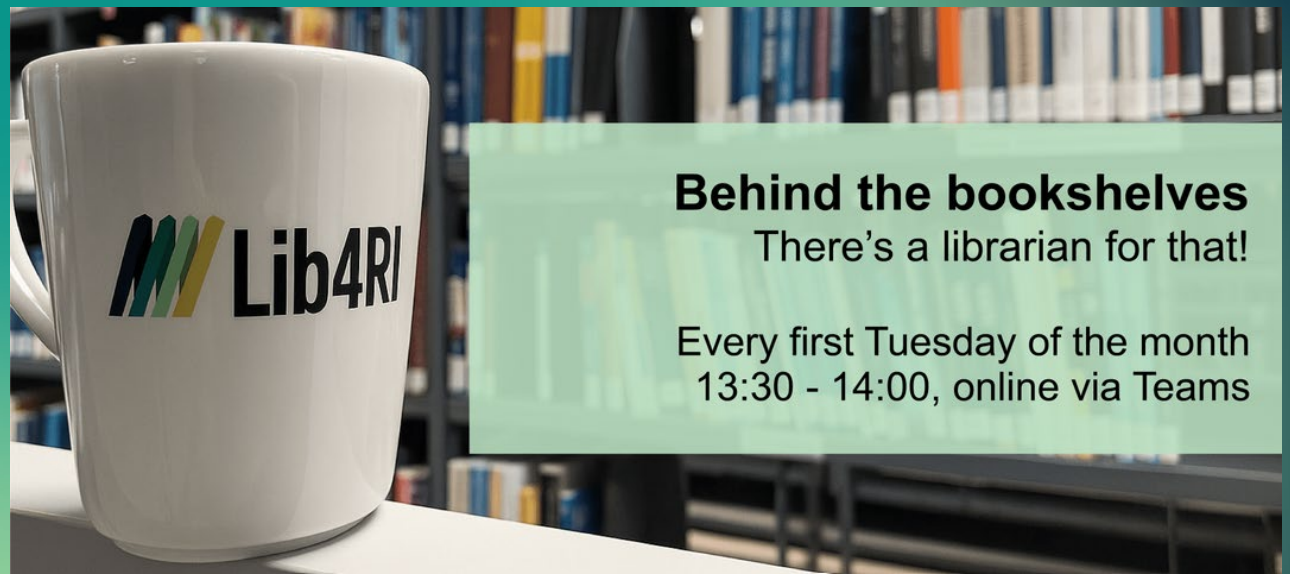
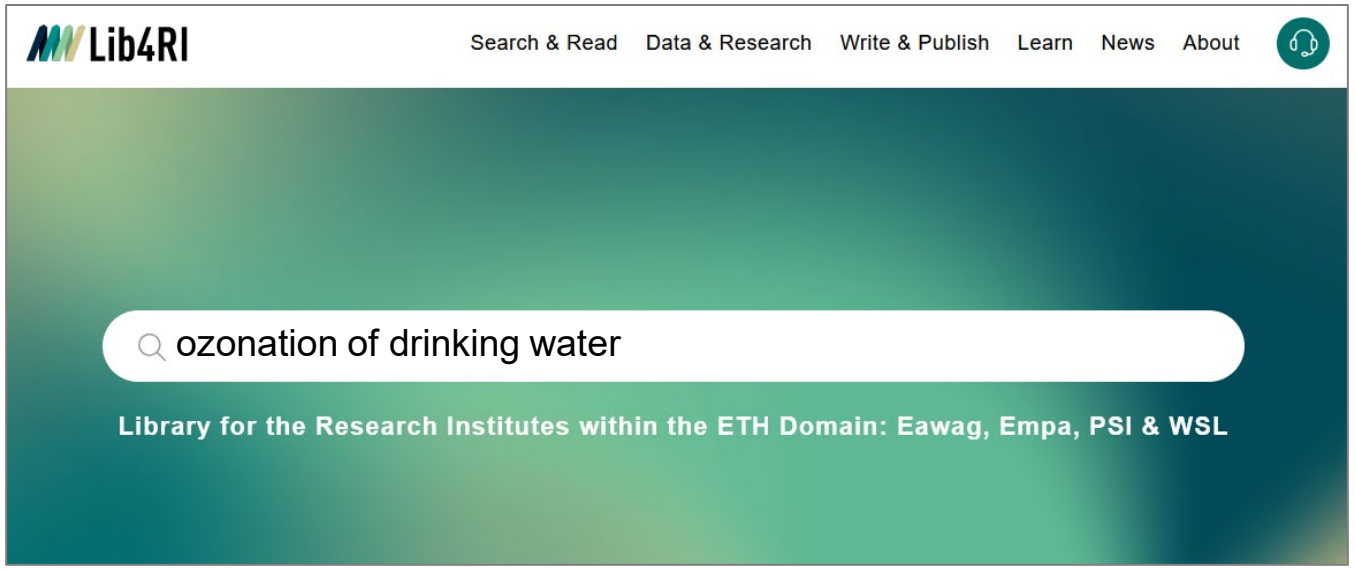
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Dr. Lothar Nunnenmacher

1. How to … ?
2. A look behind the scenes



Just give it a try: The Lib4RI Search Tool



https://www.lib4ri.ch/

BETA Version

ozonation of drinking water

Articles | Journals | Books | Data | Other resources | Lib4RI website

Journal articles, etc.

Institutional repository

OpenAlex — recommendation

- Rice RG et al. Uses of ozone in drinking water treatment 1981. https://doi.org/10.1002/j.1551-8833.1981.tb04637.x.
- Gunten U von. Ozonation of drinking water: Part I. Oxidation kinetics and product formation 2003. https://doi.org/10.1016/s0043-1354(02)00457-8.
- Meunier L et al. Implications of sequential use of UV and ozone for drinking water quality 2006. https://doi.org/10.1016/j.watres.2006.02.030.
- Ac AG et al. Oxidation kinetics of cyclophosphamide and methotrexate by ozone in drinking water 2010. https://doi.org/10.1016/j.chemosphere.2010.03.032.
- Lawrence JR, Cappelli FP. Ozone in drinking water treatment: A review 1977. https://doi.org/10.1016/0048-9697(77)90001-8.

See all 4149 results (title + abstract search)

Extend/modify search:

- 60865 results in fulltext search
- 0 results in author search

Scopus — known databases

- Luo J et al. Integration of hydrodynamic cavitation and preozonation: a physicochemical strategy for effectively addressing intracellular odorants from filamentous cyanobacteria. *Bioresource Technology* 2027. https://doi.org/10.1016/j.biortech.2026.135725.
- Xian Y et al. Controlling 1,4-dioxane and disinfection byproducts during ozone/hydrogen peroxide–granular activated carbon drinking water treatment while maintaining ozone residuals for pathogen inactivation credit. *Water Research* 2027. https://doi.org/10.1016/j.watres.2026.127065.
- Zhang J et al. A scalable Zn-Mn-enabled catalytic ozonation process for robust drinking

DORA — local results

- Huang Z-S et al. Temperature effects on ozonation: impacts on kinetics of organic amines abatement, bromate formation and disinfection. *Water Research* 2026. https://doi.org/10.1016/j.watres.2025.124954.
- Kim S et al. Determining olefinic and phenolic fractions in dissolved organic matter by ozonation with stable oxygen isotope analysis of H_2O_2. *Environmental Science and Technology* 2026. https://doi.org/10.1021/acs.est.6c00499.
- Manasfi T et al. Nitrite oxidation during ozonation revisited: mechanisms of nitration reactions. *Environmental Science and Technology* 2026. https://doi.org/10.1021/acs.est.6c02098.
- Ra J, von Gunten U. Investigation of reaction mechanisms of ozone with amines: evaluation of ^{18}O isotopic labeling techniques in aqueous solution. *Water Research* 2026. https://doi.org/10.1016/j.watres.2025.124625.
- Rath SA et al. Kinetics of aqueous phase ozone reactions of 5-membered aromatic heterocycles. *Water Research* 2026. https://doi.org/10.1016/j.watres.2025.125271.
- Rath SA et al. Reaction kinetics of organic sulfur compounds with ozone in aqueous phase. *Water Research* 2026. https://doi.org/10.1016/j.watres.2025.124649.
- Boudenne J-L et al. Relevance of inputs of disinfection by-products into the marine environment 2025.
- Meyer C et al. Ozonation of pharmaceuticals and their human metabolites in wastewater - insights from laboratory experiments and field data. *Environmental Science and Technology* 2025. https://doi.org/10.1021/acs.est.5c08128.
- Petrus E et al. Automated reaction exploration of ozonation processes for model olefins in water. *Environmental Science and Technology* 2025. https://doi.org/10.1021/acs.est.5c16167.
- Ra J et al. Characterization of organic nitrogen by chlorination, ozonation, and stable isotope analysis of nitrate. *Environmental Science and Technology* 2025. https://doi.org/10.1021/acs.est.5c01034.

BETA Version

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Articles | Journals | Books | Data | Other resources | Lib4RI website

Most relevant journals Open all details

- Nanotechnology
- Nature Nanotechnology
- Beilstein Journal of Nanotechnology
- Journal of Nanoscience and Nanotechnology
- Nanomedicine: Nanotechnology, Biology and Medicine
- IEEE Transactions on Nanotechnology
- e-Journal of Surface Science and Nanotechnology
- Frontiers In Nanotechnology
- Cancer Nanotechnology
- Environmental Nanotechnology, Monitoring and Management

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- Beilstein Journal of Nanotechnology
- Journal of Nanoscience and Nanotechnology
- Nanomedicine: Nanotechnology, Biology and Medicine
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Nanotechnology

Nature Nanotechnology

- Publisher: Nature Research
  - Journal homepage
- Publication period: 2006-
  - Available online (2006-)
  - Print available at Lib4RI Eawag-Empa
- Details:
  - ISSN: 1748-3387
  - ISSN: 1748-3395
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Beilstein Journal of Nanotechnology

- Publisher: Beilstein-institut
  - Journal homepage
- Publication period: 2010-
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  - ISSN: 2190-4286
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- which version of the article?
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- relevant options for DORA

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links to more information,
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Most relevant journals

Open all de

Nanotechnology

Nature Nanotechnology

- Publisher: Nature Research
  - Journal homepage
- Publication period: 2006-
  - Available online (2006-)
  - Print available at Lib4RI Eawag-Empa
- Details:
  - ISSN: 1748-3387
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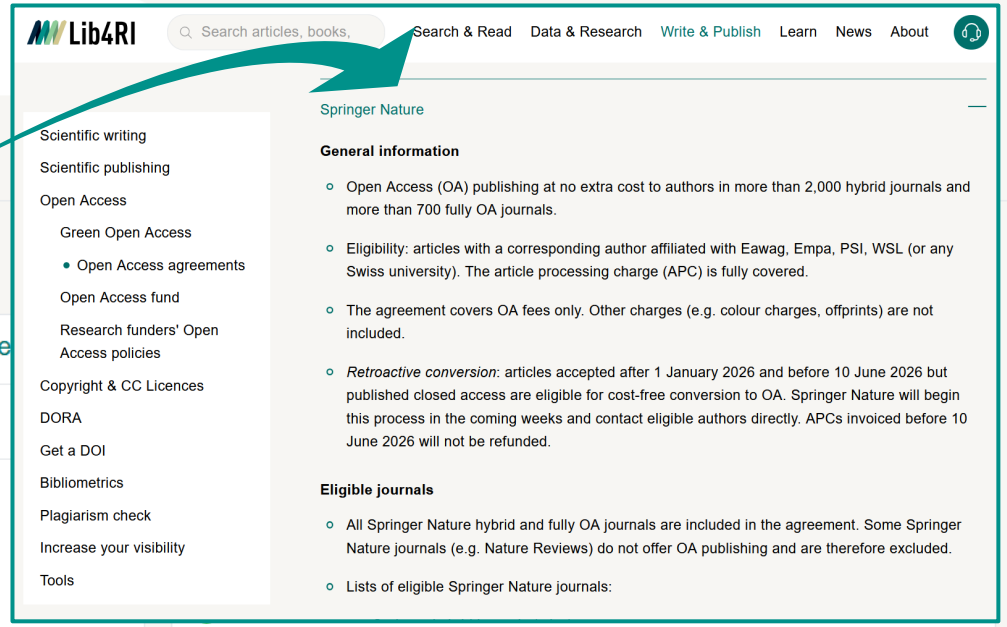
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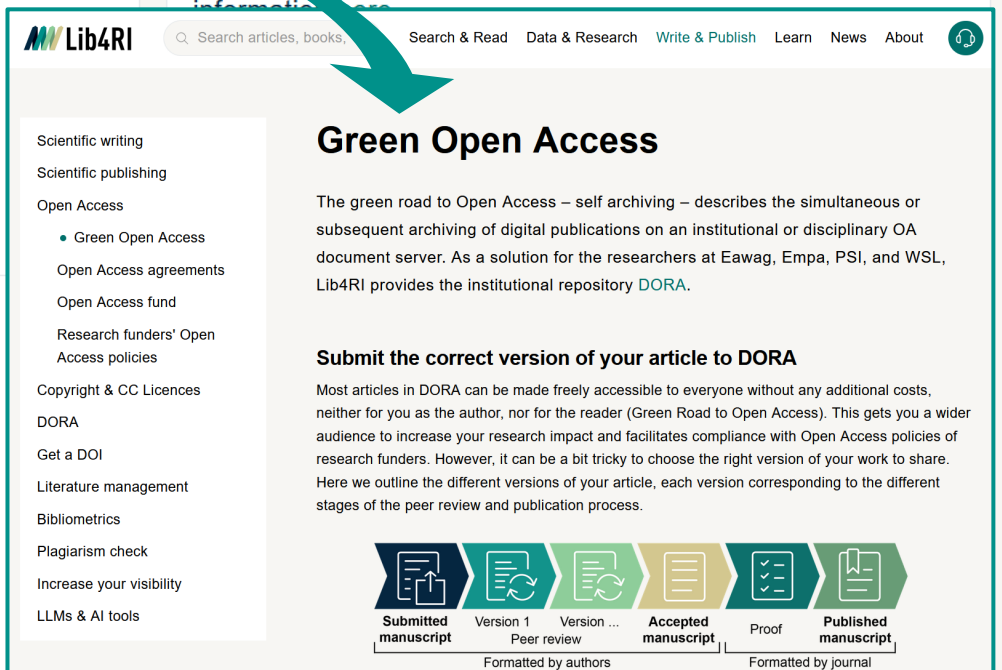
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  - Journal homepage
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- Publisher: Beilstein-institut
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Beilstein Journal of Nanotechnology	28	+
Journal of Nanoscience and Nanotechnology	18	+
Nanomedicine: Nanotechnology, Biology and Medicine	6	+
IEEE Transactions on Nanotechnology	3	+
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Frontiers In Nanotechnology	2	+
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Environmental Nanotechnology, Monitoring and Management	1	+

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expand the search

«Most relevant journals»?

- Journals in which researchers from our institutions publish
- Institutional repository as a source of information

- “wisdom of the crowd”
- less noise

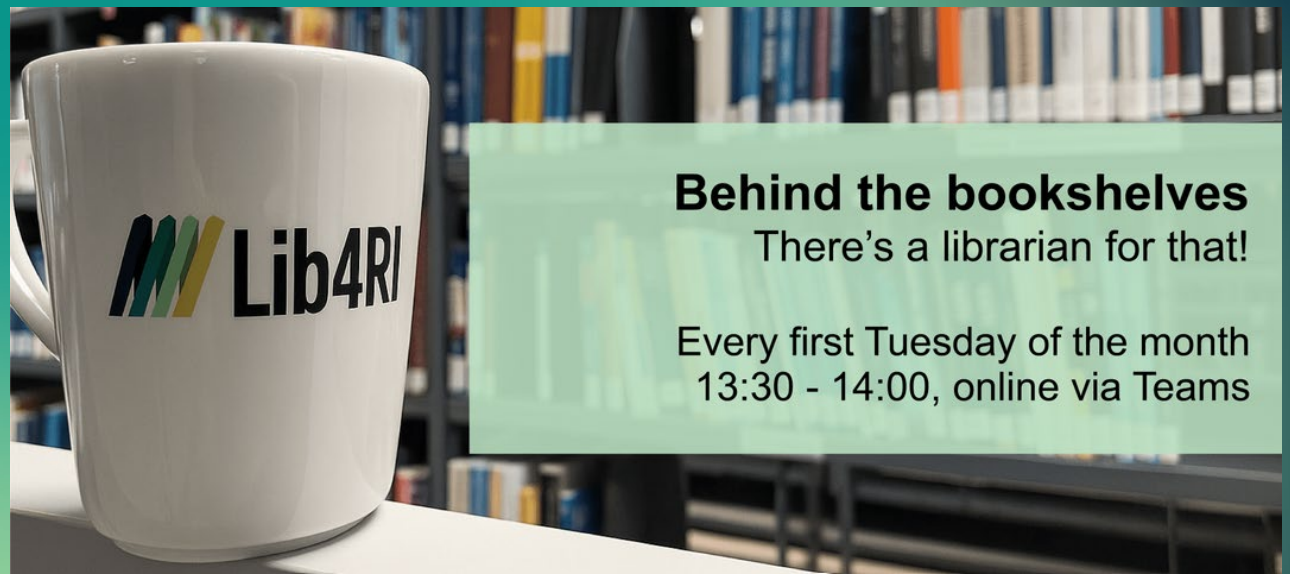
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Quickly find your Open Access publishing options with the Lib4RI Search Tool

Dr. Lothar Nunnenmacher

1. How to … ?

2. A look behind the scenes



From Wikipedia, the free encyclopedia



Lorcan Dempsey, Baltimore, 2017

Lorcan Dempsey is a librarian who was a vice president and Chief Strategist of OCLC, where he worked for 21 years between 2001 and 2022.[1][2] He is currently a professor of practice at the University of Washington Information School.

UX

Full library discovery

The collection remains central to the library experience. However, as library services evolve beyond the collection so it makes sense for discovery services to represent more of what the library does and can provide - to move from 'full collection discovery' to 'full library discovery.'

LORCAN DEMPSEY / SEP 15, 2013 / 4 MIN READ

Full collection discovery

The scope of library discovery services continues to evolve. We might characterise the situation we are in now as *full collection discovery*. The model is of a cloud-based, central index, where the goal has been unified results across collection types delivered in a single search box.The full collection includes material from the catalog, journal articles, and sometimes local digital repository material. Several so-called 'discovery layer' products (including Worldcat Local) are now used to provide this functionality.

From: https://www.lorcandempsey.net/full-library-discovery/

Some libraries with a bento box style discovery system

University of Alabama Libraries https://www.lib.ua.edu/

Columbia University Libraries https://library.columbia.edu/

Cornell University Library https://www.library.cornell.edu/

Duke University Libraries https://library.duke.edu/

Indiana University Libraries https://libraries.indiana.edu/

Lehigh University Libraries https://library.lehigh.edu/

University of Michigan Library https://www.lib.umich.edu/

MIT Libraries https://libraries.mit.edu/

Univ. of North Carolina, U Library https://library.unc.edu/

North Carolina State Univ. Libraries https://www.lib.ncsu.edu/

University of North Texas, U Libraries https://library.unt.edu/

Princeton University Library https://library.princeton.edu/

Smith College Libraries https://libraries.smith.edu/#discover-1

Stanford University Libraries https://library.stanford.edu/

Temple University Libraries https://library.temple.edu/

Villanova Univ., Falvey Library https://library.villanova.edu/

Yale Library https://www.library.yale.edu/

Simon Fraser University Library https://www.lib.sfu.ca/

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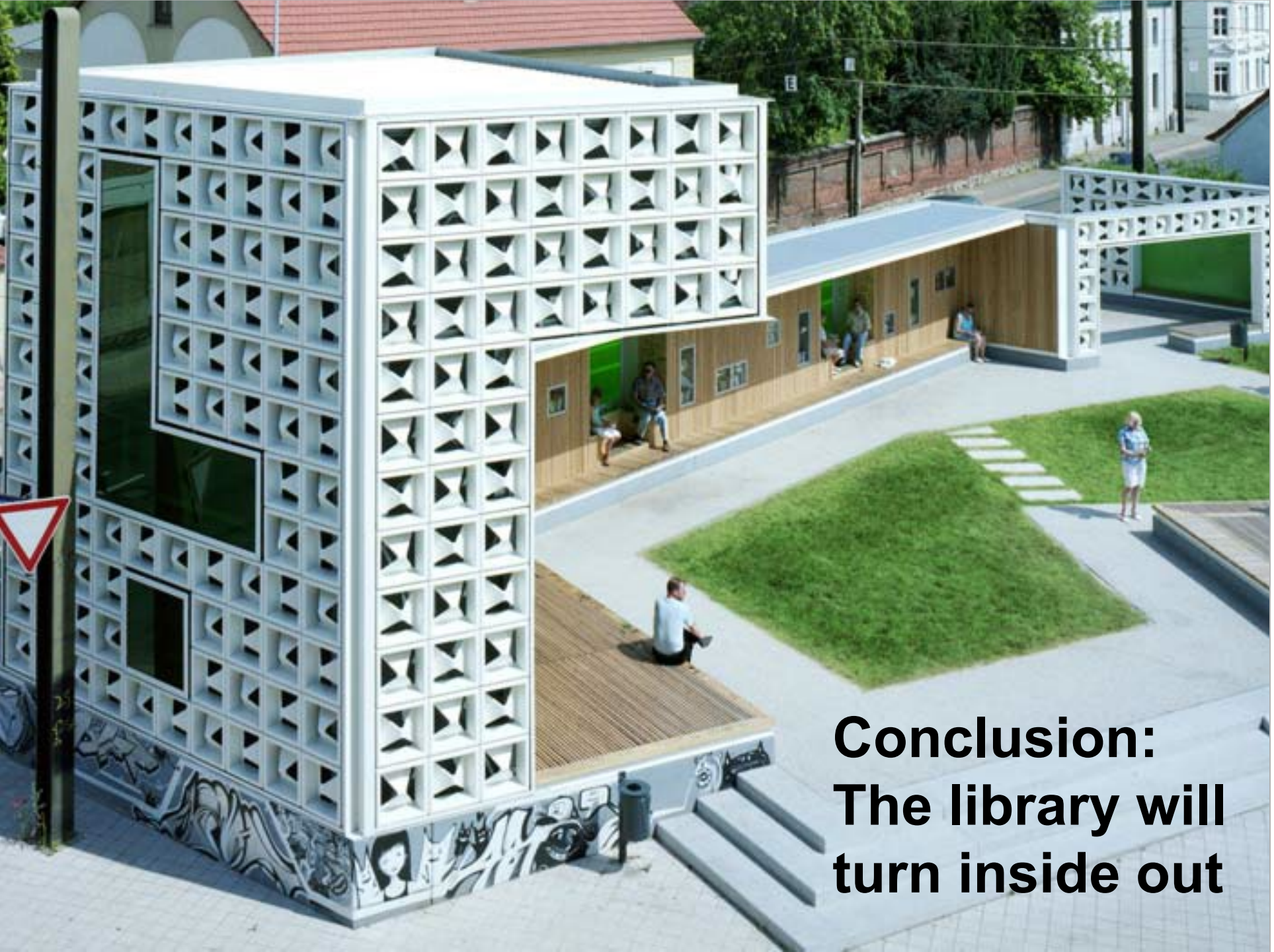
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Conclusion: The library will turn inside out

From:

Mark Walport: Science and the Library in the 21st Century, LIBER Conference 2015, London.

Zenodo, https://doi.org/10.5281/zenodo.3600244,
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Consequence: two streams of information

Reading

Library catalogue

- OPAC
- EZB / ZDB
- many more catalogues

Reading

General literature databases

- Web of Science, Scopus, Open Alex, …

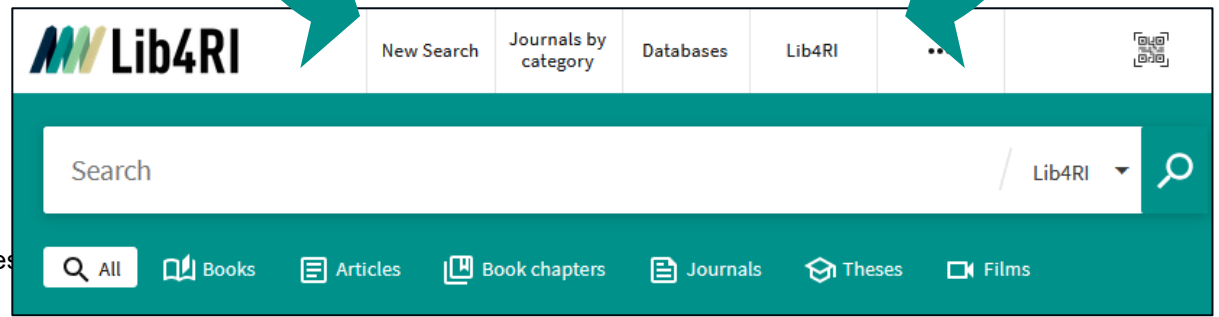
Disciplinary databases

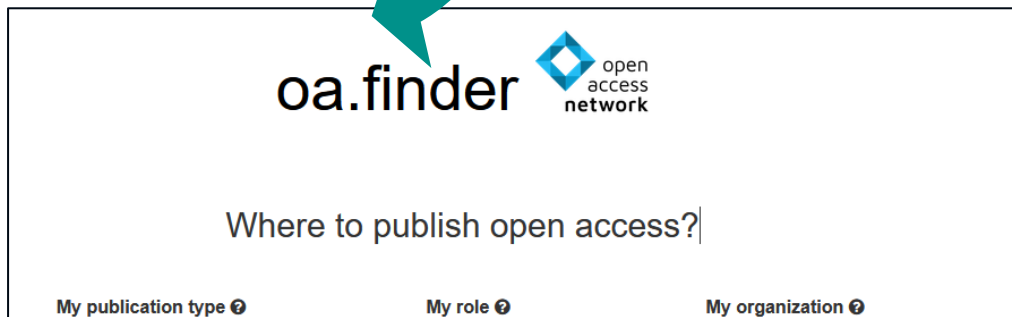
- PubMed, SciFinder, CAB abstracts, …

Publishing

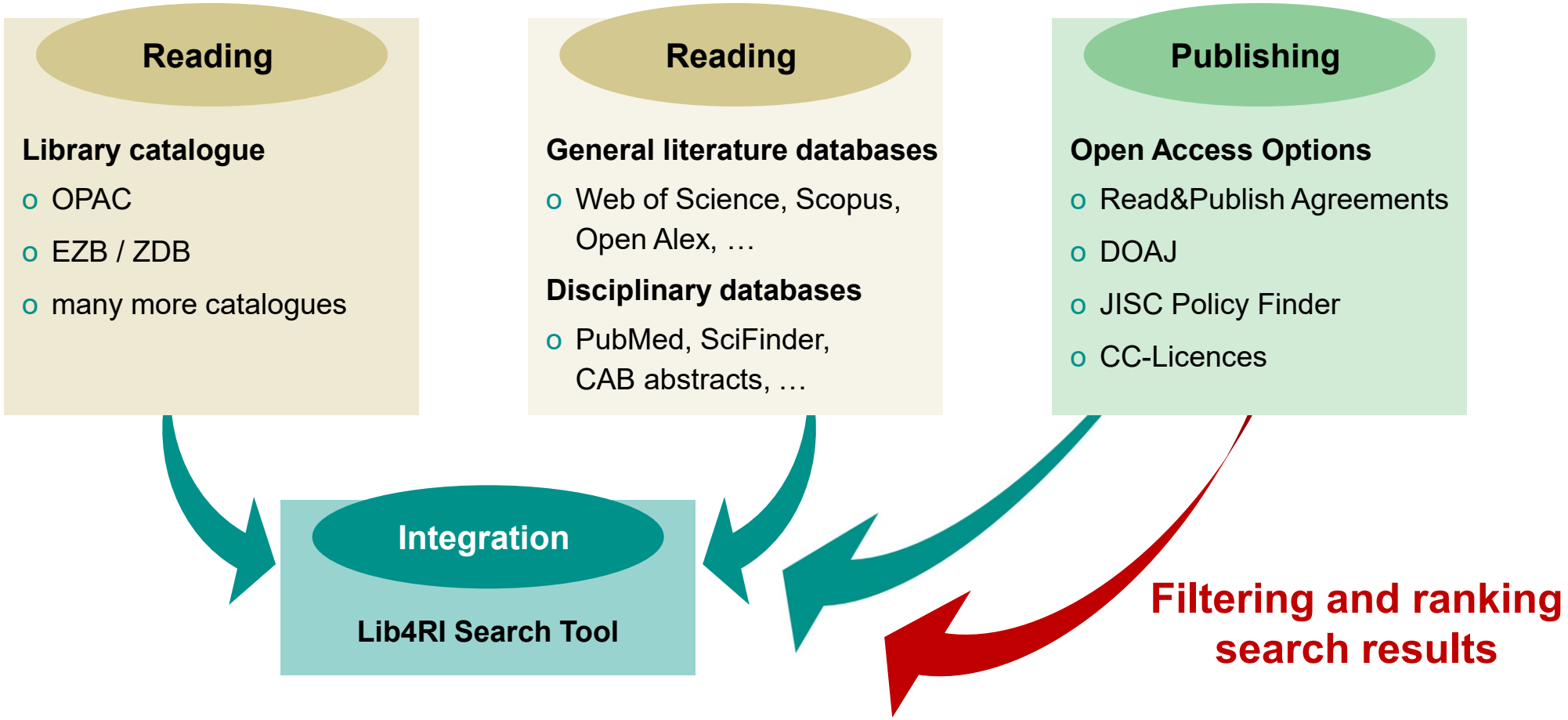
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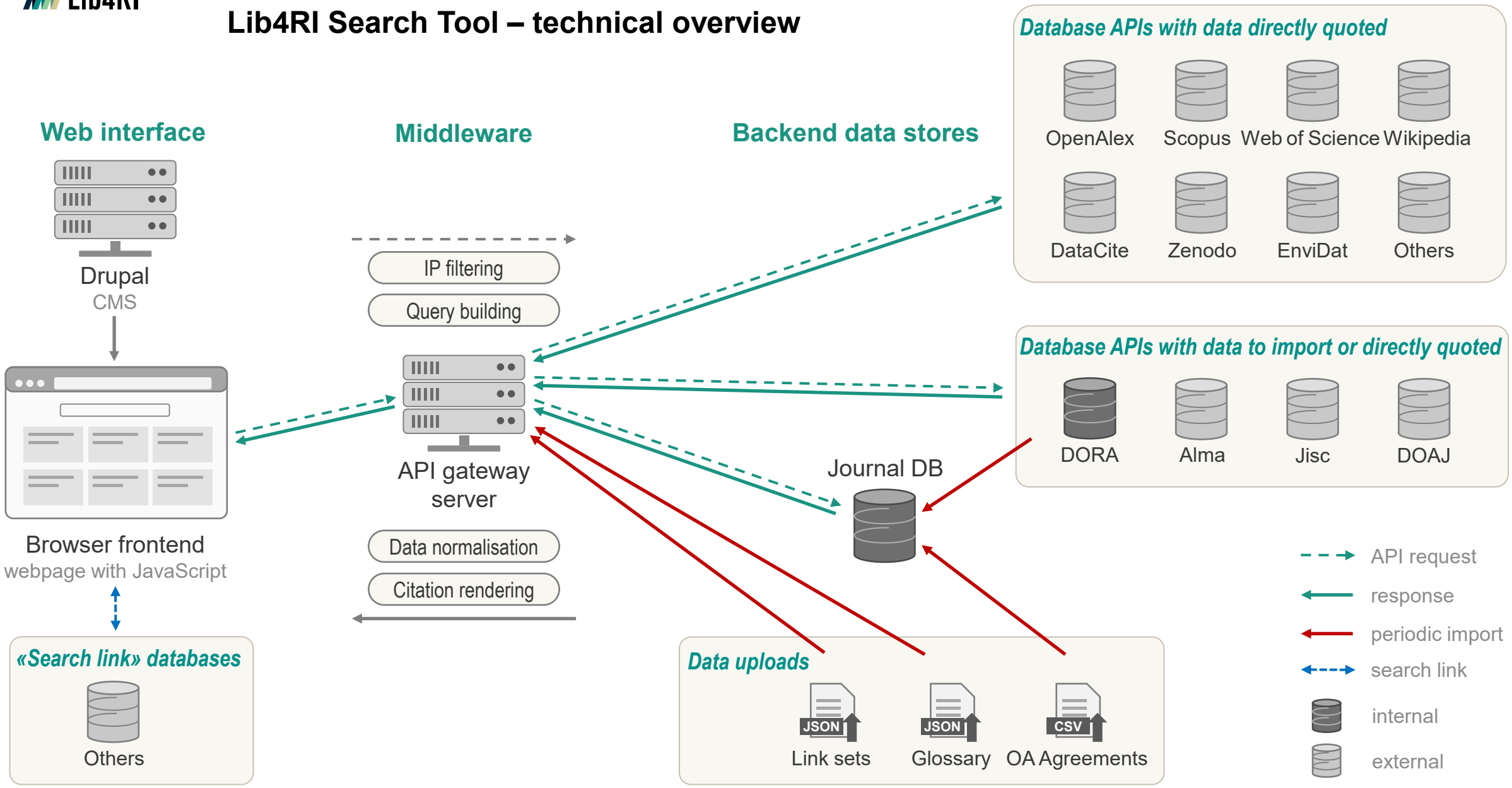




Integrating information on Open Access options into the library discovery system



Lib4RI Search Tool – technical overview



Lib4RI

Integrate AI into search?

BETA Version

janssen cyanotoxins

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Journal articles, etc.

OpenAlex

- Taha HM, Janssen EM. S85 | MICROCYSTINS | Microcystins from CyanoMetDB 2021. https://doi.org/10.5281/zenodo.5665355.
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- Souza Passos L et al. Environmental Mixture Toxicity of Guanitoxin and Organophosphates in Zebrafish: from Developmental and Neurobehavioral Phenotypes to Transcriptomic Responses. *Environmental Science and Technology* 2026:9076-92. https://doi.org/10.1021/acs.est.5c16673.
- Ismail N et al. Seasonality of cyanobacteria and eukaryotes in Lake Geneva and the impacts of cyanotoxins on growth of the model ciliate Tetrahymena pyriformis. *Aquatic Toxicology* 2025. https://doi.org/10.1016/j.aquatox.2025.107262.
- Oliveira J et al. Genetic and Metabolic Diversity of Cyanobacteria on the Rock–Water Interface in Mountainous Ecosystems. *Environmental Science and Technology* 2025:20595-607. https://doi.org/10.1021/acs.est.5c05763.
- Wang X et al. Tracking Extensive Portfolio of Cyanotoxins in Five-Year Lake Survey and Identifying Indicator Metabolites of Cyanobacterial Taxa. *Environmental Science and Technology* 2024:16560-9. https://doi.org/10.1021/acs.est.4c04813.
- Torres M de A et al. Lethal and behavioral effects of semi-purified microcystins, Micropeptin and apolar compounds from cyanobacteria on freshwater microcrustacean Thamnocephalus platyurus. *Aquatic Toxicology* 2024. https://doi.org/10.1016/j.aquatox.2024.106983.

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- Souza Passos L et al. Environmental mixture toxicity of guanitoxin and organophosphates in zebrafish: from developmental and neurobehavioral phenotypes to transcriptomic responses. *Environmental Science and Technology* 2026. https://doi.org/10.1021/acs.est.5c16673.
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- Oliveira J et al. Genetic and metabolic diversity of cyanobacteria on the rock–water interface in mountainous ecosystems. *Environmental Science and Technology* 2025. https://doi.org/10.1021/acs.est.5c05763.
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- Wang X et al. Tracking extensive portfolio of cyanotoxins in five-year lake survey and identifying indicator metabolites of cyanobacterial taxa. *Environmental Science and Technology* 2024. https://doi.org/10.1021/acs.est.4c04813.
- Jones MR, Janssen EM. Quantification of multi-class cyanopeptides in Swiss Lakes with automated extraction, enrichment and analysis by online-SPE HPLC-HRMS/MS. *Chimia* 2022. https://doi.org/10.2533/chimia.2022.133.
- Pittino F et al. Cyanobacteria: extreme environments and toxic metabolites. *Chimia* 2022. https://doi.org/10.2533/chimia.2022.967.
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Eawag: 10 results, Empa: 0 results, PSI: 0 results, WSL: 2 results

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Integrate AI into search?

BETA Version

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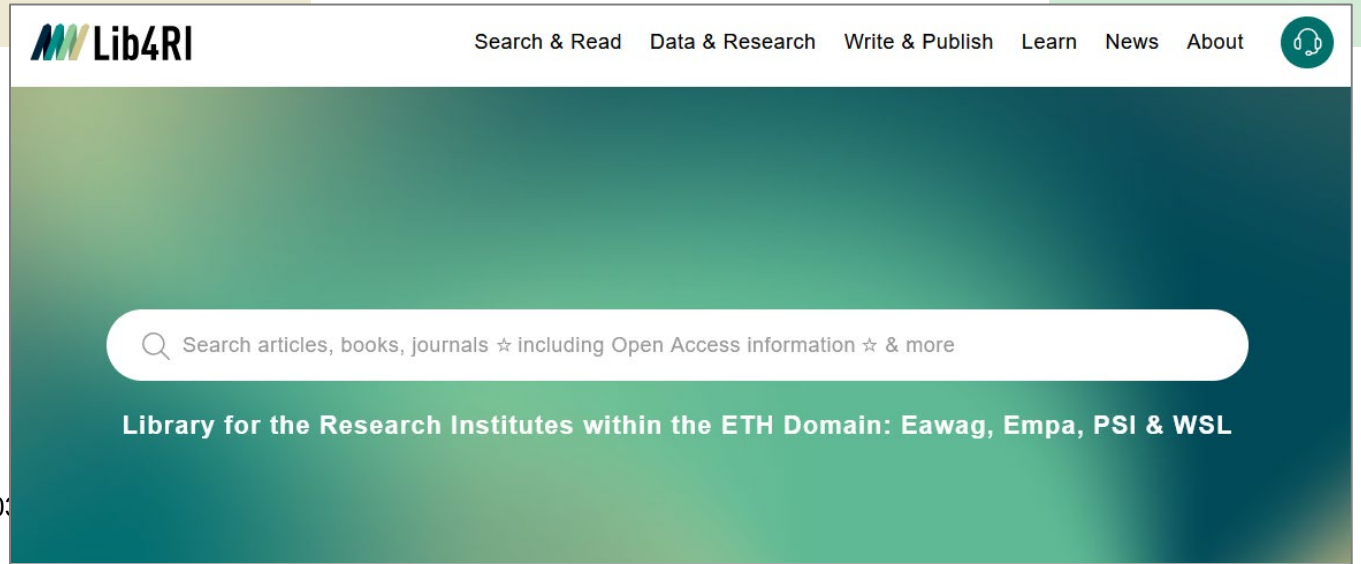
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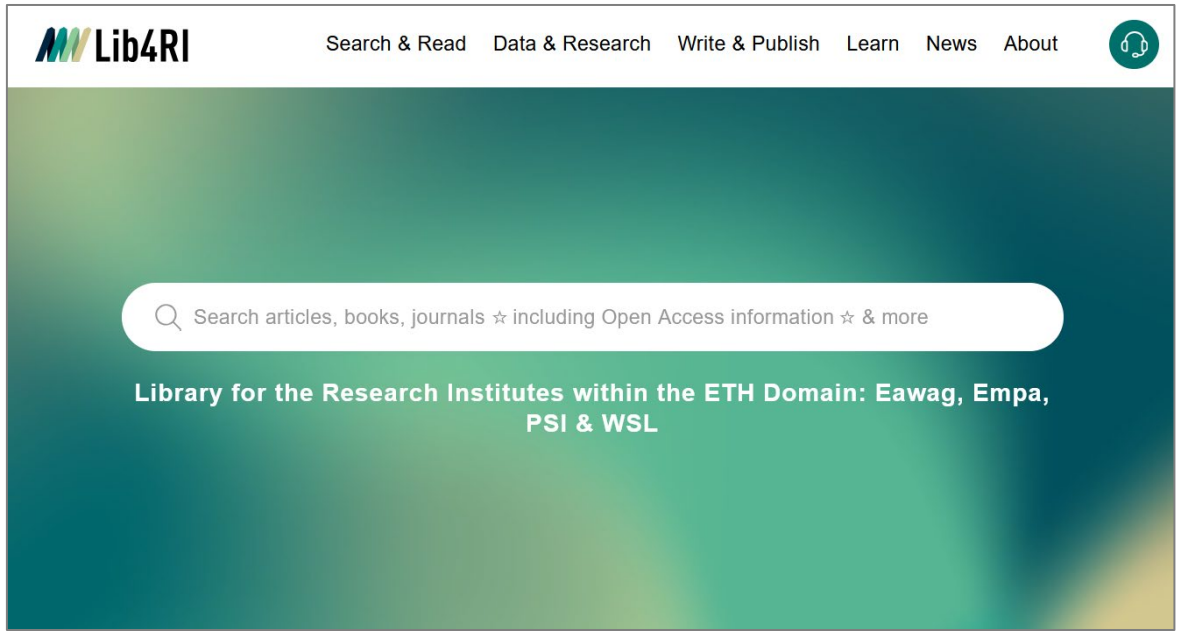
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Questions? Discussion!



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