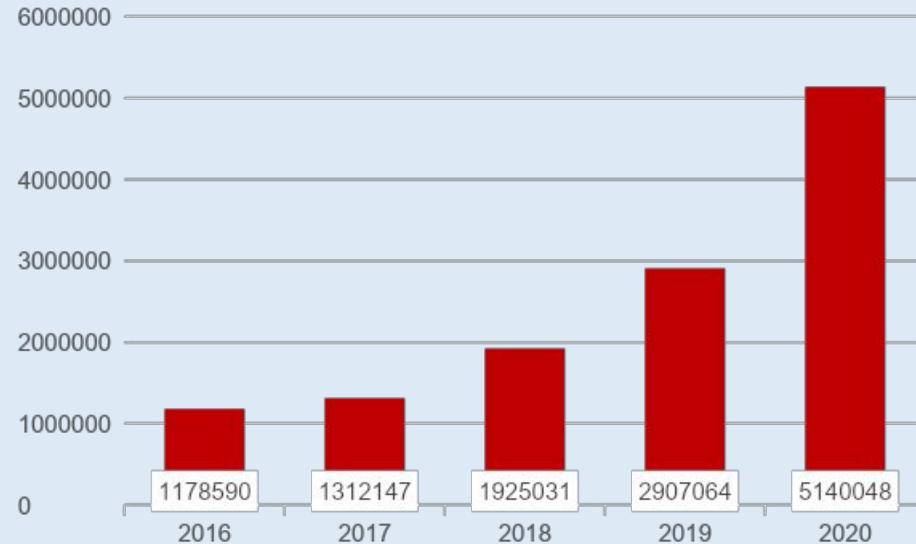
Launched in 2010

Repository of 17,000+ open access books

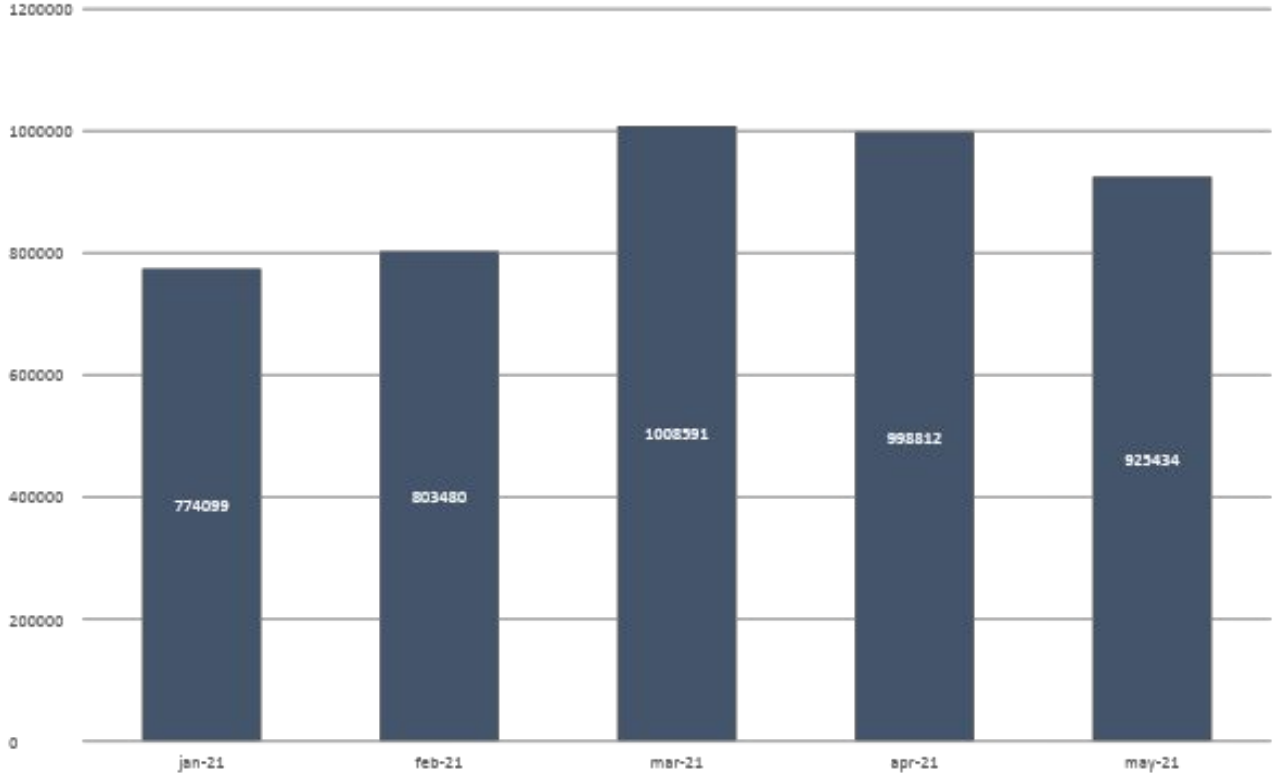
Hosting, distribution, and preservation

DSpace 6.0

OAPEN Library: Number of downloads



OAPEN Library downloads 2021 (COUNTER compliant)



Directory of Open Access Books (DOAB)

Launched in 2012

International hub for peer reviewed open access books

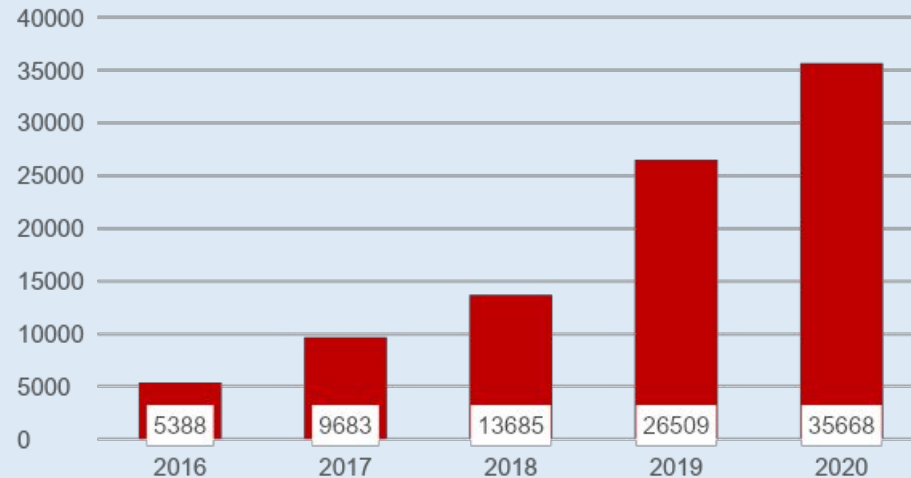
43,000+ OA books indexed

500+ OA book publishers

All metadata is freely available (CC0)

DSpace 6.0

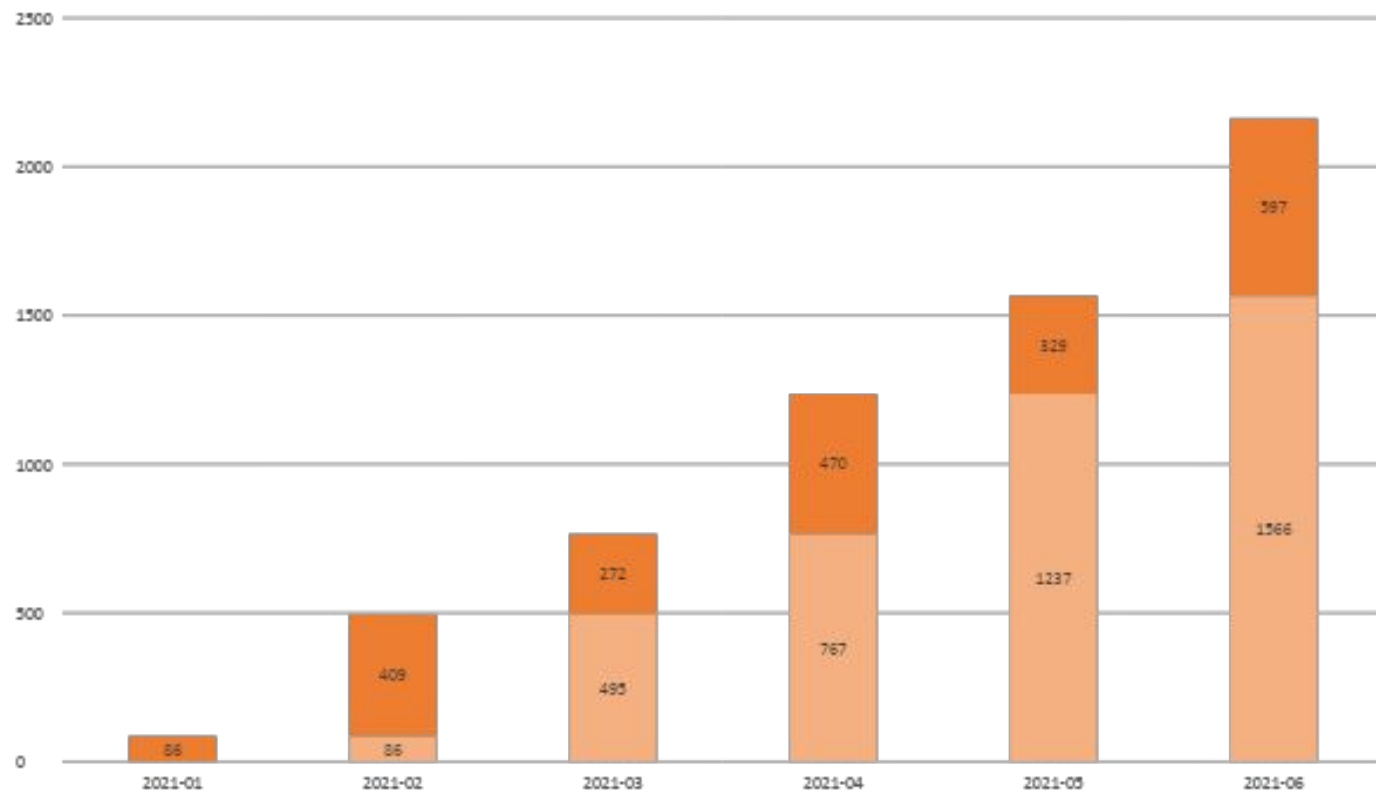
Titles in DOAB



Easy integration with library catalogues

- ✓ Metadata feeds in MARCXML, CSV, RIS, ONIX XML
- ✓ OAI-PMH Harvesting
- ✓ REST API
- ✓ RSS and Atom feeds

New titles added to DOAB in 2021



OAPEN OA Books Toolkit, launched autumn 2020

<https://oabooks-toolkit.org>



Life cycle

FAQ

Keywords

Glossary



About OA ▾

The OA Books landscape ▾

About the Toolkit ▾

Support ▾

Resources ▾

OAPEN OA Books Toolkit



For authors

This toolkit aims to help book authors to better understand open access book publishing and to increase trust in open access books. You will be able to find relevant articles on open access book publishing following the research lifecycle, by browsing frequently asked questions or by searching with keywords.

Life cycle ▶

FAQ ▶

Keywords ▶

Open Access Books Network

Public 284
Group Members



OAPEN is involved in various initiatives

- [OPERAS Research Infrastructure](#) (EU)
- [ENABLE!](#) (DE)
- [OPERAS-P project](#) (EU)
- [TRIPLE project](#) (EU)
- [Community-led Open Publication Infrastructures for Monographs \(COPIM\)](#) (UK)
- [Open Access eBook Usage \(OAeBU\) Data Trust pilot project](#) (US)
- [SCELC & OAPEN Pilot Project](#) (US)
- [European Research Council \(ERC-OAPEN-2019\)](#) (EU)

DOAB/OAPEN Membership

Organisation size	Annual contribution level
Large orgs ¹ from high-income countries	EUR 4,000 / USD 4,850
Small orgs ¹ from high-income countries	EUR 2,000 / USD 2,400
Orgs from low- and middle-income countries; small non-profits; orgs with smaller budgets	EUR 1,000 / USD 1,200

¹ Definition as to large/small follows local frameworks or may be at the discretion of the institution. Get in touch to find out more.

A 25% discount will be deducted from the individual contributions made by members of consortia of 10 or more participating organisations.

<https://doabooks.org/en/librarians/how-to-become-a-doab-supporter>

<https://www.oapen.org/librarians/15963583-support-oapen-libraries> or contact info@oapen.org

Membership benefits

- **Waiving fees** for publishing entities (e.g. University Press) affiliated with the contributing institution.
- **Usage reports.** COUNTER-compliant usage reports including institutional (IP-based) and geolocation (regional) usage, shared on a regular basis.
- **Community involvement.** Contributors are invited to give input to the continued development of the OAPEN and DOAB services on a yearly basis.
- **Acknowledgment** of contributors on the OAPEN and DOAB websites & through our twitter accounts.
- **Metadata integration.** Contributors are entitled to customised feeds, integrating the metadata of OAPEN and DOAB collections of OA books in MARC21 or other formats. Also available through knowledge bases, such as Ex Libris Primo, OCLC WorldCat, EBSCO Discovery Service & GBV.

Engagement & Communication

Engagement

- Participation in the stakeholder committees
- Regular community events for libraries
- Advisory Board
- Scientific Committee

Communication

- Annual stakeholder report
- Newsletters
- Library member mailing list
- Presentations at webinars and conferences



DOAB @DOABooks · 28 okt. 2020

...

Join us next week for a workshop as part of #OPERAS2020 on: An Open Infrastructure for Open Access Books - Nov 4, 10.00 CET including perspectives from @SofieWennstrom, @joanna_ball, @viroviacum, @njneilj, Jeff Edmunds, @eferwerda and @piotr70

Register: operas2020.com



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OPERAS-P

www.operas-eu.org



Thank you for your attention!

Contact

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Tom Mosterd, community manager, t.mosterd@oopen.org

<https://doabooks.org> | <https://oopen.org>



How libraries can engage with infrastructure

PKP at a glance:

- 23 years old
- 3 primary applications (OJS, OPS, OMP), all OSS
- 28 staff
- Budget of ~\$2M, achieved through grants, SaaS (PKP Publishing Services), and memberships/sustainers

PKP community at a glance:

- 7 development partners (SFU Library, UBC Libraries, University of Alberta Library, University of Pittsburgh ULS, TIB, Stanford, OCUL)
- Dozens of sustainers
- Hundreds if not thousands of contributors
- 25,000 journals using OJS in the world (conservatively)

How libraries can engage with infrastructure

“Typical” contributions to PKP:

- Money! Development partners and sustainers (incl. SCOSS) do this.
- Code: Plugins, core code pull requests, bugs/issues filed, etc.

But also:

- Translations (55 OJS translations maintained currently)
- Documentation (6 new guides this year, and new translations)

How libraries can engage with infrastructure

More fundamental engagement:

- Usability and accessibility testing
- Contributing to PKP School / education resources
- Engagement with advisory committees and working groups (Advisory, Members and Technical Committees; Documentation Interest Group, Accessibility Interest Group, etc.)
- Co-development of grant applications
- Regional workshops, sprints, webinars

How libraries can engage with infrastructure

Some examples of extraordinary engagement:

- Documentation Interest Group:
 - Documentation was originally done @ PKP by one or two people, as an end product
 - With the formation of the DIG, we now have 20+ people, including many non-PKP staff, contributing
 - Document writing happens as new code is tested, and is now available shortly after release
 - Contributions also come from other infra partners: Crossref, ORCID, Google Scholar staff all review, contribute and refer to this documentation
 - Engaged library staff often work directly with key technical partners at these orgs to do the work - developing a very interesting supplementary community of practice
 - Multiple translations of this work are made available (mainly French, Spanish and Portuguese, but also some documents in Arabic, Suomi and other languages!)

How libraries can engage with infrastructure

Open Journal Systems 3

Our flagship software for open access journal publishing, used by more than 10,000 journals worldwide.

Getting Started

Frequently Asked Questions (FAQ): How to use PKP software and common troubleshooting issues.

Launch a new journal: A step-by-step checklist.

Journal policies and workflows: A guide to common journal practices.

</> Developer Documentation

Developer documentation, reference guides and more to help you build themes, write plugins and develop new features for OJS. [View Now](#)

Upgrading from OJS 2 to OJS 3

In this guide, we describe some of the changes between OJS 2 and OJS 3 and suggest steps for planning and completing your migration. [View Now](#)

Available in [Español](#).

Learning OJS 3

A visual, step-by-step guide to managing a journal with Open Journal Systems. [View Now](#)

- [Settings](#)
- [Users and Roles](#)
- [Authoring](#)
- [Editorial Workflow](#)
- [Reviewing](#)
- ... and [more](#).

Available in العربية, [Español](#), [Français](#), and [Suomi](#).

Designing Your Journal

This guide gives advice and information on how to make your journal attractive, accessible, and unique. It explains how to customize existing themes, create CSS files, and select images and fonts to suit your audience and content. [View Now](#)

Administrator's Guide

A guide for system administrators of PKP applications. [View Now](#)

- [Installing and Upgrading](#)
- [Data Import and Export](#)
- [Statistics](#)
- [Email](#)
- [Troubleshooting](#)
- ... and [more](#).

Available in [Français](#).

Creating Accessible Content

The Creating Accessible Content guide covers the general principles of creating universally accessible content published on the web. [View Now](#)

Available in [Português](#).

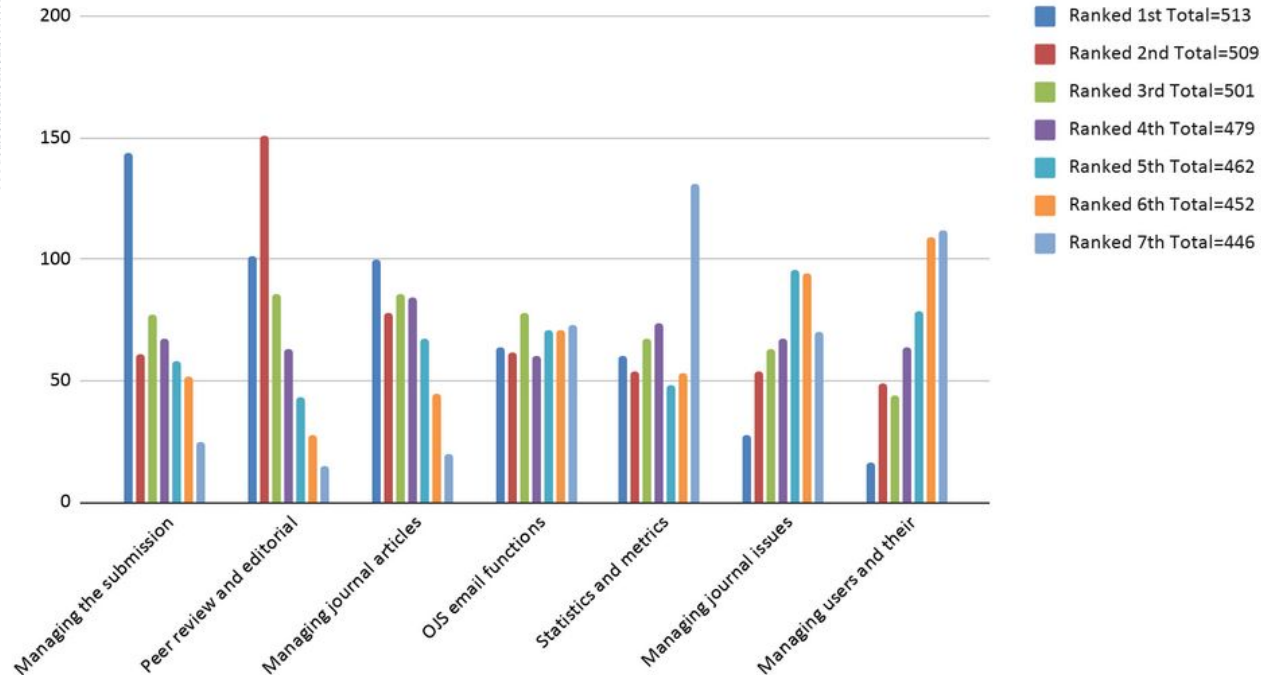
PKP Technical Committee Survey

- What happens to the feature requests? (Answer: informal)
- Is the roadmap reflective of community expressions of interest?
- Feature request categories:
 - Managing the submission list (My Queue, Unassigned, All Active, Archives)
 - OJS email functions
 - Peer review and editorial decision workflow
 - Managing journal articles for publication
 - Managing journal issues
 - Managing users and their accounts
 - Statistics and metrics

Results

- 524 Comprehensive Responses
- In depth for top 3
- Facets:
 - OJS 2 vs 3
 - Years used
 - Role (host vs. editor)
- Valuable free-text Responses
- Webinar to come!
- Release cycle

All categories and rankings



Credit

- Sonya Betz, University of Alberta
- Marc Bria, Universitat Autònoma de Barcelona
- Alex Mendonça and Carolina Tanigushi, SciELO
- Michelle Brailey, University of Alberta

Thanks to everyone who contributed!

How is this working for PKP?

- We have a lot of community support.
- We have a lot of community requests/requirements.
- We spend a lot of time triaging, balancing requests, and “managing”.
- We are still a very small team at the core. We risk:
 - Burnout
 - Not being able to take on truly large projects
 - Promising too much and delivering too little
- That said, this is working for PKP for now. We are sustainable, if slow.
- But we are very interested in new solutions to this kind of cycle.

Thank you!

- PKP: <https://pkp.sfu.ca>, @pkp
- James MacGregor: jbm9@sfu.ca, @jmacgreg

Questions for the audience

1. What would prevent or encourage libraries in the German speaking region to support open infrastructures?
2. Community governance: what kind of involvement would they like to see, how would they want to be involved?

Wrap-up

Thank you for attending