

# OpenAlex – a Gamechanger?

112. BiblioCon Hamburg, 05.06.2024

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#### **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	<b>√</b>
Scopus	Elsevier	2004	Х	Х	$\checkmark$
OpenCitations Corpus	OpenCitations	2010	<b>√</b>	<b>√</b>	Х
Dimensions	DigitalScience	2018	( <u>X</u> )	$\checkmark$	$\checkmark$
OpenAlex	OurResearch	2022	$\checkmark$	$\checkmark$	$\checkmark$

# The Competence Network Bibliometrics Kompetenznetzwerk Bibliometrie (KB)



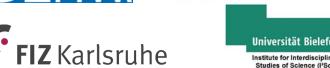
Competence network and data infrastructure for bibliometric research and application in Germany since 2008.

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).













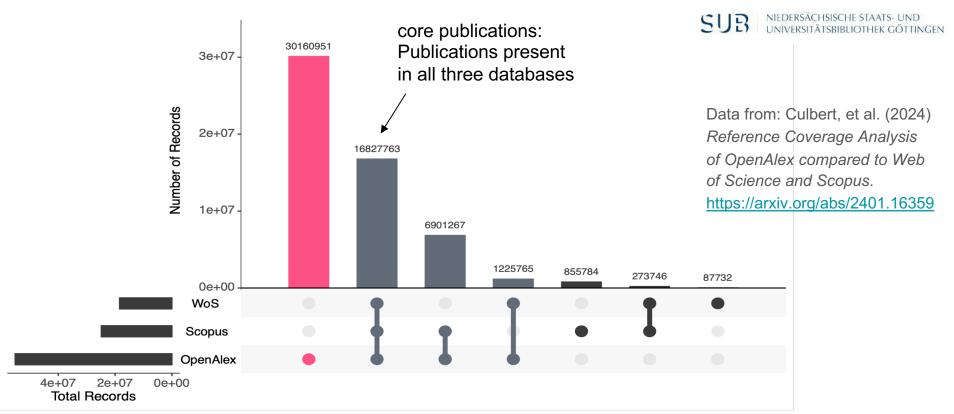
#### Aims of KBOPENBIB

- ✓ 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



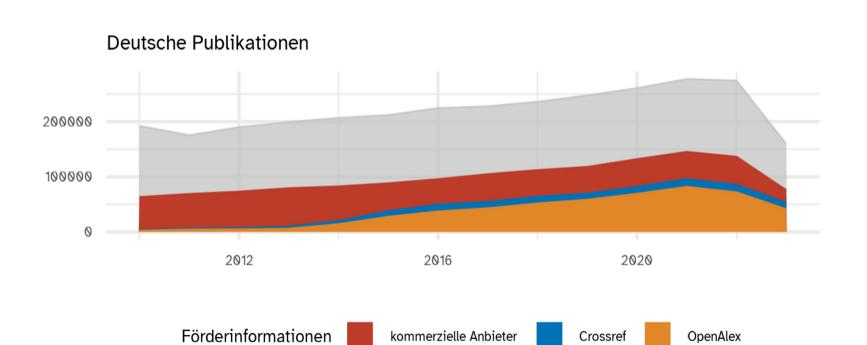
# Overlap of OpenAlex, Scopus and Web of Science





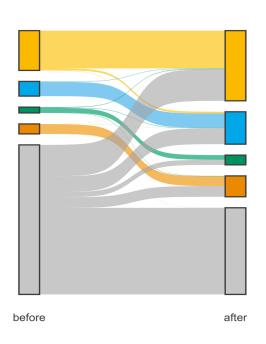
# Coverage with respect to grant-supported articles

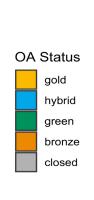




#### Improving open access status classification SUB NIEDERSÄCHSISCHE STAATS- UND UNIVERSITÄTSBIBLIOTHEK GÖTTINGEN







#### 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	
WoS	3,478	
Scopus	3,699	
OpenAlex	2,008	

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

# Publisher disambiguation (2010-2022)



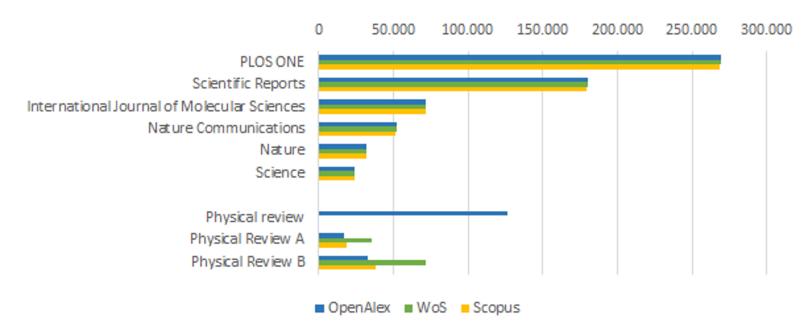
	Distinct publishers in core publications	Wiley & Imprints	Elsevier & Imprints	Springer Nature & Imprints
WoS	3,478	26	45	51
Scopus	3,699	30	42	66
OpenAlex	2,008	4	2	8

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 %

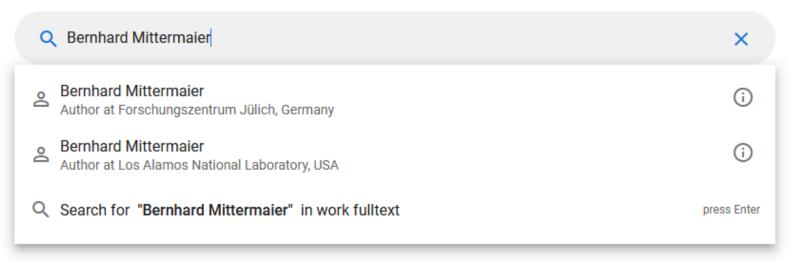
Taubert (2024): OpenAlex im Kompetenznetzwerk Bibliometrie https://biecoll.ub.uni-bielefeld.de/index.php/kwi/article/view/1149/1161

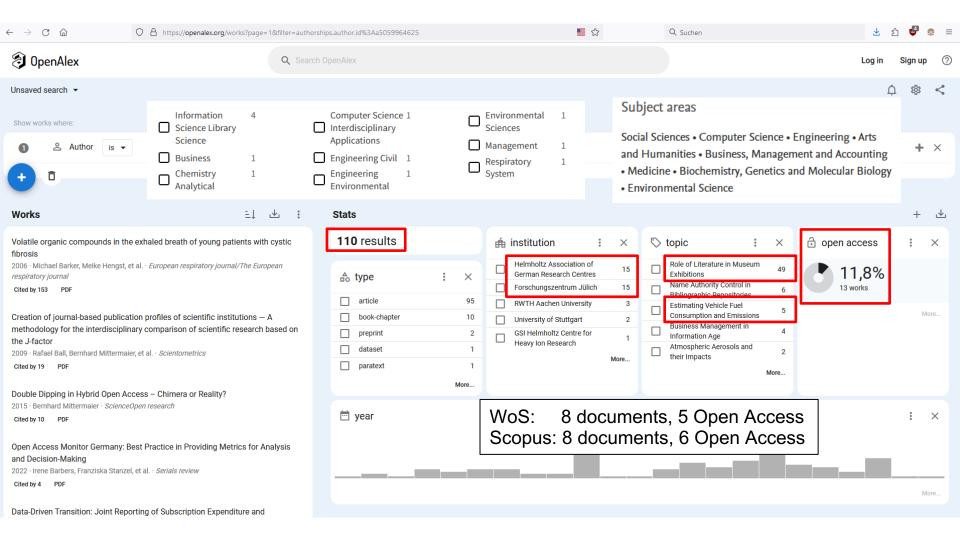
# **Author-name disambiguation**



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

