

# Offene Bibliometriedaten des Kompetenznetzwerks Bibliometrie

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<https://www.open-bibliometrics.de/>



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# About the KB

*Data infrastructure* for bibliometric research and application in Germany based on the proprietary solutions **Web of Science** and **Scopus** since 2008.

The network includes 25 partners.

The current funding period (2022-25) includes a pilot to move from closed to open data practices by integrating **OpenAlex** (KB OPENBIB).

More info about KB: <https://bibliometrie.info/>



<https://open-bibliometrics.de/>



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# Aims

✓ Provision of OpenAlex within the KB data infrastructure (FIZ Karlsruhe)

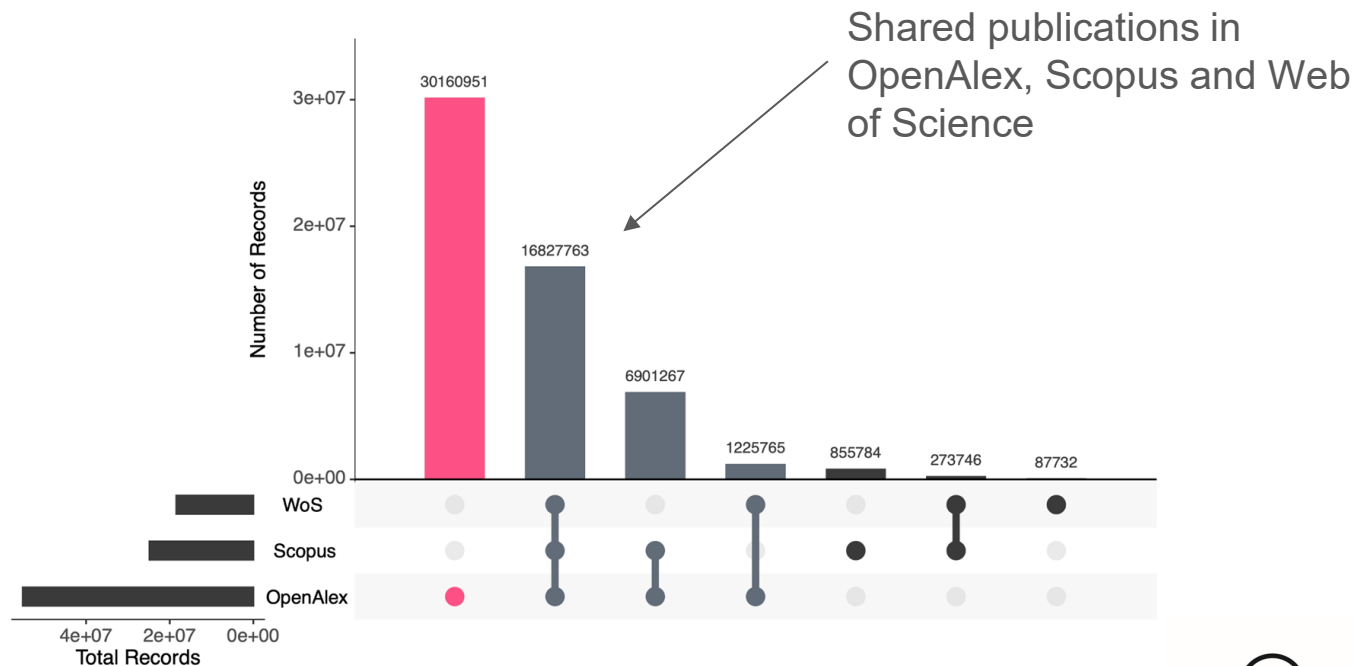
✓ Coverage analyses: Comparing OpenAlex with Web of Science and Scopus

- Items and References (DZHW, SUB Göttingen)
- Authors (GESIS)
- Affiliations from German institutions (Bielefeld University)
- Document types (SUB Göttingen)
- Funding (DZHW)
- Journals and publishers (FZ Jülich)
- Open Access and full-texts (SUB Göttingen, GESIS)

✓ Curation and open data release with focus on German research landscape

# Coverage analyses

## Overlap of OpenAlex, Scopus and Web of Science (2015-22)



Data from: Culbert, J.H., Hobert, A., Jahn, N. *et al.* Reference coverage analysis of OpenAlex compared to Web of Science and Scopus. *Scientometrics* 130, 2475–2492 (2025).

<https://doi.org/10.1007/s11192-025-05293-3>



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# Curation: Approach

- Use of safeguarded snapshots of OpenAlex, as provided by the FIZ Karlsruhe
- Rectangular data linked by OpenAlex IDs and PIDs (DOI, ROR)
- CC0 by default → No derivation from proprietary data sources possible
- Automatic approaches with quality assurance that can be reproduced
- Different ways to access the data
- Provide computational use cases how to work with the data



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# Announcing OPENBIB Initial Data Release

[DATA](#)

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GESIS – Leibniz Institute for the Social Sciences

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# Initial data release: Entities Overview

Address information 🏛️ (Uni Bielefeld)

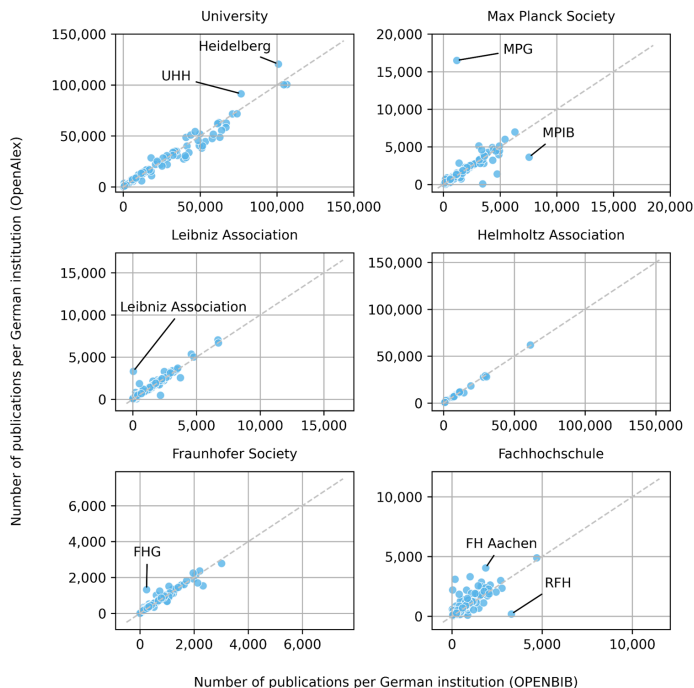
Publishers 📄 (FZ Jülich)

Funding information 📄 (FZ Jülich, DZHW)

Document types 📁 (SUB Göttingen)

Transformative Agreements 📄 (SUB Göttingen)

# Initial data release: Address information



Based on the Bielefeld Institutionkodierung.

First time OpenAlex affiliation data are mapped to sectors of Germany's higher education and research landscape.

Starting in 2021, it enhances and quality assures address data of German research institutions.

The ratio of distinct publications to affiliations is nearly the same. For earlier publications, the affiliations in WoS and Scopus are more complete than in OpenAlex.



# Initial data release: Publishers

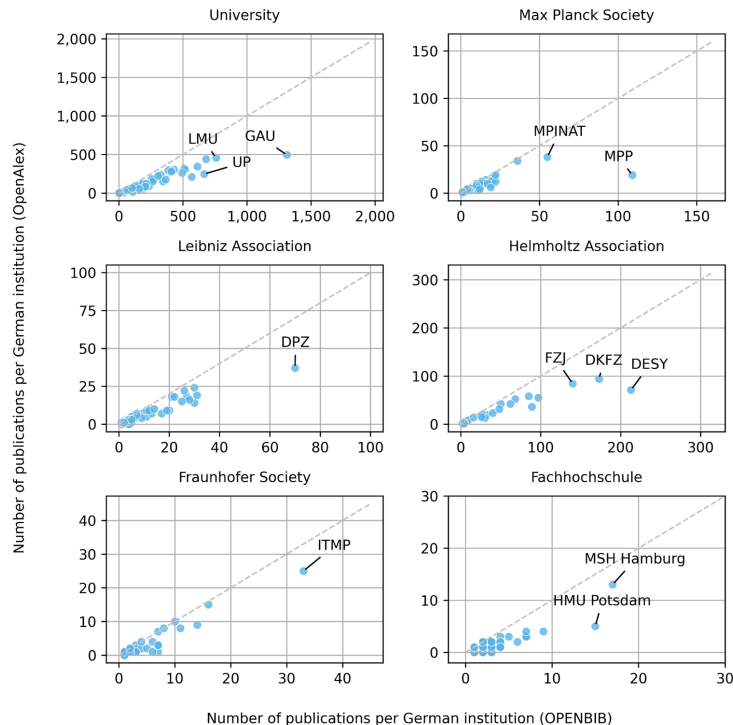
publisher_id	publisher_id_orig	publisher_name	standard_name	unit_pk	wikidata	ror	url
13711	<a href="https://openalex.org/P4310320330">https://openalex.org/P4310320330</a>	Adis, Springer Healthcare	Springer Healthcare	249	<a href="https://wikidata.org/wiki/Q52636673">https://wikidata.org/wiki/Q52636673</a>		<a href="https://springerhealthcare.com/">https://springerhealthcare.com/</a>
37020	<a href="https://openalex.org/P4310320090">https://openalex.org/P4310320090</a>	Springer Medizin	Springer Medizin	80	<a href="https://wikidata.org/wiki/Q29458659">https://wikidata.org/wiki/Q29458659</a>		<a href="https://www.springermedizin.de/">https://www.springermedizin.de/</a>
1099		Springer Nature	Springer Nature	220	<a href="https://wikidata.org/wiki/Q21096327">https://wikidata.org/wiki/Q21096327</a>	<a href="https://ror.org/0117xy09">https://ror.org/0117xy09</a>	<a href="https://www.springernature.com/">https://www.springernature.com/</a>
25525	<a href="https://openalex.org/P4310319965">https://openalex.org/P4310319965</a>	Springer Nature	Springer Nature	220	<a href="https://wikidata.org/wiki/Q21096327">https://wikidata.org/wiki/Q21096327</a>	<a href="https://ror.org/0117xy09">https://ror.org/0117xy09</a>	<a href="https://www.springernature.com/">https://www.springernature.com/</a>
32820	<a href="https://openalex.org/P4310320108">https://openalex.org/P4310320108</a>	Springer Nature (Netherlands)	Springer Nature (Netherlands)	263	<a href="https://wikidata.org/wiki/Q30338262">https://wikidata.org/wiki/Q30338262</a>	<a href="https://ror.org/01ebjwm20">https://ror.org/01ebjwm20</a>	<a href="https://group.springernature.com/">https://group.springernature.com/</a>
35162	<a href="https://openalex.org/P4310319972">https://openalex.org/P4310319972</a>	Springer International Publishing	Springer Nature (Switzerland)	250	<a href="https://wikidata.org/wiki/Q21820634">https://wikidata.org/wiki/Q21820634</a>	<a href="https://ror.org/03v60jr94">https://ror.org/03v60jr94</a>	<a href="https://www.springer.com/de">https://www.springer.com/de</a>
20506		Springer Science and Business Media LLC	Springer Science+Business Media	79	<a href="https://wikidata.org/wiki/Q176916">https://wikidata.org/wiki/Q176916</a>		<a href="https://www.springer.com/">https://www.springer.com/</a>
36249	<a href="https://openalex.org/P4310319900">https://openalex.org/P4310319900</a>	Springer Science+Business Media	Springer Science+Business Media	79	<a href="https://wikidata.org/wiki/Q176916">https://wikidata.org/wiki/Q176916</a>		<a href="https://www.springer.com/">https://www.springer.com/</a>
10756	<a href="https://openalex.org/P4310319986">https://openalex.org/P4310319986</a>	Springer VS	Springer VS	275	<a href="https://wikidata.org/wiki/Q2313945">https://wikidata.org/wiki/Q2313945</a>		<a href="https://www.springer.com/de/springervs">https://www.springer.com/de/springervs</a>

**Initial situation** in OpenAlex: Highly standardized names for publishers available, along with data records containing a publisher ID, but issues persists.

**Aim:** bring together what belongs together in order to simplify evaluations at publisher level (eg parent-child relations, name variants, deceased imprints, ...)

**Necessary:** Identify publishers and their spelling variants and merge them under a standard name

# Initial data release: Funding data



Using data about financing open access publications from the DFG “Open-Access-Publikationskosten” program as a proxy to identify DFG funding

Rather small, but research information of high quality provided by the Open Access Monitor!

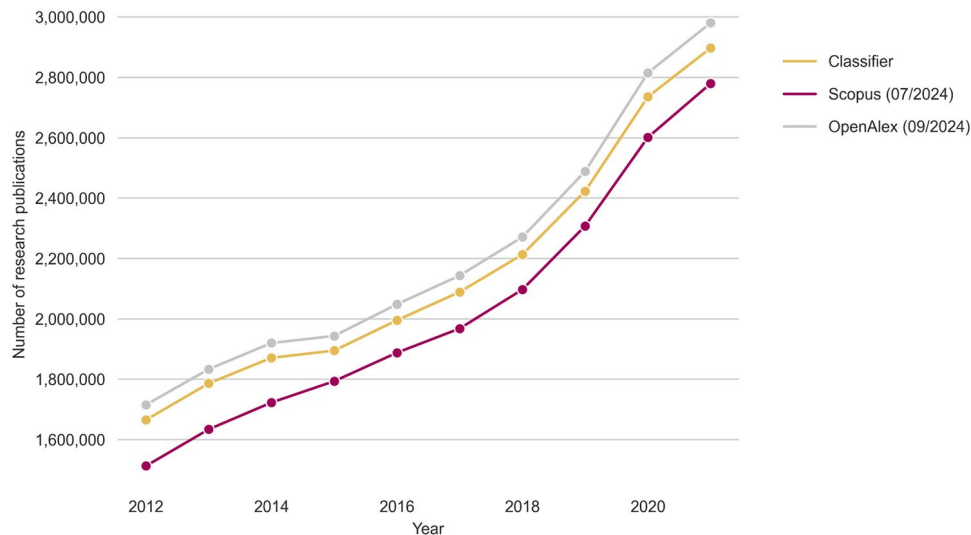
Show-case for the integration of more funding data from German research funders!

# Initial data release: Document types

Aim: Improve the identification of original research contributions like research articles

Method: Machine Learning Classifier trained on data from PubMed and Crossref

Data: The dataset includes all articles and reviews from journals in OpenAlex (Snapshot: 08/2024) with publication years 2014 to 2024



Blog Post:

[https://subugoe.github.io/scholcomm\\_analytics/posts/oal\\_document\\_types\\_classifier/](https://subugoe.github.io/scholcomm_analytics/posts/oal_document_types_classifier/)



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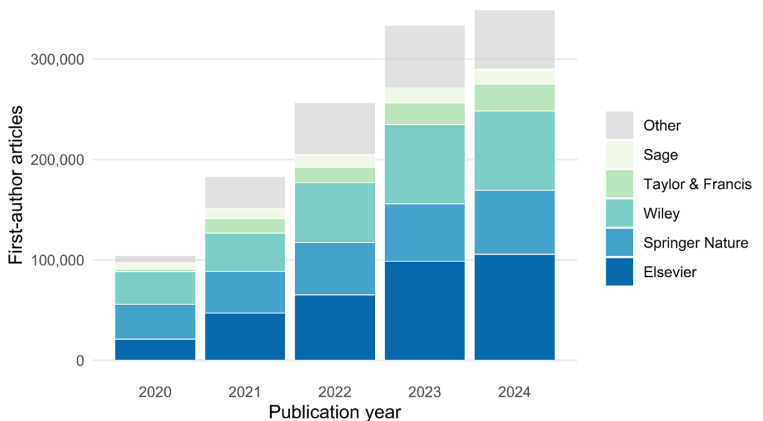


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# Initial data release: Transformative Agreements

## Growth of Transformative Agreements

Annual first-author articles from participating institutions



KBOPENBIB | April 2025 | CC0

Aim: Safeguard and enrich data about open access agreements

Data Sources: ESAC Registry, cOAlition S Transformative Agreement Dump, ISSN Agency and OpenAlex

The dataset comprises:

- 1,043 transformative agreements covering 17,199 eligible journals and 5,355 participating institutions
- 1,362,221 eligible articles published by first authors affiliated with participating institutions

Coverage analysis:

Jahn, N. (2025). *Estimating Transformative Agreement Impact on Hybrid Open Access: A Comparative Large-Scale Study Using Scopus, Web of Science and Open Metadata.*

<https://arxiv.org/abs/2504.15038>



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# Initial Data Release: Access

Website: <https://open-bibliometrics.de>

Announcement: <https://open-bibliometrics.de/posts/20250507-OpenDataRelease/>

Data provision:

– KB data infrastructure FIZ Karlsruhe `kb_project_openbib`

– Zenodo: <https://zenodo.org/records/15308680>

– Google Cloud BigQuery:

<https://console.cloud.google.com/bigquery?ws=!1m4!1m3!3m2!1subugoe-collaborative!2sopenbib>

Notebooks: [https://github.com/kbopenbib/kbopenbib\\_data](https://github.com/kbopenbib/kbopenbib_data)



## Announcing OPENBIB Initial Data Release

Info

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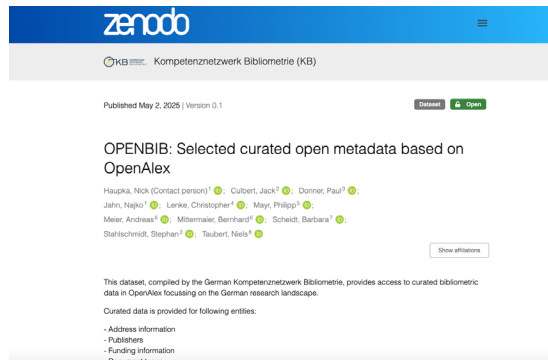
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# Outlook

## Until end of 2025

- 🔧 Improve automatic data curation routines
- 🔧 Quality assurance

## Starting from 2026

- 🔧 Continuous curation of selected entities
- 🤖 OpenAlex (and friends) as a core data pillar to opening up the

# Thank you and follow-ups!

KB OPENBIB partners



<https://bibliometrie.info/> | <https://open-bibliometrics.de/> | KB contact: [kb@dzhw.eu](mailto:kb@dzhw.eu)



<https://open-bibliometrics.de/>



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