

OpenAlex – a Gamechanger?

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Dr. Bernhard Mittermaier | Forschungszentrum Jülich | 0000-0002-3412-6168 | b.mittermaier@fz-juelich.de Najko Jahn | SUB Göttingen | 0000-0001-5105-1463 | najko.jahn@sub.uni-goettingen.de







Bibliometric Databases

Database	Vendor	Start	open	inclusive	GUI
Web of Science	Eugene Garfield ISI / Thomson Reuters / Clarivate	print 1964, magnetic tape 1966, web 1997	Х	Х	✓
Scopus	Elsevier	2004	Х	Х	\checkmark
OpenCitations Corpus	OpenCitations	2010	√	√	Х
Dimensions	DigitalScience	2018	(<u>X</u>)	\checkmark	\checkmark
OpenAlex	OurResearch	2022	\checkmark	\checkmark	\checkmark

The Competence Network Bibliometrics Kompetenznetzwerk Bibliometrie (KB)



Competence network and data infrastructure for bibliometric research and application in Germany since 2008.

Data basis: proprietary solutions Web of Science and Scopus.

The network includes 23 partners, more than 200 published research works.

The current funding period (2022-2024) includes a pilot to move from closed to open data practices by integrating **OpenAlex** (KBOPENBIB).















Aims of KBOPENBIB

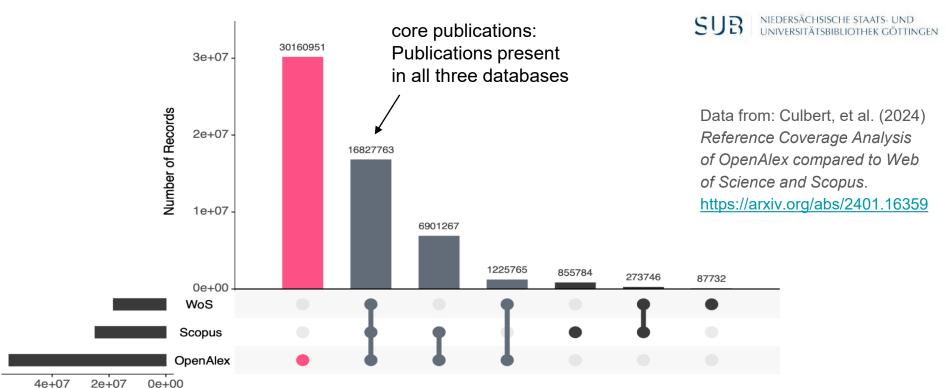
- ✓ Provision of OpenAlex within the KB data infrastructure
- ✓ Coverage analyses: Comparing OpenAlex with Web of Science and Scopus
 - → Items and References
 - → Authors
 - → Affiliations from German institutions
 - → Document types
 - → Funding
 - → Journals and publishers
 - → Open Access and full-texts
 - Curation with focus on German research landscape



Overlap of OpenAlex, Scopus and Web of Science

Total Records

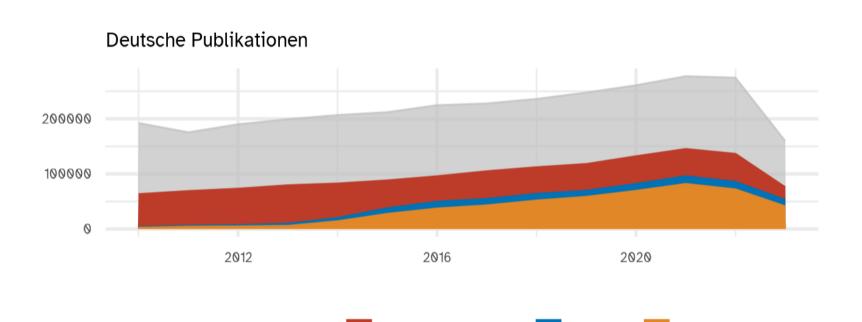




Coverage with respect to grant-supported articles

Förderinformationen





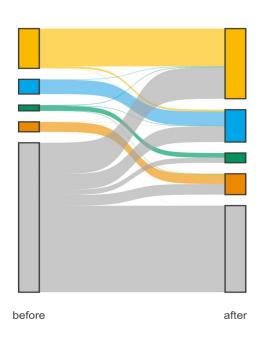
kommerzielle Anbieter

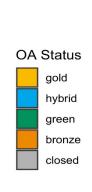
Crossref

OpenAlex

Improving open access status classification







November snapshot available 187 views

ca...@ourresearch.org
to OpenAlex users

Hi All,

The latest OpenAlex snapshot is available to download!

The release notes are:

RELEASE 2023-11-21

- improved affiliation matching for over 2 million works
- added keywords to works
- added cited_by_percentile_year to works
- removed 3.9 million authors with 0 works (merged into deleted profile)
- improved oa status classification, converting 2.1 million closed works to open access statuses (ongoing credit: https://subugoe.github.io/scholcomm_analytics/posts/oalex_oa_status/)

We need to add cited_by_percentile_year to the docs and will do that soon. Enjoy!

Thanks, Casey

Jahn, et al. (2023). Analysing and reclassifying open access information in OpenAlex. https://subugoe.github.io/scholcomm_analytics/posts/oalex_oa_status/

Publisher disambiguation (2010-2022)



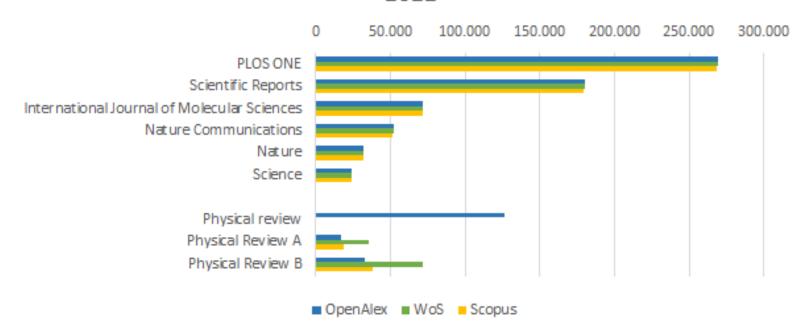
	Distinct publishers in core publications	Wiley & Imprints	Elsevier & Imprints	Springer Nature & Imprints
WoS	3,478	26	45	51
Scopus	3,699	30	42	66
OpenAlex	2,008	4	2	8

core publications: Publications present in each of the databases (16.8 Mio.)

Journal disambiguation



Number of documents for a selection of the top journals of the core publications in OpenAlex, WoS, and Scopus 2010-2022



Affiliation disambiguation



	Web of Science	Scopus	OpenAlex
Distinct address strings	2,269,047	3,449,043	3,955,516
Matching addresses	85.6 %	84.7%	89.9 %
Distinct address- item-combinations	7,393,265	6,973,092	7,495,858
Matching addresses	93.2 %	88.5 %	89.5 %

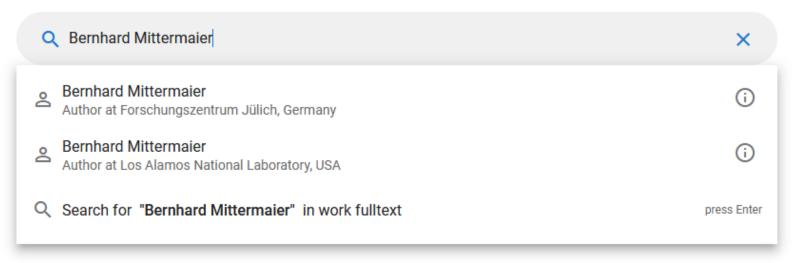
Taubert (2024): OpenAlex im Kompetenznetzwerk Bibliometrie https://biecoll.ub.uni-bielefeld.de/index.php/kwi/article/view/1149/1161

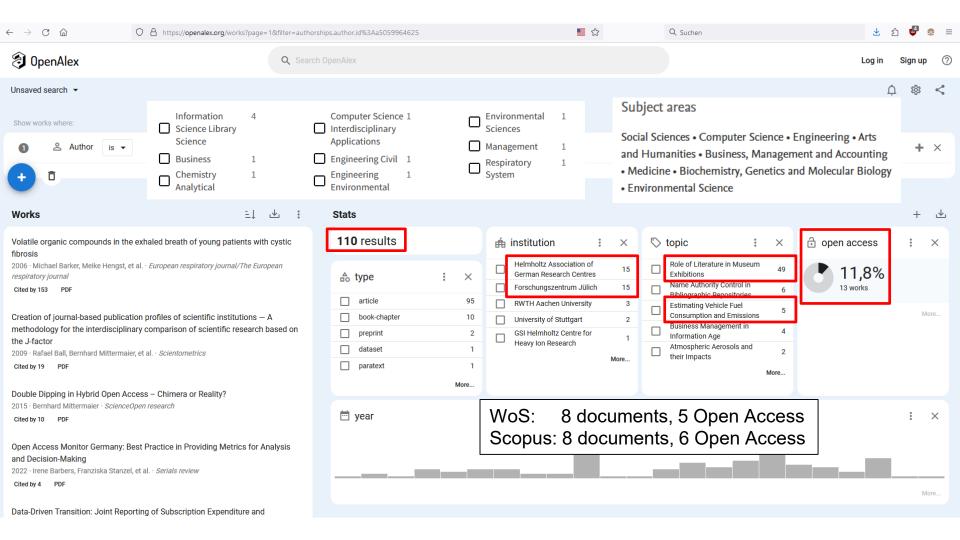
Author-name disambiguation



https://openalex.org

Search and analyze the world's research.





Conclusions

- OurResearch has developed an alternative to proprietary bibliometric databases in an astonishingly short time.
- OurResearch is very responsive to development contributions from the community.
- OpenAlex will remain permanently open ("Principles of Open Scholarly Infrastructures" (POSI), CC-0 license)
- A comparison with the established databases shows that there is still a need for development in some areas. Nevertheless, OpenAlex is already being used productively, e.g. by Sorbonne and CNRS (France), in the Leiden Open Ranking (The Netherlands), and in the German and Swiss Open Access Monitor.

Outlook for Competence Network Bibliometrics



Until end of 2024

Until end of 2025

Improved automatic data curation routines



Starting from 2026

Selective licensing: One proprietary database + OpenAlex (and friends)

Starting from 2029

Fully Open Data: Presumably only OpenAlex

GEFÖRDERT VOM

