

# Bibliothekskatalog 2.0: Anreicherung, Ranking, Open Access und KI

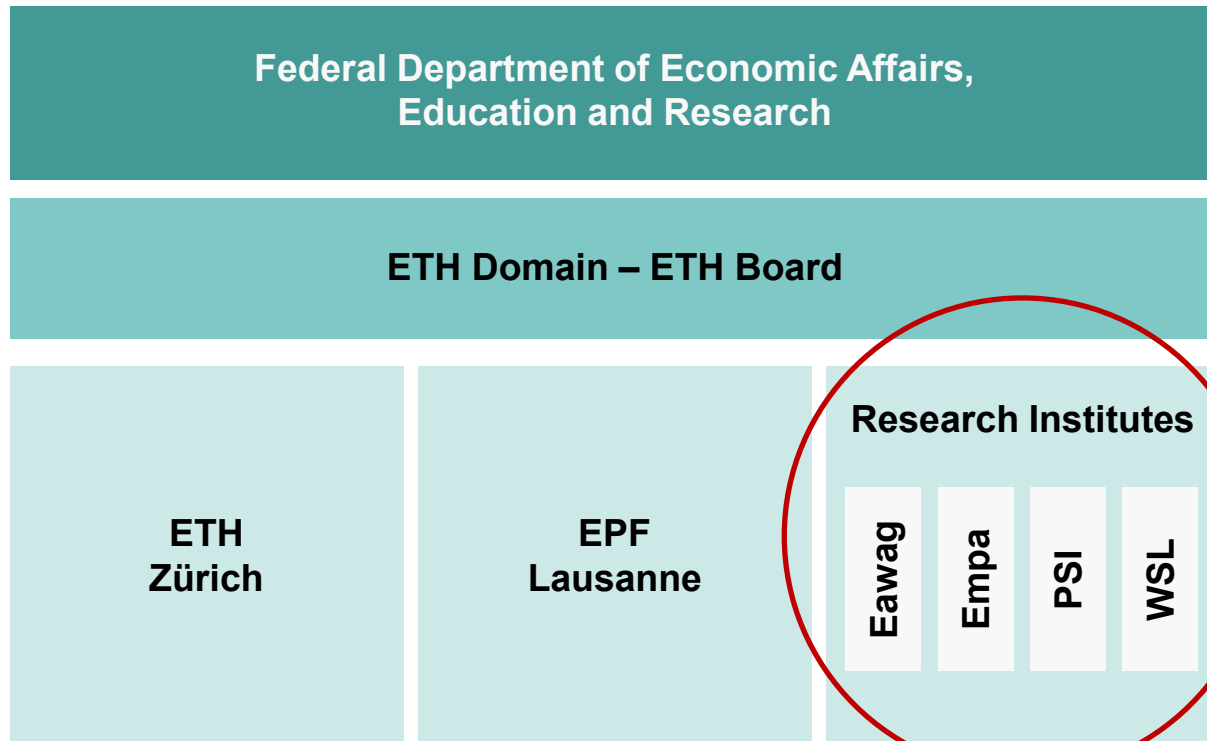
Lothar Nunnenmacher, Frank Hösli, Ellen Knappe

Lib4RI – Library for the Research Institutes within the ETH Domain:  
Eawag, Empa, PSI & WSL



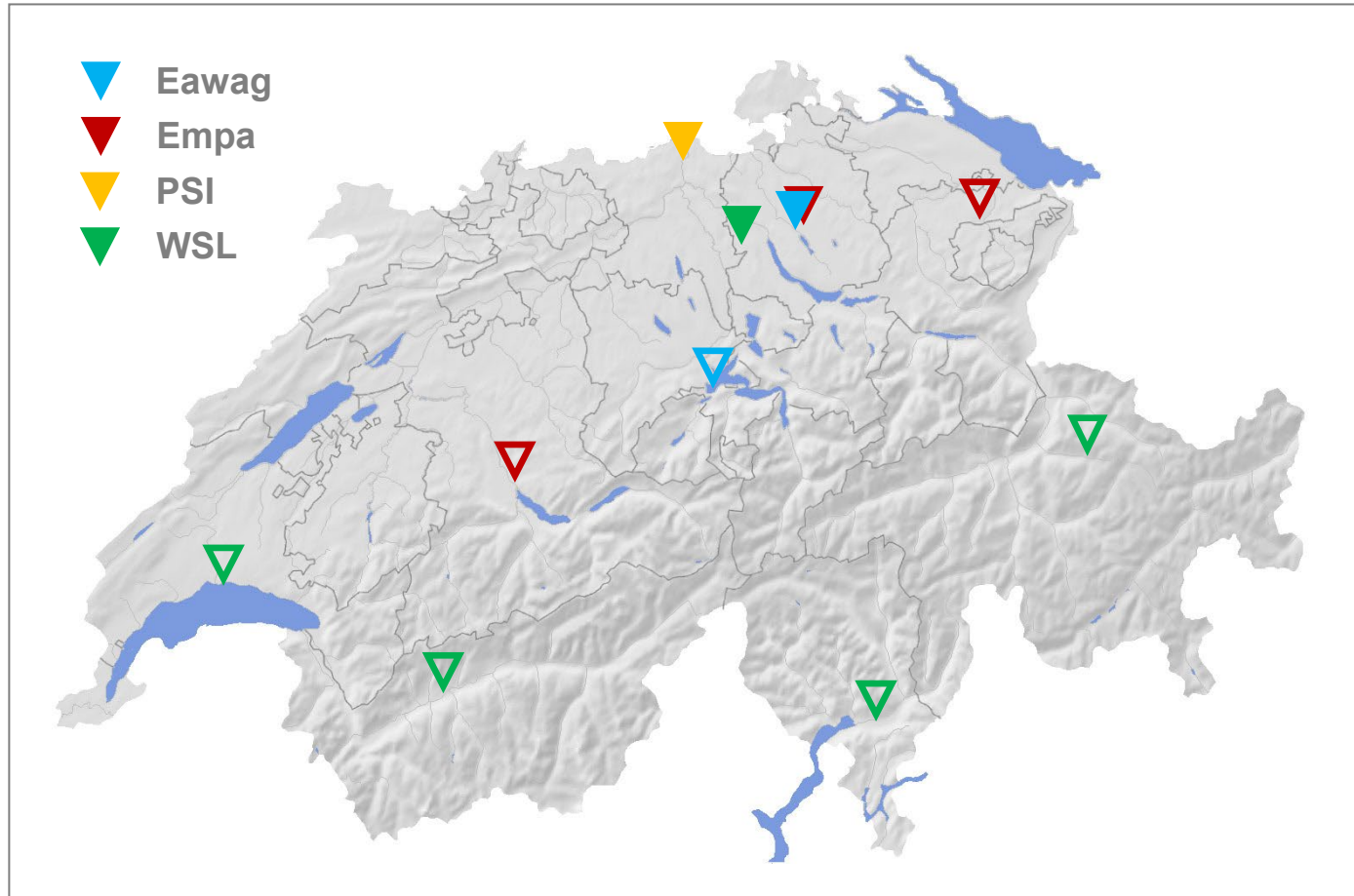
# Lib4RI – what's that?

## Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL



- Eawag – Swiss Federal Institute of Aquatic Science and Technology
- Empa – Swiss Federal Laboratories for Materials Science and Technology
- PSI - Paul Scherrer Institute (natural and engineering sciences)
- WSL – Swiss Federal Institute for Forest, Snow and Landscape Research

## The four Research Institutes within the ETH Domain



**4'308 FTE Mitarbeitende**  
**1'474 FTE Forschende**  
**658 FTE Doktoranden**

**4'438 Publikationen / Jahr**

Data as of 31.12.25



🔍 Search articles, books, journals ☆ including Open Access information ☆ & more

Library for the Research Institutes within the ETH Domain: Eawag, Empa, PSI & WSL

Lib4RI is the joint «Library for the Research Institutes within the ETH Domain: [Eawag](#), [Empa](#), [PSI](#) & [WSL](#)». As a scientific library, we provide all affiliates of the four institutes at their 11 research sites with extensive access to literature and technical information for research, teaching, and consulting. Furthermore, we offer a broad range of services surrounding the publication process.

## Lib4RI News

27.04.2026

### Research Data Conference (RDC) 2026

Lib4RI is proud to be part of the organisation committee of the Research Data Conference (RDC) 2026. It will take

30.03.2026

### New Tools page

Whether you're just starting a research project or putting the finishing touches on a publication, finding the right tool at the right time can make all the

16.03.2026

### Lib4RI training series 2026: Essential skills for today's researchers

Spring is at our doorsteps – and with it the start of Lib4RI's training series 2026:

All News



## umfangreiches Angebot an E-Medien

48'218 Holdings e-Journals  
917'427 Holdings e-Books

## Open Access

20+ Read&Publish-Verträge  
78-93 % OA in den letzten Jahren

## komplettes institutionelles Repositorium

111'332 Publikationen  
1'189'633 Volltext-Downloads / Jahr

## kleine Bibliothek

5.89 Mio CHF Ausgaben  
16.5 FTEs Mitarbeitende



Data as of 31.12.25

# Wo suchen Forschende nach Informationen?

## Articles found by searching

Web search engine (e.g. Google or Google Scholar)	56.0 %
Electronic indexing/abstracting service (e.g. Web of Science)	22.0 %
Online journal collection (e.g. JSTOR)	13.0 %
Other	9.0 %

(vereinfacht aus Tenopir et al. 2019: <https://doi.org/10.3390/publications7010018>)



# Was bieten Bibliotheken für die Literatursuche an?

## Reading

### Bibliothekskatalog

- OPAC
- EZB / ZDB
- viele weitere Kataloge

## Reading

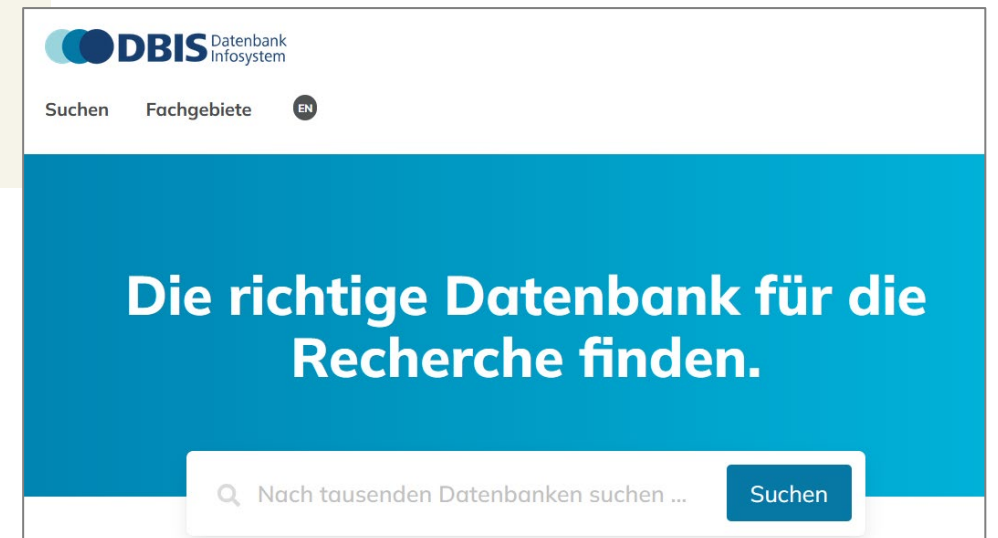
### Literaturdatenbanken

- Web of Science, Scopus, Open Alex, ...

### fachspez. Datenbanken

- PubMed, SciFinder, CAB abstracts, ...

**Ist das nicht zu viel zu kompliziert?**



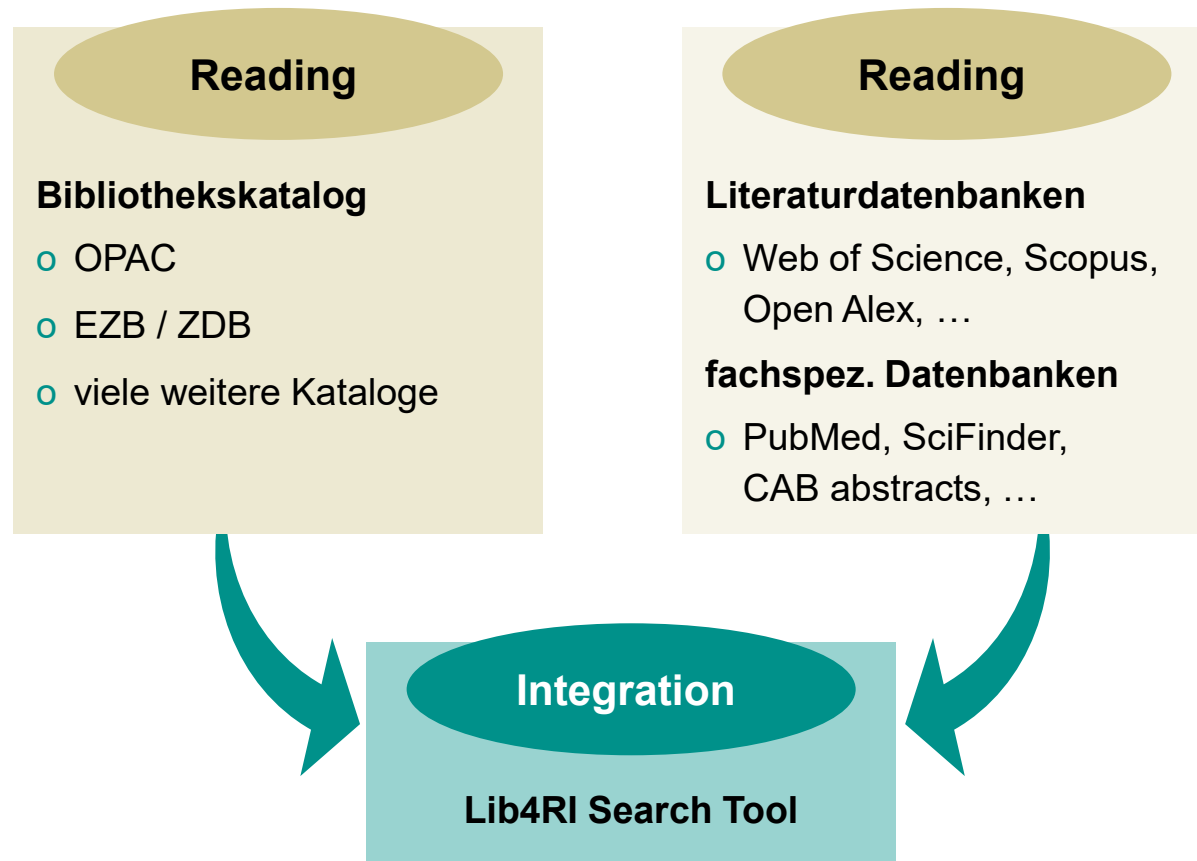
DBIS Datenbank Infosystem

Suchen Fachgebiete EN

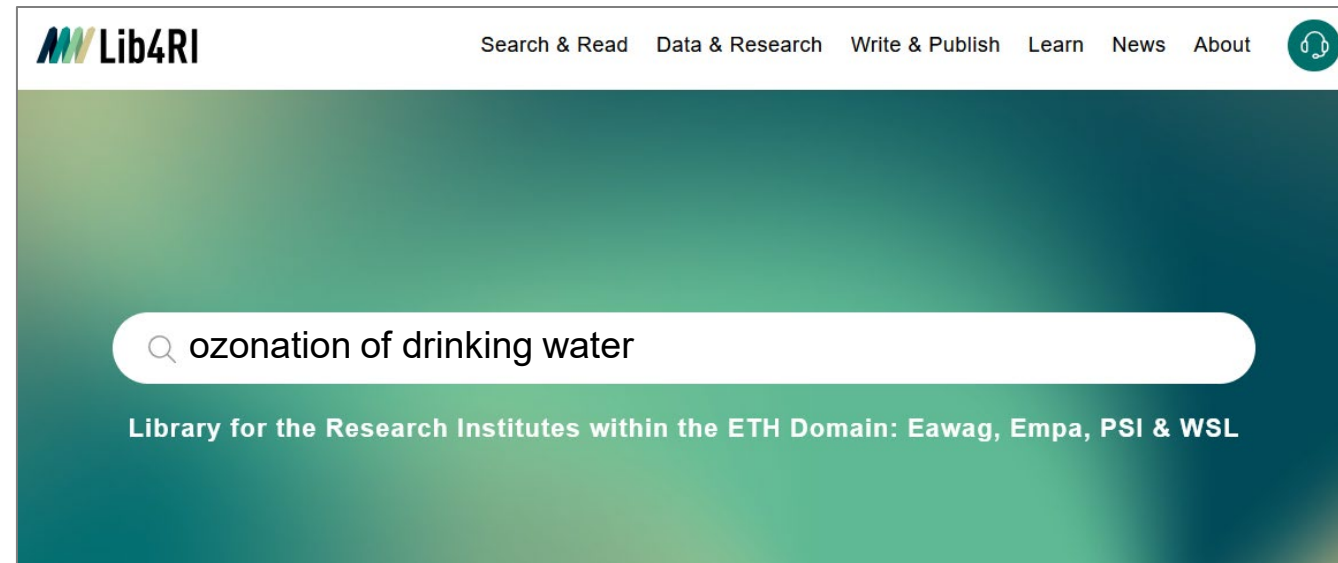
Die richtige Datenbank für die Recherche finden.

Nach tausenden Datenbanken suchen ... Suchen

# Was bieten Bibliotheken für die Literatursuche an?



# Wie wäre es mit einem gemeinsamen Sucheinstieg?



## Das Lib4RI Search Tool



BETA Version

ozonation of drinking water



Articles

Journals

Books

Other resources

Lib4RI website

Journal articles, etc.

OpenAlex

Empfehlung: OpenAlex

- 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](https://doi.org/10.1016/s0043-1354(02)00457-8).
- Gunten U von. Ozonation of drinking water: Part II. Disinfection and by-product formation in presence of bromide, iodide or chlorine 2003. [https://doi.org/10.1016/s0043-1354\(02\)00458-x](https://doi.org/10.1016/s0043-1354(02)00458-x).
- Rice RG et al. Uses of ozone in drinking water treatment 1981. <https://doi.org/10.1002/j.1551-8833.1981.tb04637.x>.
- Peter A, Gunten U von. Oxidation Kinetics of Selected Taste and Odor Compounds During Ozonation of Drinking Water 2006. <https://doi.org/10.1021/es061687b>.
- Hammes F et al. Mechanistic and kinetic evaluation of organic disinfection by-product and assimilable organic carbon (AOC) formation during the ozonation of drinking water 2006. <https://doi.org/10.1016/j.watres.2006.04.029>.

See all 3704 results (title + abstract search)

alle Ergebnisse

Extend/modify search:

ausweiten / modifizieren

- 43875 results in fulltext search
- 0 results in author search

Scopus

Bekannte Datenbanken

- Liu K et al. A core-shell structured iron-carbon heterogeneous Fenton-like catalyst achieves efficient and low-cost degradation of organic pollutants. *Applied Surface Science* 2026. <https://doi.org/10.1016/j.apsusc.2026.166602>.
- Lopes C et al. A dual approach for 4-fluorophenol degradation: Catalytic hydrodefluorination and ozonation. *Journal of Environmental Chemical Engineering* 2026. <https://doi.org/10.1016/j.jece.2025.120558>.

Institutional repository

DORA

lokale Ergebnisse

- 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>.
- Ra J, von Gunten U. Investigation of reaction mechanisms of ozone with amines: evaluation of <sup>18</sup>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>.
- Rougé V et al. Reactions of *N,O*- and *N,S*-azoles and -azolines with ozone: kinetics and mechanisms. *Environmental Science and Technology* 2025. <https://doi.org/10.1021/acs.est.5c01323>.
- Shin J et al. Ozonation of wastewater effluent by the MEMBRO<sub>3</sub>X contactor: Micropollutants abatement and bromate mitigation. *Water Research* 2025. <https://doi.org/10.1016/j.watres.2025.123853>.

Extend/modify search:

- 43875 results in fulltext search
- 0 results in author search

### Scopus ⓘ

- Liu K et al. A core-shell structured iron-carbon heterogeneous Fenton-like catalyst achieves efficient and low-cost degradation of organic pollutants. *Applied Surface Science* 2026. <https://doi.org/10.1016/j.apsusc.2026.166602>.
- Lopes C et al. A dual approach for 4-fluorophenol degradation: Catalytic hydrodefluorination and ozonation. *Journal of Environmental Chemical Engineering* 2026. <https://doi.org/10.1016/j.jece.2025.120558>.
- Alver A et al. Integrated seasonal optimization of disinfection by-product control in a full-scale drinking water treatment plant in Turkey. *Separation and Purification Technology* 2026. <https://doi.org/10.1016/j.seppur.2025.135932>.
- Jenjaiwit S et al. Performance and Pathway of 4-Chloroaniline Degradation: A Comparative Study of Electro-Peroxone, Ozonation, and Electrolysis Processes. *Applied Science and Engineering Progress* 2026. <https://doi.org/10.14416/j.asep.2025.05.009>.
- Wrzesińska K et al. Iodinated Contrast Media—From Clinical Use to Environmental Concern and Treatment Possibilities. *Molecules* 2026. <https://doi.org/10.3390/molecules31030551>.

See all 2408 results

### Web of Science ⓘ

#### Preprint archives

- ↪ arXiv ⓘ
- ↪ bioRxiv ⓘ
- ↪ engrXiv ⓘ
- ↪ medRxiv ⓘ

Empfehlung: Preprints

#### Other article resources

- ↪ Google Scholar ⓘ
- ↪ Dimensions ⓘ
- ↪ swisscovery articles ⓘ
- ↪ BASE ⓘ

weitere Suchlinks

- 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>.
- Rougé V et al. Reactions of *N,O*- and *N,S*-azoles and -azolines with ozone: kinetics and mechanisms. *Environmental Science and Technology* 2025. <https://doi.org/10.1021/acs.est.5c01323>.
- Shin J et al. Ozonation of wastewater effluent by the MEMBRO<sub>3</sub>X contactor: Micropollutants abatement and bromate mitigation. *Water Research* 2025. <https://doi.org/10.1016/j.watres.2025.123853>.

See all 245 results

Eawag: 244 results, Empa: 1 result, PSI: 0 results, WSL: 0 results



Articles

Journals

Books

Other resources

Lib4RI website

## Books

## swisscovery Lib4RI ⓘ

## Bibliothekskatalog! gefiltert

- Glaze WH et al. *Identification and occurrence of ozonation by-products in drinking water*. AWWA Research Foundation; 1993.
- Association Québécoise des Techniques de l'Eau AQ des T de l'Eau, Workshop on Drinking Water W on DW. 14e Symposium International sur le Traitement des Eaux Usées et 3e Atelier sur l'Eau Potable Hôtel Le Méridien du 12 au 14 Novembre 1991 Montréal (Québec) : compte rendu = 14th International Symposium on Wastewater Treatment and 3th Workshop on Drinking Water : proceedings 1991.
- De Zuane J. *Handbook of drinking water quality*. Van Nostrand Reinhold; 1996.
- Assembly of Life Sciences Safe Drinking Water Committee A of LS . SDWC, National Research Council . Commission on Life Sciences. Safe Drinking Water Committee. NRC . C on LSSDWC. *Drinking water and health*. National Academy of Sciences; 1977.
- K Clive Thompson KC et al. *Disinfection by-products in drinking water*. Royal Society of Chemistry; 2016.

See all 64 results

alle Ergebnisse

Extend search:

- 114 results in all Swiss libraries
- 614 results including book chapters

ausweiten / modifizieren

## Other book resources

## weitere Suchlinks

- WorldCat ⓘ
- Karlsruher Virtueller Katalog (KVK, German databases) ⓘ
- Google Books ⓘ
- Directory of Open Access Books (DOAB) ⓘ

## Reference works

- Britannica ⓘ

## Institutional repository

## DORA books ⓘ

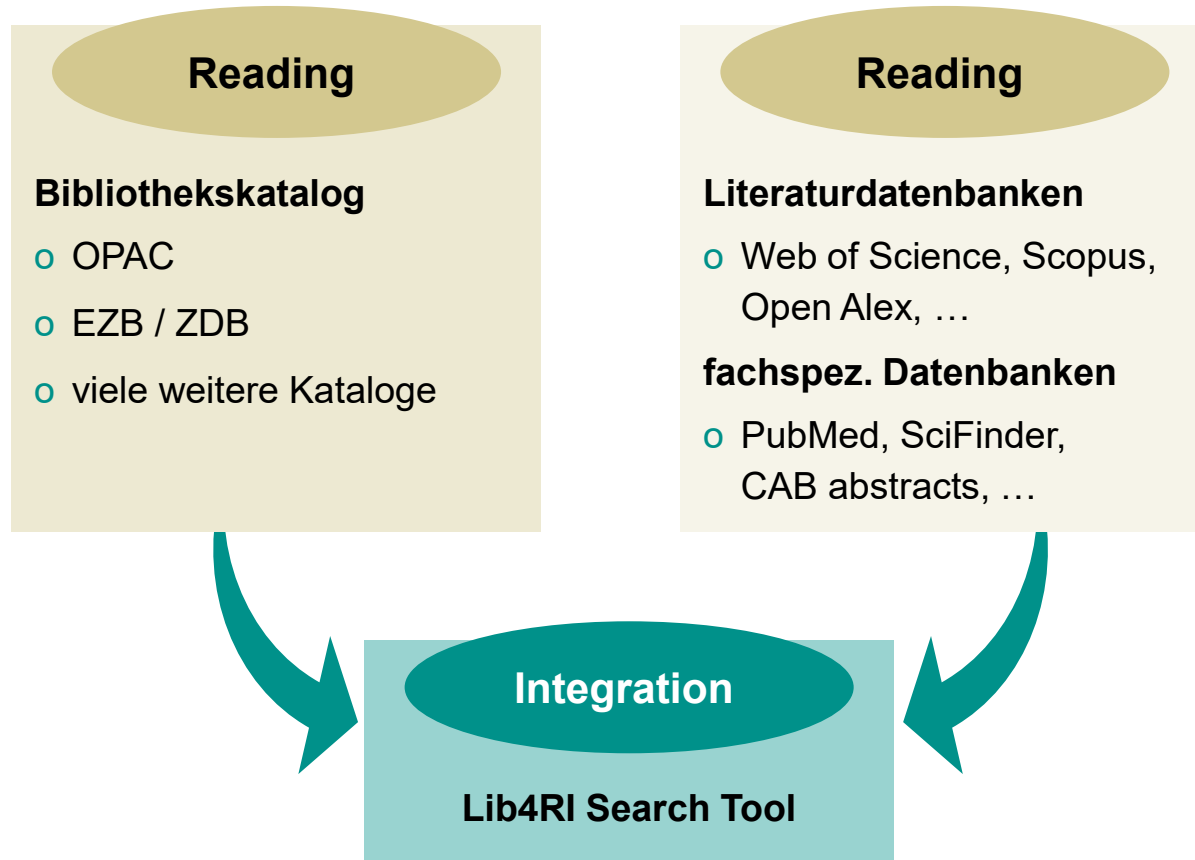
## lokale Ergebnisse

- Boudenne J-L et al. Relevance of inputs of disinfection by-products into the marine environment 2025.
- Manasfi T. Ozonation in drinking water treatment: an overview of general and practical aspects, mechanisms, kinetics, and byproduct formation. *Analysis and Formation of Disinfection Byproducts in Drinking Water* 2021. <https://doi.org/10.1016/bs.coac.2021.02.003>.
- Bourgin M et al. Compilation of kinetics and mechanisms for the oxidative transformation of organic substances 2015.
- Linden KG et al. Advanced oxidation and transformation of organic contaminants 2015.
- McArdell CS et al. Decision basis for implementation of oxidation technologies 2015.

See all 21 results

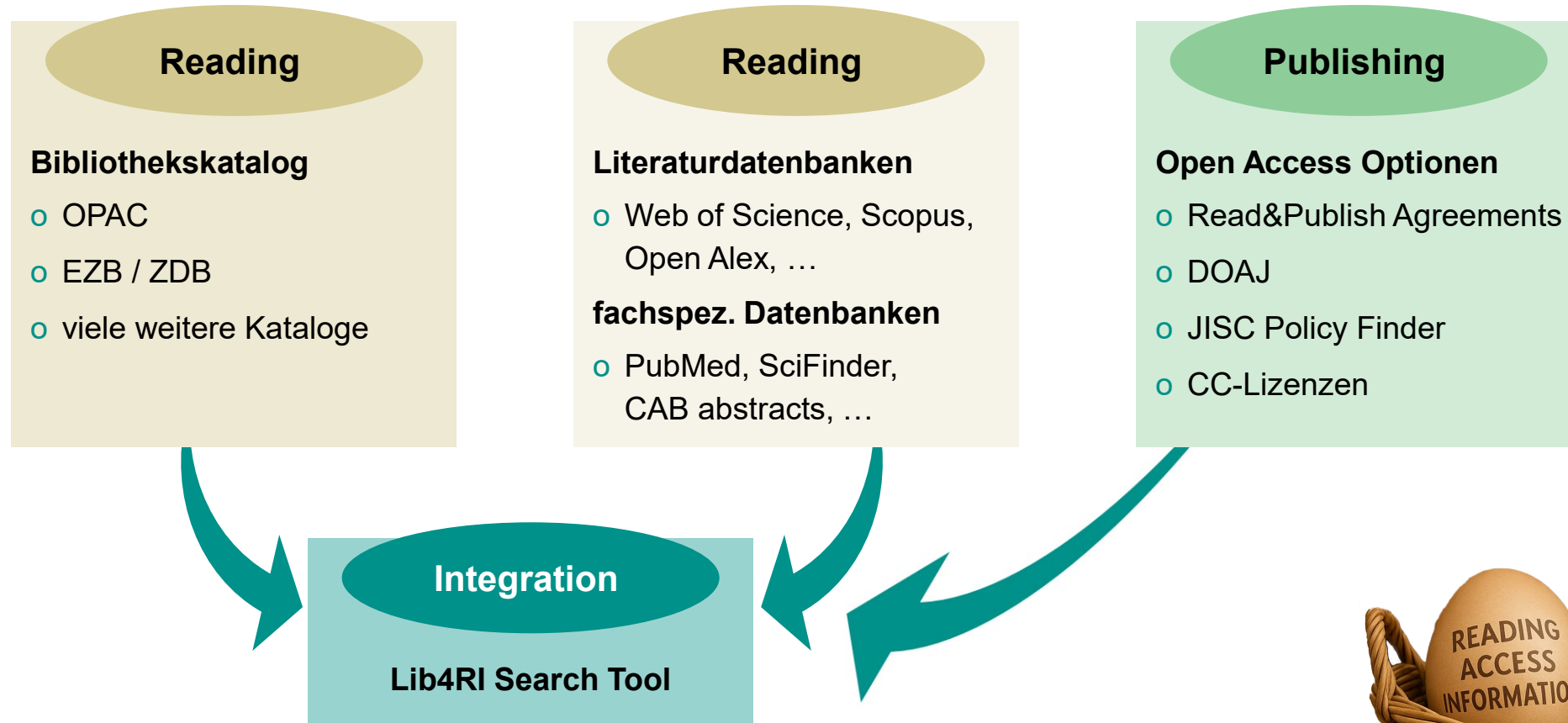
Eawag: 20 results, Empa: 1 result, PSI: 0 results, WSL: 0 results

# ... ein zusätzlicher Sucheinstieg für Infos zu Open Access?



The screenshot shows the 'oa.finder' website, part of the 'open access network'. The main heading is 'Where to publish open access?'. Below this are three dropdown menus: 'My publication type' (set to 'Journal article'), 'My role' (set to 'Corresponding/Submitting author'), and 'My organization' (with a placeholder 'Start to type name of organization'). A 'Go!' button is located at the bottom right of the search area.

## ... ein zusätzlicher Sucheinstieg für Infos zu Open Access?





Articles

Journals

Books

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



+

Environmental Nanotechnology, Monitoring and Management



+

Frontiers in Nanotechnology



+

International Journal of Nanotechnology



+

See all 14 results

Extend search:

- 102 results for all journals in Lib4RI
- 145 results for all journals in Swiss libraries

## Glossary

**Lib4RI Open Access agreements:** Journals for which an agreement exists allow corresponding authors affiliated with Eawag, Empa, PSI or WSL to publish Open Access without paying an APC. Note that some restrictions apply. More information [here](#).

**Green Open Access:** Where the accepted version is deposited in an online repository that makes it accessible to everyone. This route to Open Access does not require payment of an APC by the author or their institution. More information [here](#).

**Gold Open Access (Full Open Access Journal):** A journal or publishing platform that publishes articles exclusively Open Access. More information [here](#).

**Accepted version:** The accepted version (or author's accepted manuscript) is the manuscript after peer review, accepted for publication, but without the final typesetting by the publisher. Accepted versions of articles can usually be made publicly available in DORA after an embargo period (Green Open Access). More information [here](#).

**APC:** An **Article Processing Charge** (APC) is a fee paid to a publisher to cover the costs associated with publishing the article Open Access.

**Embargo:** In the context of Open Access, embargo refers to the time that must elapse after publication before an accepted version of an article can be made publicly available (Green



Articles

Journals

Books

Other resources

Lib4RI website

Most relevant journals

Open all details

Nanotechnology



Nature Nanotechnology



- Publisher: Nature Research
  - Journal homepage
- Publication period: 2006-
  - Available online (2006-)
  - Print available at Lib4RI Eawag-Empa
- Details:
  - ISSN: 1748-3387
  - E-ISSN: 1748-3395
  - Journal Impact Factor: 34.9 (details at JCR)
- Publications in DORA:
  - PSI: 22 articles, Empa: 18 articles, Eawag: 7 articles

Lib4RI Open Access Agreement

- Due to ongoing negotiations, OA publishing will be unavailable in 2026 until an agreement is reached
- Green Open Access recommended
- Licence: CC BY
- Get more information on this agreement

If agreement not applicable, consider option below:

Green Open Access

- Accepted Version
  - Embargo: 6 months
  - Licence: Publisher's Bespoke License
- Further options at Jisc open policy finder

Glossary

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Open Access Agreement?

- Zeitschrift inkludiert?
- Quota?
- für welchen Zeitraum?

Gold Open Access (Full Open Access Journal): A journal or publishing platform that publishes articles exclusively Open Access. More information here

Optionen für Green Open Access?

- welche Version des Artikels?
- Embargo?
- relevante Optionen aus Open Policy Finder

(Green Open Access). More information here.

Beilstein Journal of Nanotechnology



- Publisher: Beilstein-Institut
  - Journal homepage
- Publication period: 2010-
  - Available online (2010-)
- Details:

Gold Open Access

- No APC required (DOAJ), verify on journal homepage
- Licence: CC BY
- Further details at DOAJ

Gold Open Access Journal?

- Gebühr (APC)?
- Bezahlungsmöglichkeiten (OA Fund, SNSF)?

version of an article can be made publicly available (Green

most relevant information, links to more information, i button for explanations

Most relevant journals

Nanotechnology

Nature Nanotechnology

- Publisher: Nature Research
  - Journal homepage
- Publication period: 2006-
  - Available online (2006-)
  - Print available at Lib4RI Eawag-Empa
- Details:
  - ISSN: 1748-3387
  - E-ISSN: 1748-3395
  - Journal Impact Factor: 34.9 (details at JCR)
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  - Embargo: 6 months
  - Licence: Publisher's Bespoke License
- Further options at Jisc open policy finder

Gold Open Access

- No APC required (DOAJ), verify on journal homepage
- Licence: CC BY
- Further details at DOAJ

Beilstein Journal of Nanotechnology

- Publisher: Beilstein-Institut
  - Journal homepage
- Publication period: 2010-
  - Available online (2010-)
- Details:

This screenshot shows the Lib4RI search results for 'Nature Research'. A callout box highlights the 'Nature Research' entry, which includes a warning about the end of the agreement with Nature on 31 December 2025. It also provides links for further information and lists general information and eligible journals.

This screenshot shows the Lib4RI 'Green Open Access' page. A callout box explains that Green Open Access involves depositing the accepted version in an online repository. The page also includes a section on 'Submit the correct version of your article to DORA' and a flowchart showing the stages from 'Submitted manuscript' to 'Published manuscript'.



Articles

Journals

Books

Other resources

Lib4RI website

## Anzahl Publikationen im IR

## Most relevant journals

Open all details

Nanotechnology	94		+
Nature Nanotechnology	47		+
Beilstein Journal of Nanotechnology	28		+
Journal of Nanoscience and Nanotechnology	18		+
Nanomedicine: Nanotechnology, Biology and Medicine	6		+
IEEE Transactions on Nanotechnology	3		+
e-Journal of Surface Science and Nanotechnology	2		+
Environmental Nanotechnology, Monitoring and Management	1		+
Frontiers in Nanotechnology	1		+
International Journal of Nanotechnology	1		+

See all 14 results

Extend search:

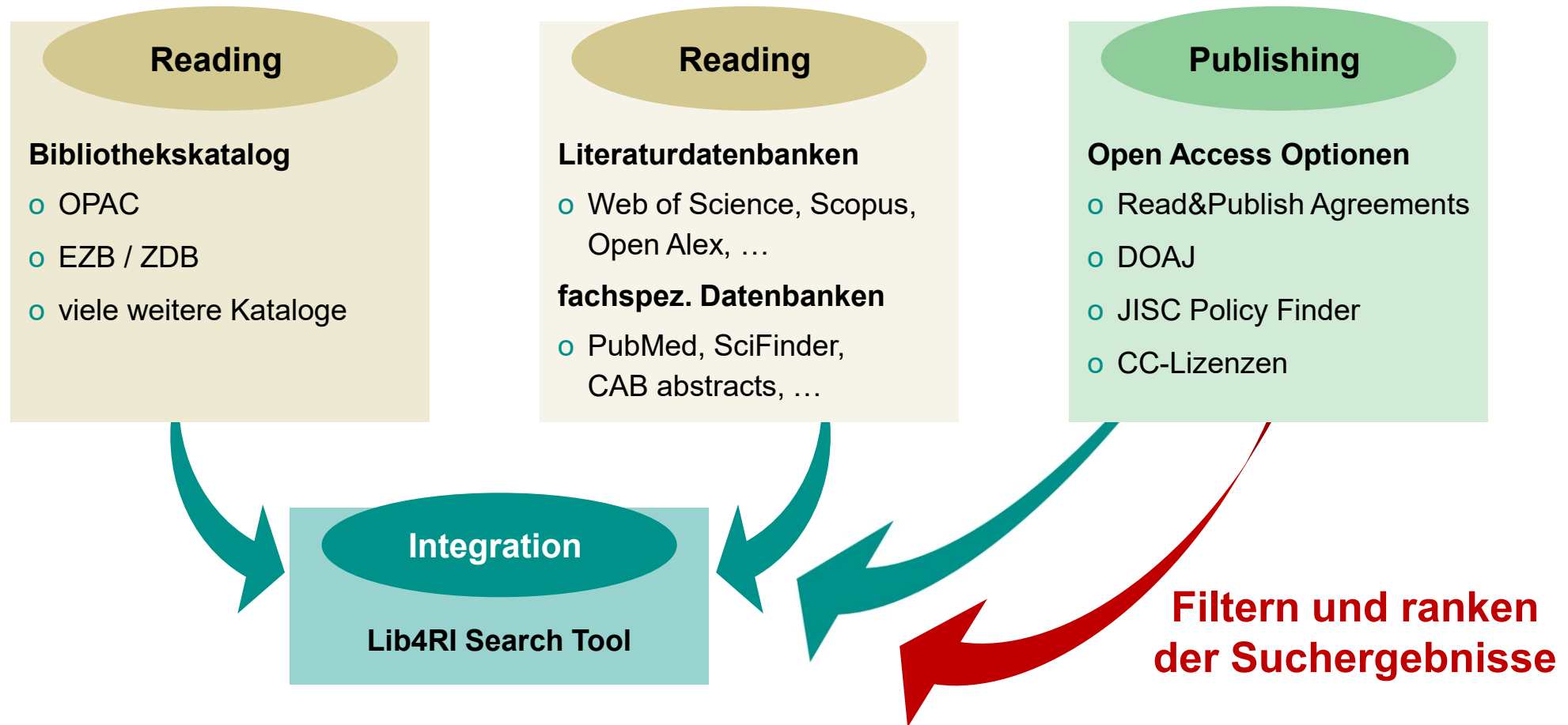
- 102 results for all journals in Lib4RI
- 145 results for all journals in Swiss libraries

Erweitern der Suche

## «Most relevant journals»?

- Zeitschriften, in denen unsere Forschenden publizieren
- Institutionelles Repositorium als Quelle der Information
- Anzahl Artikel im Institutionellen Repositorium (IR) als Kriterium der Relevanz für Filterung und Ranking
- “wisdom of the crowd”
- weniger Rauschen
- Ausweitung auf alle Zeitschriftentitel im Bibliothekskatalog möglich (inkl. DOAJ)

## ... ein zusätzlicher Sucheinstieg für Infos zu Open Access?



Articles

Journals

Books

Other resources

Lib4RI website

reziprok: Link zum IR

## Most relevant journals

Open all details 

## Nanotechnology



## Nature Nanotechnology



## ○ Publisher: Nature Research

- Journal homepage

## ○ Publication period: 2006-

- Available online (2006-)
- Print available at Lib4RI Eawag-Empa

## ○ Details:

- ISSN: 1748-3387
- E-ISSN: 1748-3395
- Journal Impact Factor: 34.9 (details at JCR)


## ○ Publications in DORA:

- PSI: 22 articles, Empa: 18 articles, Eawag: 7 articles

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- Licence: CC BY
- Get more information on this agreement

If agreement not applicable, consider option below:

 Green Open Access 

- Accepted Version
  - Embargo: 6 months
  - Licence: Publisher's Bespoke License
- Further options at Jisc open policy finder

## Beilstein Journal of Nanotechnology




## ○ Publisher: Beilstein-Institut

- Journal homepage


## ○ Publication period: 2010-

- Available online (2010-)

## ○ Details:

 Gold Open Access 

- No APC required (DOAJ), verify on journal homepage
- Licence: CC BY
- Further details at DOAJ

Glossary 

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**Accepted version:** The accepted version (or author's accepted manuscript) is the manuscript after peer review, accepted for publication, but without the final typesetting by the publisher. Accepted versions of articles can usually be made publicly available in DORA after an embargo period (Green Open Access). More information [here](#).

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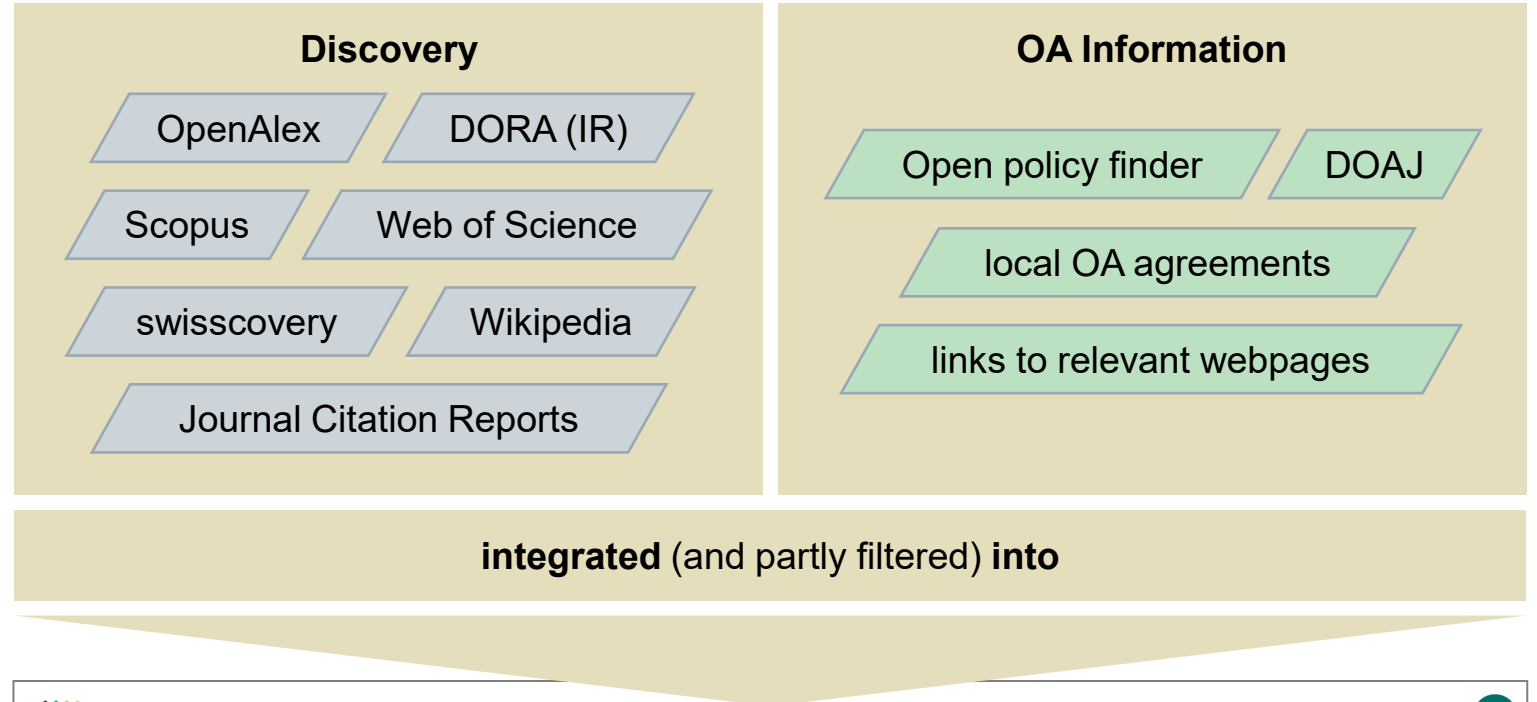
**Embargo:** In the context of Open Access, embargo refers to the time that must elapse after publication before an accepted version of an article can be made publicly available (Green

## Implementierung: APIs statt monolithische Datenbank

- Drupal für die Boxen
- JavaScript für Inhalt der Boxen
- Infos von externen Systemen via APIs

## Lokale Infos: SQL-Datenbank

- Excel-Datei für die Read&Publish-Agreements
- Anzahl Publikationen aus dem institutionellen Repositorium
- Code ist Open Source auf Codeberg: <https://codeberg.org/Lib4RI>



The screenshot shows the Lib4RI website interface. The search bar contains the query "ozonation of drinking water". The results are displayed in two columns:

- Journal articles, etc. (OpenAlex):**
  - 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](https://doi.org/10.1016/s0043-1354(02)00457-8).
  - Gunten U von. Ozonation of drinking water: Part II. Disinfection and by-product formation in presence of bromide, iodide or chlorine 2003. [https://doi.org/10.1016/s0043-1354\(02\)00458-x](https://doi.org/10.1016/s0043-1354(02)00458-x).
  - Rice RG et al. Uses of ozone in drinking water treatment 1981. <https://doi.org/10.1002/j.1551-8833.1981.tb04637.x>.
  - Peter A, Gunten U von. Oxidation Kinetics of Selected Taste and Odor Compounds During
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  - 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>.
  - Ra J, von Gunten U. Investigation of reaction mechanisms of ozone with amines: evaluation of <sup>18</sup>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>.

# Herausforderungen

## Wir nutzen APIs

- API-Geschwindigkeit ist sehr unterschiedlich (z.B. ist Bibliothekskatalog / Alma langsam)
- Fehler müssen allenfalls im Quellsystem korrigiert werden (z.B. APCs in DOAJ oft veraltet)

**Environmental Research Letters**

- Publisher: IOP Publishing
  - [Journal homepage](#)
- Publication period: 2006-
  - Available online (2006-)
- Details:
  - ISSN: 1748-9326
  - ISSN: 1748-9326
  - Peer-reviewed
  - Journal Impact Factor: 5.6 (details at JCR)
- Publications in DORA:
  - WSL: 60 articles, Eawag: 21 articles, PSI: 8 articles, Empa: 7 articles

**Lib4RI Open Access Agreement**

- Full APC funding: 2025-2027
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**Gold Open Access** ⓘ

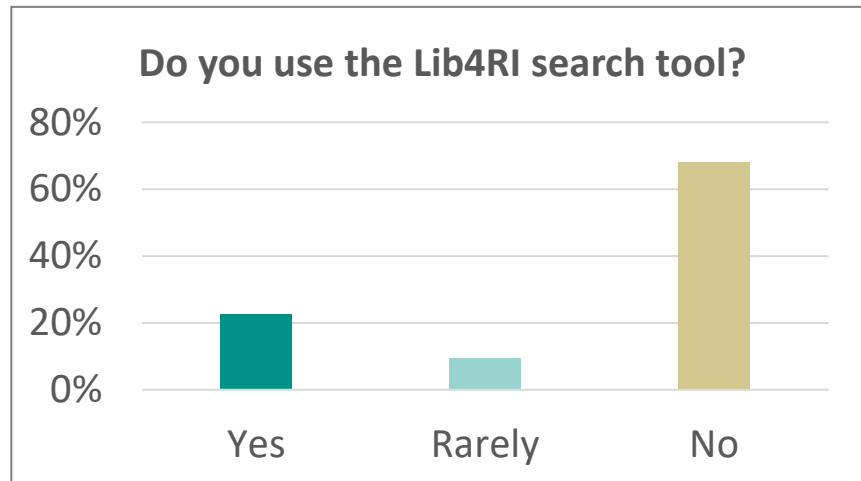
- **APC: 2820 USD (DOAJ)** [verify on journal homepage](#)
  - Check Lib4RI Fund (if APC < CHF 2500)
  - Check SNSF Fund (if project is SNSF funded)
- Licence: CC BY
- [Further details at DOAJ](#)

	GBP	EUR	USD
Article publication charge*	£2350	€2785	\$3230

# Herausforderungen

## Forschende erwarten diesen Service nicht ...

- Kleine Umfrage  
(WSL, Senior Scientists and Postdocs, n=56)

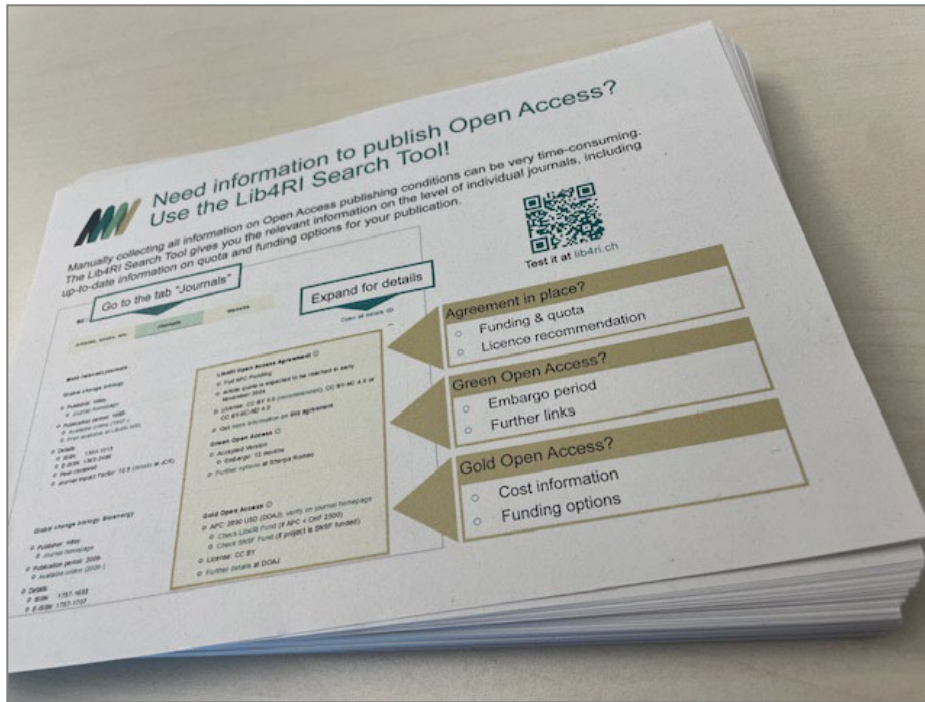


## ... aber sie schätzen es, wenn sie es gefunden haben

- «I am very enthusiastic about the new search tool»
- « ... the better integration of OA data is generally very helpful when selecting a journal and publishing strategy»
- « ... it was quite self-explanatory»
- «Generally all very useful. Top marks!»

## Marketing ...

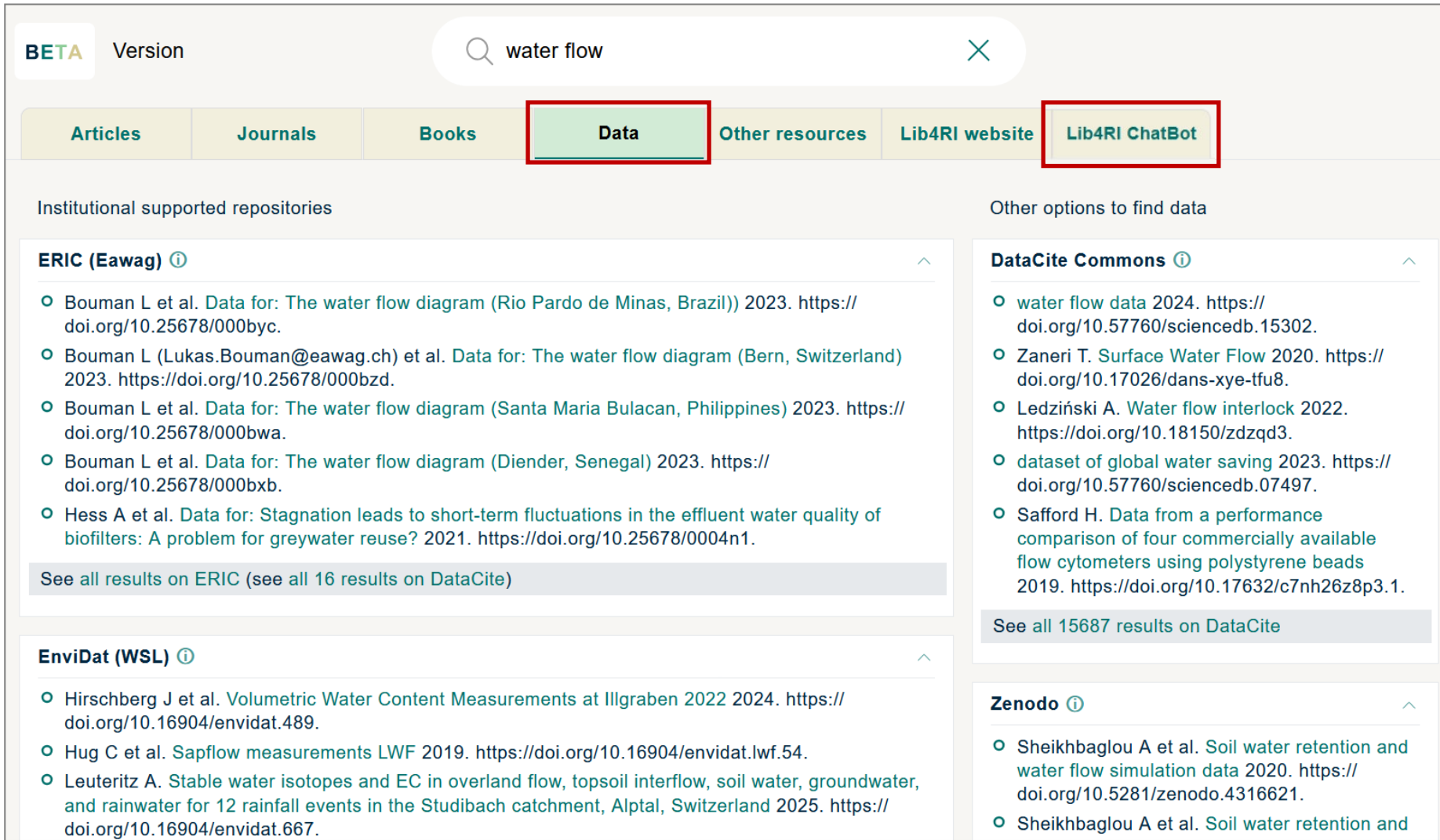
- Einführungen, Trainings, E-Mail footer, ...
- «Can I publish OA in the journal xyz?»  
-> Wir senden einen Link
- Flyer



## Wir haben einen relevanten Service, den wir anbieten können

- Wir adressieren reale Bedürfnisse der Forschenden
- Es hilft, bestimmte Ressourcen bekannt zu machen
- Es sorgt dafür, dass die Bibliothek relevant bleibt
- Es hilft, den OA-Anteil der Forschenden / der Institution zu erhöhen

# Weitere Entwicklungen: a look into our kitchen



The screenshot shows the Lib4RI search interface with the search term 'water flow'. The navigation bar includes tabs for Articles, Journals, Books, Data, Other resources, Lib4RI website, and Lib4RI ChatBot. The 'Data' and 'Lib4RI ChatBot' tabs are highlighted with red boxes. Below the navigation bar, there are two main sections: 'Institutional supported repositories' and 'Other options to find data'. The 'Institutional supported repositories' section includes ERIC (Eawag) and EnviDat (WSL). The 'Other options to find data' section includes DataCite Commons and Zenodo. Each repository section lists search results with titles, authors, and DOIs.

**BETA** Version

water flow

Articles Journals Books **Data** Other resources Lib4RI website **Lib4RI ChatBot**

**Institutional supported repositories**

**ERIC (Eawag)**

- Bouman L et al. Data for: The water flow diagram (Rio Pardo de Minas, Brazil) 2023. <https://doi.org/10.25678/000byc>.
- Bouman L (Lukas.Bouman@eawag.ch) et al. Data for: The water flow diagram (Bern, Switzerland) 2023. <https://doi.org/10.25678/000bzd>.
- Bouman L et al. Data for: The water flow diagram (Santa Maria Bulacan, Philippines) 2023. <https://doi.org/10.25678/000bwa>.
- Bouman L et al. Data for: The water flow diagram (Diender, Senegal) 2023. <https://doi.org/10.25678/000bxb>.
- Hess A et al. Data for: Stagnation leads to short-term fluctuations in the effluent water quality of biofilters: A problem for greywater reuse? 2021. <https://doi.org/10.25678/0004n1>.

See all results on ERIC (see all 16 results on DataCite)

**EnviDat (WSL)**

- Hirschberg J et al. Volumetric Water Content Measurements at Illgraben 2022 2024. <https://doi.org/10.16904/envidat.489>.
- Hug C et al. Sapflow measurements LWF 2019. <https://doi.org/10.16904/envidat.lwf.54>.
- Leuteritz A. Stable water isotopes and EC in overland flow, topsoil interflow, soil water, groundwater, and rainwater for 12 rainfall events in the Studibach catchment, Alptal, Switzerland 2025. <https://doi.org/10.16904/envidat.667>.

**Other options to find data**

**DataCite Commons**

- water flow data 2024. <https://doi.org/10.57760/sciencedb.15302>.
- Zaneri T. Surface Water Flow 2020. <https://doi.org/10.17026/dans-xye-tfu8>.
- Ledziński A. Water flow interlock 2022. <https://doi.org/10.18150/zdzqd3>.
- dataset of global water saving 2023. <https://doi.org/10.57760/sciencedb.07497>.
- Safford H. Data from a performance comparison of four commercially available flow cytometers using polystyrene beads 2019. <https://doi.org/10.17632/c7nh26z8p3.1>.

See all 15687 results on DataCite

**Zenodo**

- Sheikhbaglou A et al. Soil water retention and water flow simulation data 2020. <https://doi.org/10.5281/zenodo.4316621>.
- Sheikhbaglou A et al. Soil water retention and

- o weitere Ressourcen:  
Data Tab
- o Lib4RI Chatbot

[Articles](#)
[Journals](#)
[Books](#)
[Other resources](#)
[Lib4RI website](#)
[Lib4RI ChatBot](#)

Journal articles, etc.

**OpenAlex** ⓘ

- Taha HM, Janssen EM. S85 | MICROCYSTINS | Microcystins from CyanoMetDB 2021. <https://doi.org/10.5281/zenodo.5665355>.
- Taha HM, Janssen EM. S85 | MICROCYSTINS | Microcystins from CyanoMetDB 2021. <https://doi.org/10.5281/zenodo.5665356>.

[See all 2 results \(title + abstract search\)](#)

Extend/modify search:

- 586 results in fulltext search
- 0 results in author search

**Scopus** ⓘ

- 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>.

[See all 8 results](#)
**Web of Science** ⓘ

Institutional repository

**DORA** ⓘ

- Rougé V et al. Degradation of toxins and metabolites of cyanobacteria and micropollutants during biological sand filtration. *Environmental Science and Technology* 2026. <https://doi.org/10.1021/acs.est.5c16532>.
- 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>.
- 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. <https://doi.org/10.1021/acs.est.5c05763>.
- 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>.
- 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>.
- 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>.
- Pittino F et al. Cyanobacteria: extreme environments and toxic metabolites. *Chimia* 2022. <https://doi.org/10.2533/chimia.2022.967>.

[See all 12 results](#)

Eawag: 10 results, Empa: 0 results, PSI: 0 results, WSL: 2 results

# Integrate AI for search?

# Integrate AI for search?

024.106983.

See all 8 results

## Web of Science

- Cyanobacteria: Extreme Environments and Toxic Metabolites. *CHIMIA* 2022:967-9. <https://doi.org/10.2533/chimia.2022.967>.
- 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>.
- 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>.
- Quantification of Multi-class Cyanopeptides in Swiss Lakes with Automated Extraction, Enrichment and Analysis by Online-SPE HPLC-HRMS/MS. *CHIMIA* 2022:133-44. <https://doi.org/10.2533/chimia.2022.133>.
- Environmental Mixture Toxicity of Guanitoxin and Organophosphates in Zebrafish: from Developmental and Neurobehavioral Phenotypes to Transcriptomic Responses. *ENVIRONMENTAL SCIENCE & TECHNOLOGY* 2026:9076-92. <https://doi.org/10.1021/acs.est.5c16673>.

See all 10 results

## Other article resources

- ➔ [Google Scholar !\[\]\(486f7271be92f201ddb954facdb98607\_img.jpg\)](#)
- ➔ [Dimensions !\[\]\(b0ff4479e585f18974ffc8a3e4f72a8b\_img.jpg\)](#)
- ➔ [swisscovery articles !\[\]\(5ef981751911a0bfb4b369ea9c8fb3d7\_img.jpg\)](#)
- ➔ [BASE !\[\]\(3478bb910e7ee2c18931a76e6f2146bd\_img.jpg\)](#)

See all 12 results

Eawag: 10 results, Empa: 0 results, PSI: 0 results, WSL: 2 results

## See also: Lib4RI ChatBot (alpha edition)

Search Query

janssen cyanotoxin

Search

Apertus

Gemini

Answer:

Cyanotoxins, such as microcystins and anabaenopeptins, are toxic metabolites produced by cyanobacteria. These toxins can accumulate in aquatic organisms and pose significant threats to human health and ecosystems. Studies have shown that cyanotoxins can be ingested through contaminated "seafood" (e.g., fish, shellfish), leading to potential health risks for consumers. The accumulation of cyanotoxins in freshwater "seafood" can be influenced by various factors, including the presence of cyanobacterial blooms, toxin production, and bioaccumulation in aquatic organisms.

To address these risks, guidelines have been proposed for seafood consumption and compared to guidelines for drinking water. However, the likelihood of bioaccumulation of cyanotoxins in seafood is often underestimated, and risk assessments should consider the partitioning of exposure between drinking-water and food.

The impact of cyanotoxins on aquatic organisms, including freshwater microcrustaceans, has also been studied. For example, research has shown that cyanotoxins can cause lethal and sublethal effects on these organisms, impairing their mobility and contributing to ecosystem health risks.

In summary, the effects of cyanotoxins on aquatic ecosystems and human health are significant and require continued research and monitoring to mitigate these risks.

**Note:** The AI did not properly cite sources. Here are the relevant papers found:

[0] Elisabeth M.L. Janssen (2025). *Seasonality of cyanobacteria and eukaryotes in Lake Geneva and the impacts of cyanotoxins on growth of the model ciliate Tetrahymena pyriformis*. DOI: N/A. [DORA record](#)

[1] Gretchen D. Onstad, Sabine Strauch, Urs von Gunten (2007). *Selective oxidation of key functional groups in cyanotoxins during drinking water ozonation*. DOI: N/A. [DORA record](#)

[2] Gretchen D. Onstad, Urs von Gunten (2007). *Oxidative elimination of cyanotoxins: comparison of ozone, chlorine, chlorine dioxide and permanganate*. DOI: N/A. [DORA record](#)

[3] Xuejian Wang, Simon N. Wullschleger, Martin R. Jones, Marta Reyes, Raphael Bossart, Francesco Pomati, Elisabeth M.L. Janssen (2024). *Tracking extensive portfolio of cyanotoxins in five-year lake survey and identifying indicator metabolites of cyanobacterial taxa*. DOI: N/A. [DORA record](#)

## Testinstallation

Retrieval Augmented Generation, basierend auf Feynbot:

Montejo-Ráez A, 2025: Feynbot: Unlocking conversational access to High Energy Physics literature. OAI14 Workshop, <https://doi.org/10.5281/zenodo.17609391>

# Das Lib4RI Search Tool

## Reading

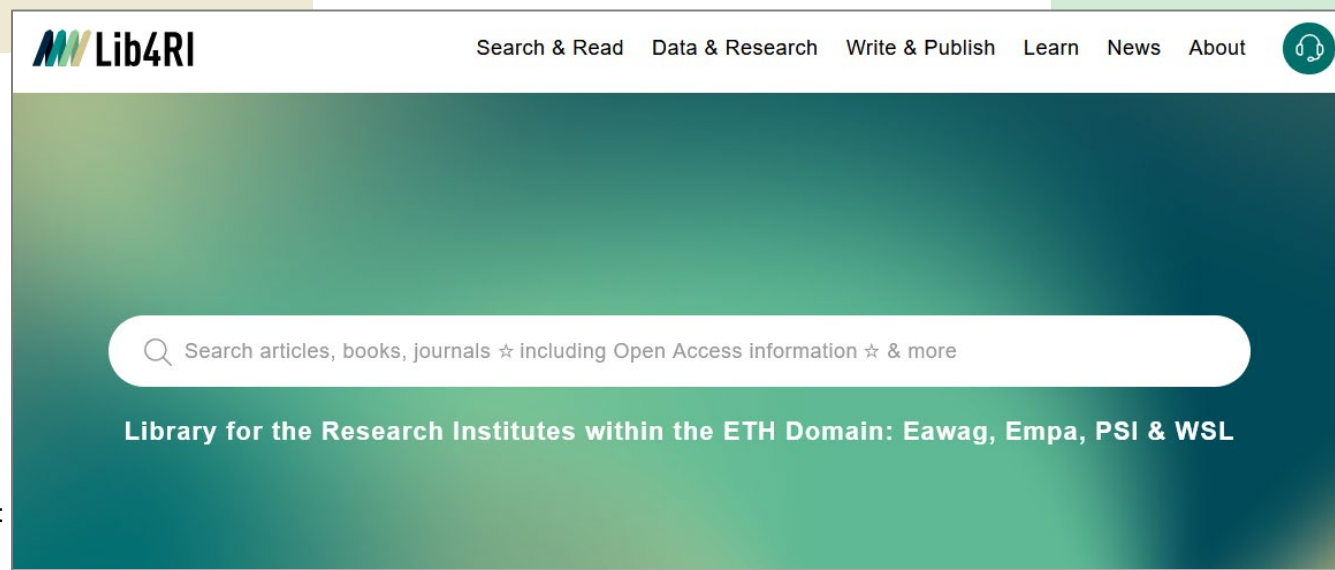
- integriert verschiedenste Ressourcen
- stellt wichtige Informationen heraus
- Erweiterungen / Such-Links zu weitergehenden Informationen

## Implementierung

- flexibel zu verändern
- Open Source

## Publishing

- integriert (lokale!) Open Access Optionen
- nimmt lokale Publikationen als Relevanzkriterium für die Suche



## Fragen? Diskussion!

- Probieren Sie es aus!  
<https://www.lib4ri.ch/>



- Kennen Sie andere Integrationen?
- Sind Sie an einer Nachnutzung interessiert?  
Wir sind offen für Kooperationen!
- Dr. Lothar Nunnenmacher  
[lothar.nunnenmacher@lib4ri.ch](mailto:lothar.nunnenmacher@lib4ri.ch)  
+41 58 765 53 21

