

Integrating Open Access Information into the Library Discovery System

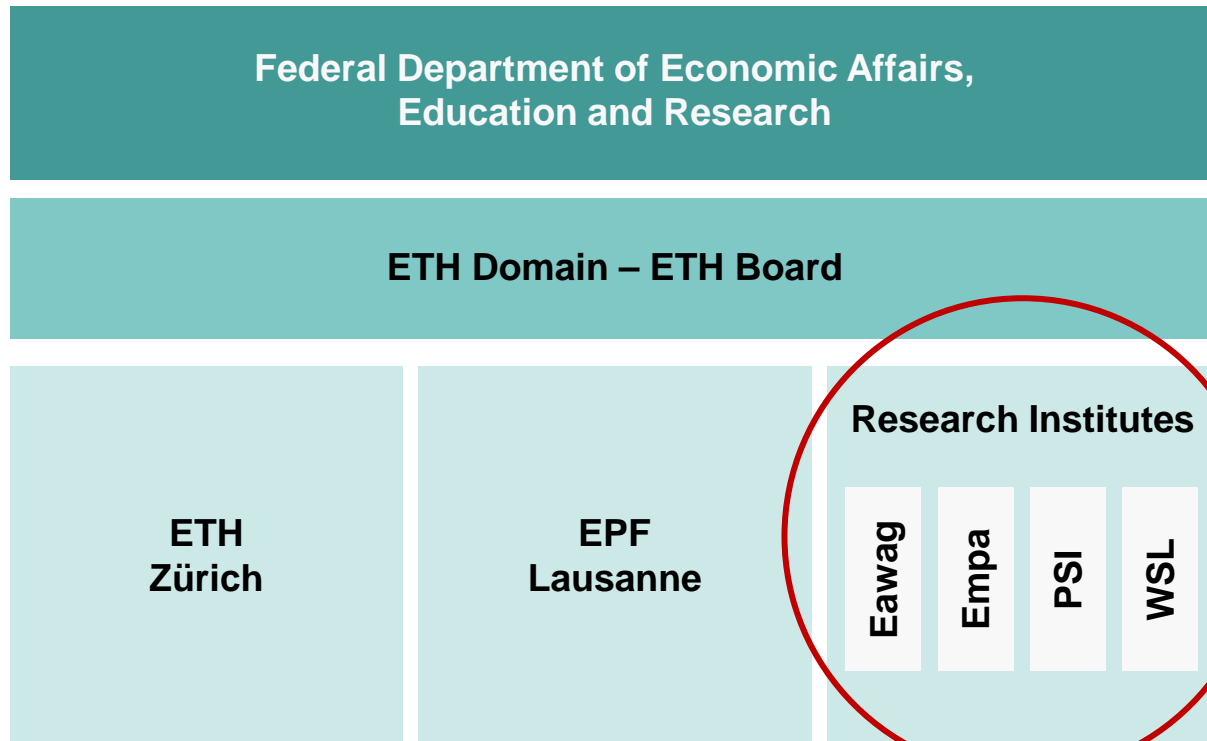
Lothar Nunnenmacher, Frank Hösli

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



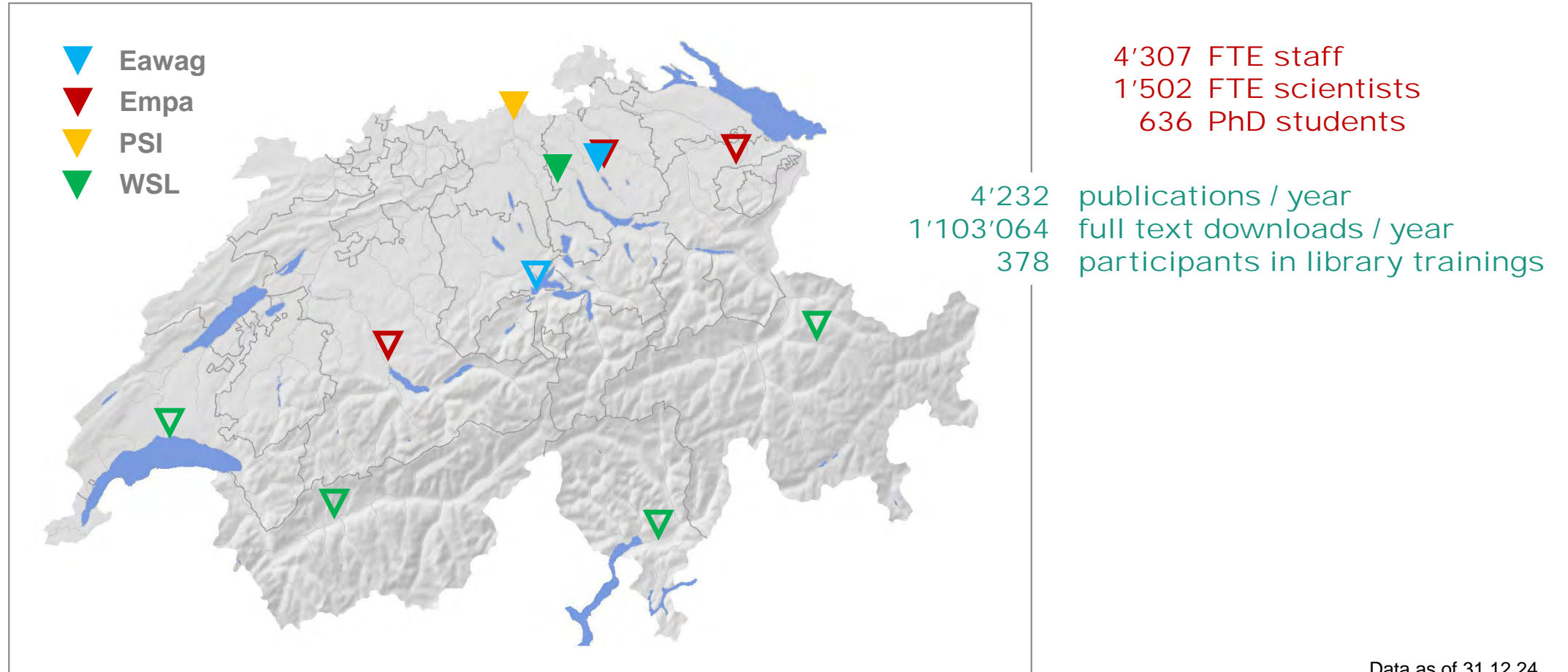
Lib4RI – what's that?

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





🔍 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

16.06.2025

Wiley negotiations – a milestone reached

16.06.2025

Call for contributions for open educational resources

26.05.2025

Research Software Engineering and Data Stewardship Career Talk –

extensive offer of e-media
51'218 holdings e-journals
801'540 holdings e-books

Open Access

20+ read & publish agreements
78-93 % OA for recent years

complete institutional repository
99'763 publications
1'064'283 full text downloads / year

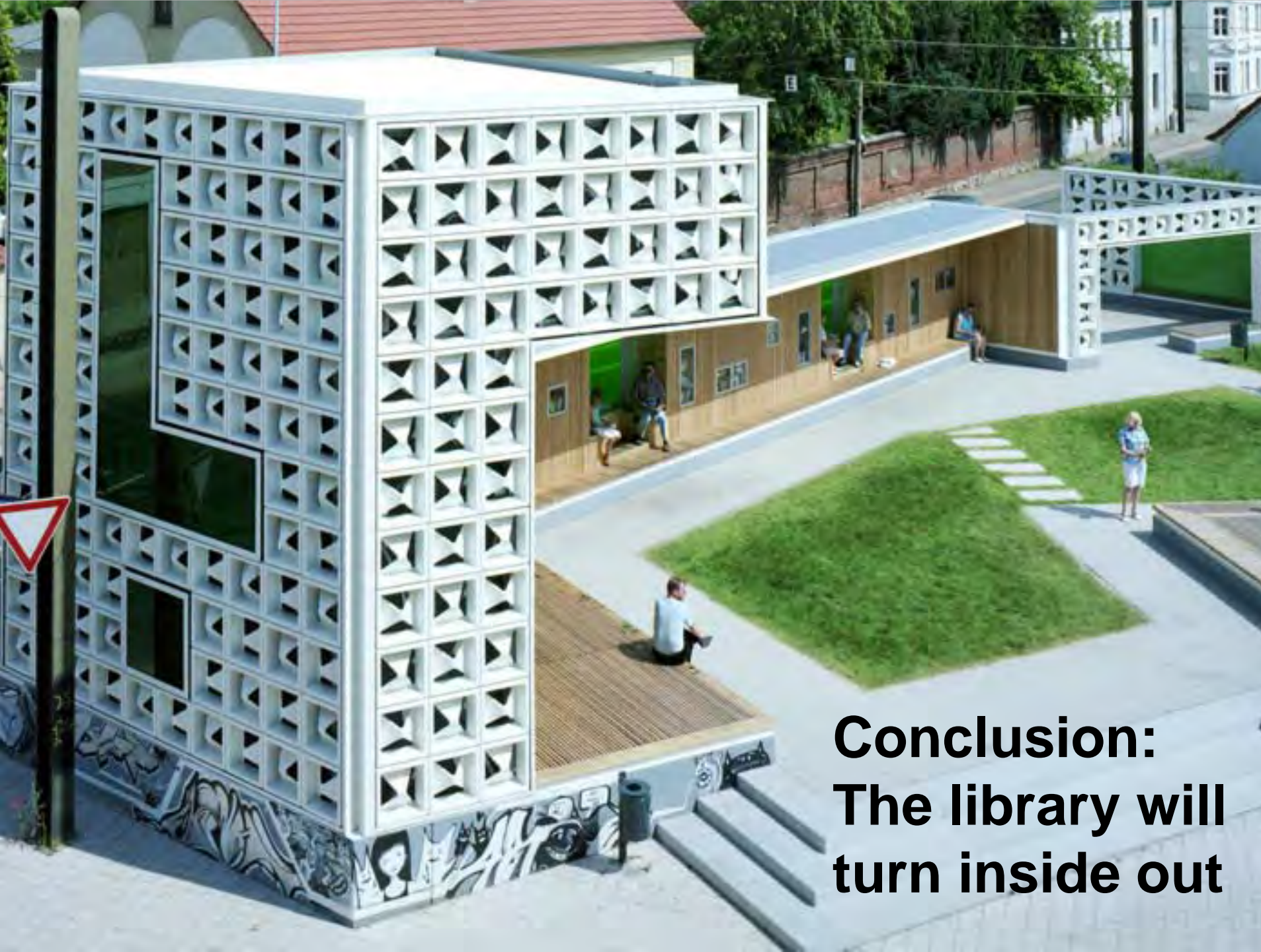
small library
CHF 5.45 Mio expenditure
15.1 FTEs staff



All News

Data as of 31.12.24





**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>,
[CC BY](#)

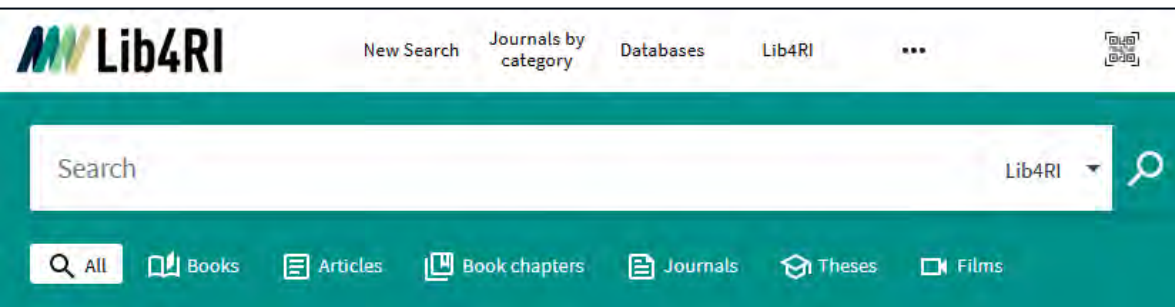
Consequence: two streams of information

Reading

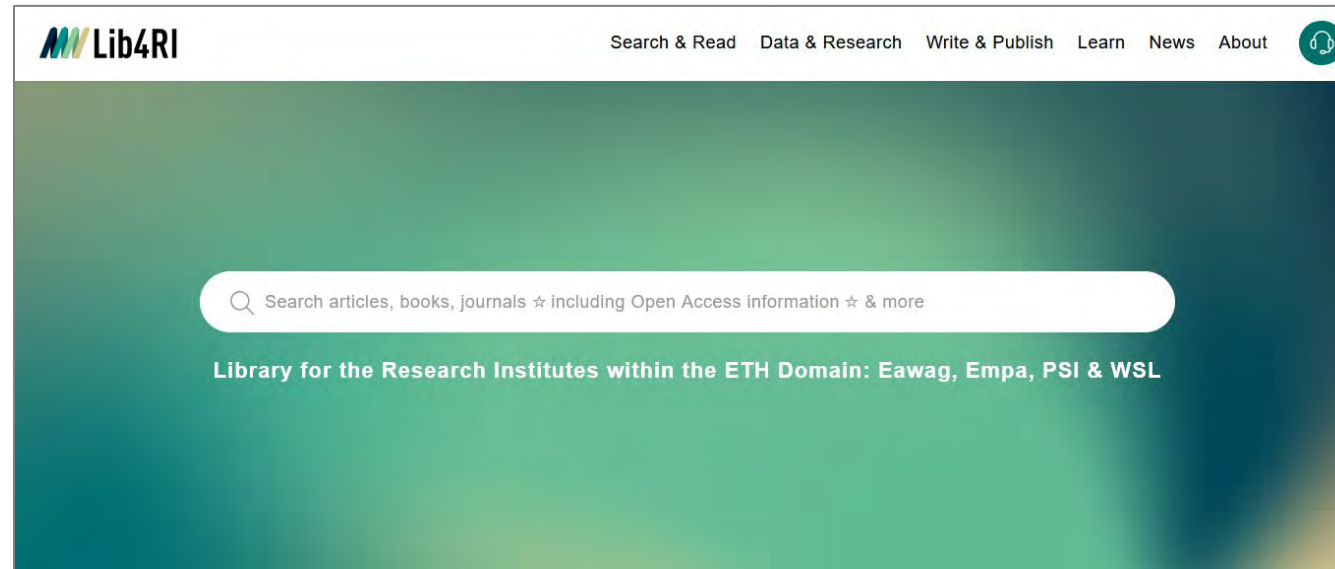
- library catalogue
 - tendency: integrated library system
 - integrating further information (articles, institutional repository, maps, ...)
- databases
 - Web of Science, Scopus, PubMed, OpenAlex etc.

Publishing Open Access

- Gold OA: DOAJ
- Green OA: JISC open policy finder
- read & publish agreements: web pages, excel files
- integration portals: oa.finder and others



The Lib4RI Search Tool



bringing together reading and publishing information





BETA Version

aphid ecology



Articles, books, etc.

Journals

Lib4RI website

Journal articles, etc.

Scopus

Web of Science

OpenAlex

- Dixon A. Aphid Ecology An optimization approach 1985. <https://doi.org/10.1007/978-94-011-5868-8>.
- Dixon AFG. Aphid Ecology: Life Cycles, Polymorphism, and Population Regulation 1977. <https://doi.org/10.1146/annurev.es.08.110177.001553>.
- Stadler B et al. LINKING APHID ECOLOGY WITH NUTRIENT FLUXES IN A CONIFEROUS FOREST 1998. [https://doi.org/10.1890/0012-9658\(1998\)079\[1514:laewnf\]2.0.co;2](https://doi.org/10.1890/0012-9658(1998)079[1514:laewnf]2.0.co;2).
- Pickett JA et al. The Chemical Ecology of Aphids 1992. <https://doi.org/10.1146/annurev.en.37.010192.000435>.
- Ragsdale DW et al. Ecology and Management of the Soybean Aphid in North America 2010. <https://doi.org/10.1146/annurev-ento-120709-144755>.

See all 964 results (title + abstract search)

Extend/modify search:

- 18640 results in fulltext search
- 0 results in author search

Books

we filter for most relevant content ...

swisscovery Lib4RI

- Dixon AFG, Dixon AFG. *Aphid ecology*. Blackie; 1985.
- Dixon A. *Aphid Ecology An optimization approach*. Springer Netherlands; 1985.
- Ali J. *Peach Potato Aphid (Myzus Persicae): Ecology and Management*. CRC Press Unlimited; 2023.
- Kindlmann P et al. *Aphid biodiversity under environmental change : patterns and processes*. Springer; 2010.
- *Ecology of compression wood formation, silviculture and compression wood, mechanism of compression wood action, compression wood in the lumber and pulp and paper industries, compression wood induced by t...* Verl...

... and extend the results, if needed

See all 54 results

Extend search:

- 117 results in all swisscovery libraries
- 1029 results including book chapters

Other book resources

→ WorldCat

Institutional repository

DORA Eawag

- Gimmi E et al. Ecological divergence despite common mating sites: genotypes and symbiotypes shed light on cryptic diversity in the black bean aphid species complex. *Heredity* 2024. <https://doi.org/10.1038/s41437-024-00687-0>.
- Gimmi E, Vorburger C. High specificity of symbiont-conferred resistance in an aphid-parasitoid field community. *Journal of Evolutionary Biology* 2024. <https://doi.org/10.1093/jeb/voad013>.
- Hafer-Hahmann N, Vorburger C. Parasitoid species diversity has no effect on protective symbiont diversity in experimental host-parasitoid populations. *Ecology and Evolution* 2024. <https://doi.org/10.1002/ce3.11090>.
- Hudson CM et al. Clines of resistance to parasitoids: the multifarious effects of temperature on defensive symbioses in insects. *Current Opinion in Insect Science* 2024. <https://doi.org/10.1016/j.cois.2024.101208>.
- Gimmi EL et al. Defensive symbiosis in the wild - patterns and dynamics of symbiont-conferred resistance in natural host-parasitoid communities 2023. <https://doi.org/10.3929/ethz-b-000617575>.

See all 71 results

[Articles, books, etc.](#)[Journals](#)[Website](#)

Most relevant journals

[Close all details](#)

Global change biology

- Publisher: Wiley
 - [Journal homepage](#)
- Publication period: 1995-
 - [Available online \(1997-\)](#)
 - [Print available at Lib4RI WSL](#)
- Details:
 - ISSN: 1354-1013
 - E-ISSN: 1365-2486
 - Peer-reviewed
 - Journal Impact Factor: 10.8 ([details at JCR](#))

Lib4RI Open Access Agreement ⓘ

- Full APC Funding 2022 – 2024
- Article quota for 2024 used up
- License: CC BY 4.0 ([recommended](#)) CC BY-NC 4.0 or CC BY-NC-ND 4.0
- [Get more information on this agreement](#)

Green Open Access ⓘ

- Accepted Version
 - Embargo: 12 months
- [Further options](#) at Jisc open policy finder

Global change biology. Bioenergy

- Publisher: Wiley
 - [Journal homepage](#)
- Publication period: 2009-
 - [Available online \(2009-\)](#)
- Details:
 - ISSN: 1757-1693
 - E-ISSN: 1757-1707
 - Peer-reviewed
 - Journal Impact Factor: 5.9 ([details at JCR](#))

Gold Open Access ⓘ

- APC: 2890 USD (DOAJ), [verify on journal homepage](#)
 - [Check Lib4RI Fund](#) (if APC < CHF 2500)
 - [Check SNSF Fund](#) (if project is SNSF funded)
- License: CC BY
- [Further details](#) at DOAJ

Open Access got really complicated

- information researchers need:

Is the journal part of a current OA agreement?

- journal included?
- quota?
- time period, agreement in place?

Options for green OA?

- which version?
- embargo?
- filtered, relevant options from Open Policy Finder

Gold OA journal?

- fee (APC)?
- who pays?

License information and recommendation

Articles, books, etc.

Journals

Website

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

Most relevant journals**Global change biology**

- Publisher: Wiley
 - [Journal homepage](#)
- Publication period: 1995-
 - Available online (1997-)
 - Print available at Lib4RI WSL
- Details:
 - ISSN: 1354-1013
 - E-ISSN: 1365-2486
 - Peer-reviewed
 - Journal Impact Factor: 10.8 ([details at JCR](#))

Global change biology. Bioenergy

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- [Get more information about this agreement](#)

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- Accepted Version
 - Embargo: 12 months
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Gold Open Access ⓘ

- APC: 2890 USD (DOAJ), [verify on journal homepage](#)
 - [Check Lib4RI Fund](#) (if APC < CHF 2500)
 - [Check SNSF Fund](#) (if project is SNSF funded)
- License: CC BY
- [Further details at DOAJ](#)

Close all details

Lib4RI Search articles, books, ... Search & Read Data & Research Write & Publish Learn News About

Wiley

Update 16.6.2025: The negotiations of swissuniversities with Wiley have reached a milestone. Please click [here](#) for further information – intranet only.

General information

- Open Access publishing in all Wiley hybrid Open Access journals without extra costs for the authors.
- Articles with a corresponding author from Eawag, Empa, PSI & WSL are eligible for a full APC discount. For papers with multiple corresponding authors, the submitting author needs to identify a "responsible corresponding author". "Responsible corresponding authors" with primary affiliation (for the article) with Eawag, Empa, PSI or WSL are eligible for free Open Access.

Eligible journals

- All Wiley hybrid Open Access journals: [List of eligible journals](#)
- The [Lib4RI Search Tool](#) makes it easy to identify journals eligible for OA publishing without direct costs for authors.

Eligible article types

Scientific writing
Scientific publishing
Open Access
Green Open Access
Open Access fund
Research funders' Open Access policies
Copyright & CC Licences
DORA
Get a DOI
Literature management
Bibliometrics
Plagiarism check
Increase your visibility

Lib4RI Search articles, books, ... Search & Read Data & Research Write & Publish Learn News About

Green Open Access

The green road to Open Access – self archiving – describes the simultaneous or subsequent archiving of digital publications on an institutional or disciplinary OA document server. As a solution for the researchers at Eawag, Empa, PSI, and WSL, Lib4RI provides the institutional repository [DORA](#).

Submit the correct version of your article to DORA

Most articles in DORA can be made freely accessible to everyone without any additional costs, neither for you as the author, nor for the reader (Green Road to Open Access). This gets you a wider audience to increase your research impact and facilitates compliance with Open Access policies of research funders. However, it can be a bit tricky to choose the right version of your work to share. Here we outline the different versions of your article, each version corresponding to the different stages of the peer review and publication process.

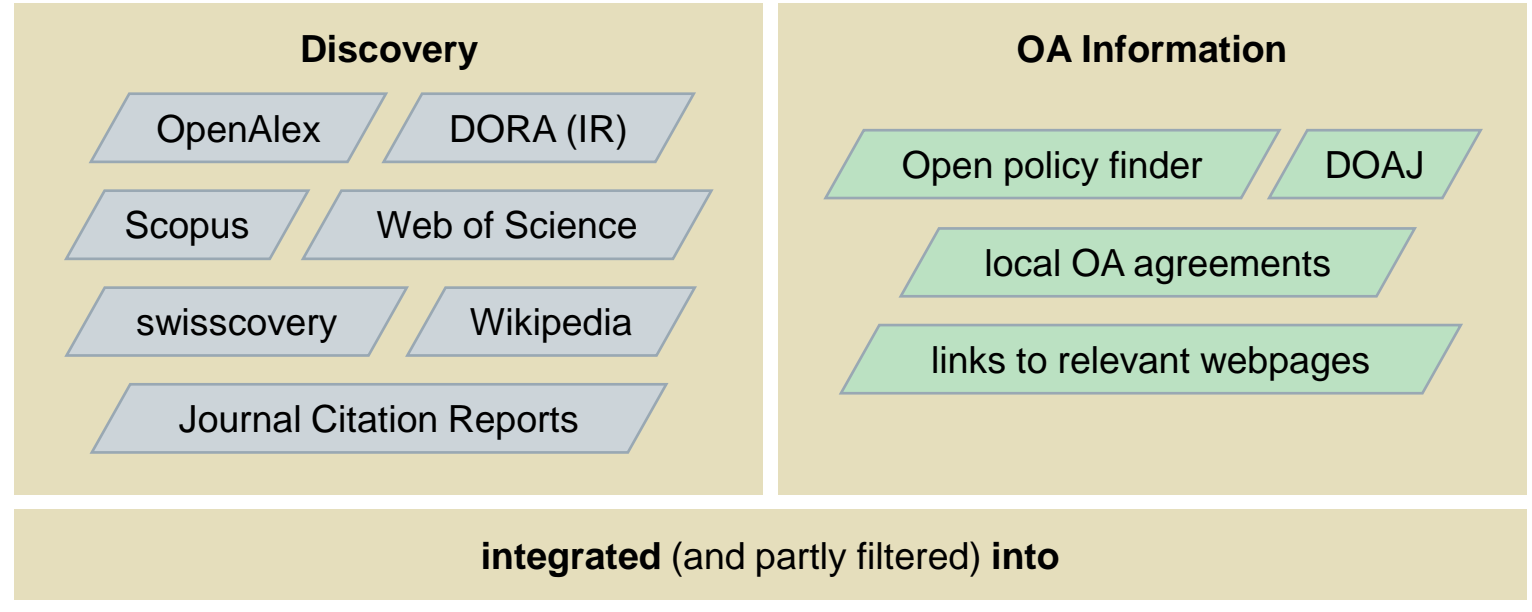
Submitted manuscript Version 1 Version ... Accepted manuscript Proof Published manuscript

Formatted by authors Peer review Formatted by journal

Scientific writing
Scientific publishing
Open Access
Green Open Access
Open Access agreements
Open Access fund
Research funders' Open Access policies
Copyright & CC Licences
DORA
Get a DOI
Literature management
Bibliometrics
Plagiarism check
Increase your visibility
LLMs & AI tools

Implementation: APIs instead of a monolithic database

- Drupal for the boxes
- APIs from several external systems
- JavaScript for box contents
- code openly available on Codeberg: <https://codeberg.org/Lib4RI>
cooperation highly appreciated!
- 1 Excel file for the agreements



Local information on read & publish agreements

Publisher	Title	ISSN	Agreement type	Comment	License	Link
AIP	Biointerphases	1934-8630	Full APC Funding: 2025		CC BY	AIP
ASM	Journal of Bacteriology	1098-5530		APC fully covered by the Subscribe to Open model. Note: page charges still apply	CC BY	ASM
Springer Nature	Nature Water	2731-6084	Full APC Funding: 2023-2025	Article quota is expected to be reached by July 2025	CC BY	Nature

- simple Excel / CSV table
- flexible to change

Biointerphases

- Publisher: American Vacuum Society
- Journal homepage
- Publication period: 2006-
- Available online (2006-)
- Details:
 - ISSN: 1559-4
 - ISSN: 1934-8
 - Peer-reviewed
 - Journal Impact

Lib4RI Open Access Agreement ⓘ

- Full APC Funding: 2025
- Licence: CC BY

Journal of bacteriology : JB

- Publisher: American Society for Microbiology
- Journal homepage
- Publication period: 1916-
- Available online (1916-)
- Print available at Li
- Details:
 - ISSN: 0021-9193
 - E-ISSN: 1098-5530
 - Peer-reviewed
 - Journal Impact Fac

Lib4RI Open Access Agreement ⓘ

- APC fully covered by the Subscribe to Open model. Note: page charges still apply

Nature

- Publisher: Nature Research
- Journal homepage
- Publication period: 1869-
- Available online (1869-)
- Details:
 - ISSN: 0028-0836
 - E-ISSN: 1476-4687
 - Peer-reviewed

Lib4RI Open Access Agreement ⓘ

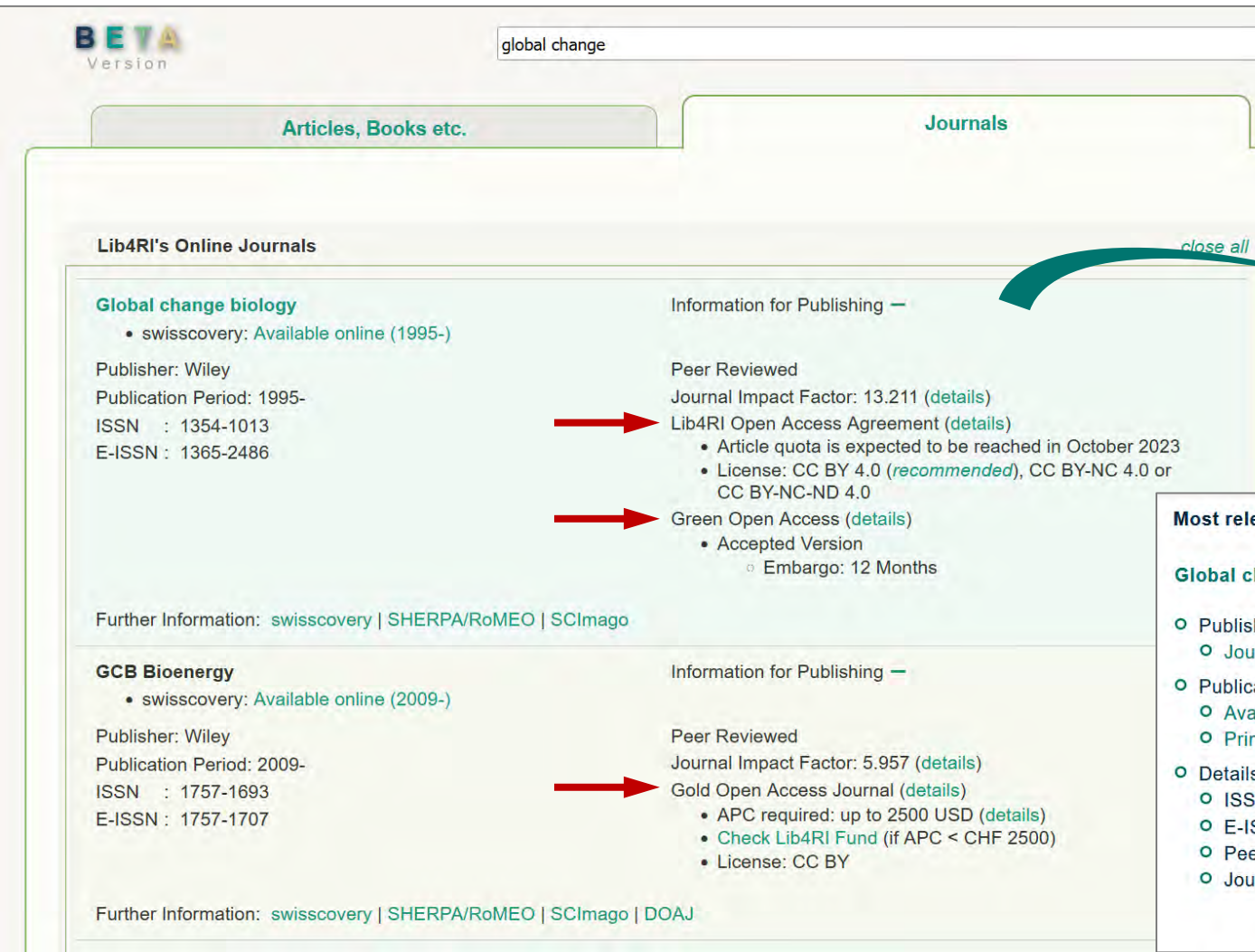
- Full APC Funding: 2023-2025
- Article quota is expected to be reached by July 2025
- Licence: CC BY
- Get more information on this agreement

Green Open Access ⓘ

Agile development

- Jan 2022 first mock-ups, APIs tested
- Sep 2022 beta launch
- Apr 2023 Lib4RI website relaunch (Drupal)
- since continuous refinements and improvements (filtering, paging, wording, ...)

estimate: 0.1 – 0.2 FTE / y



BETA
Version

global change

Articles, Books etc. Journals

Lib4RI's Online Journals

Global change biology
• swisscovery: Available online (1995-)

Publisher: Wiley
Publication Period: 1995-
ISSN : 1354-1013
E-ISSN : 1365-2486

Information for Publishing —

Peer Reviewed
Journal Impact Factor: 13.211 (details)

Lib4RI Open Access Agreement (details)

- Article quota is expected to be reached in October 2023
- License: CC BY 4.0 (recommended), CC BY-NC 4.0 or CC BY-NC-ND 4.0

Green Open Access (details)

- Accepted Version
 - Embargo: 12 Months

Further Information: [swisscovery](#) | [SHERPA/RoMEO](#) | [SCImago](#)

GCB Bioenergy
• swisscovery: Available online (2009-)

Publisher: Wiley
Publication Period: 2009-
ISSN : 1757-1693
E-ISSN : 1757-1707

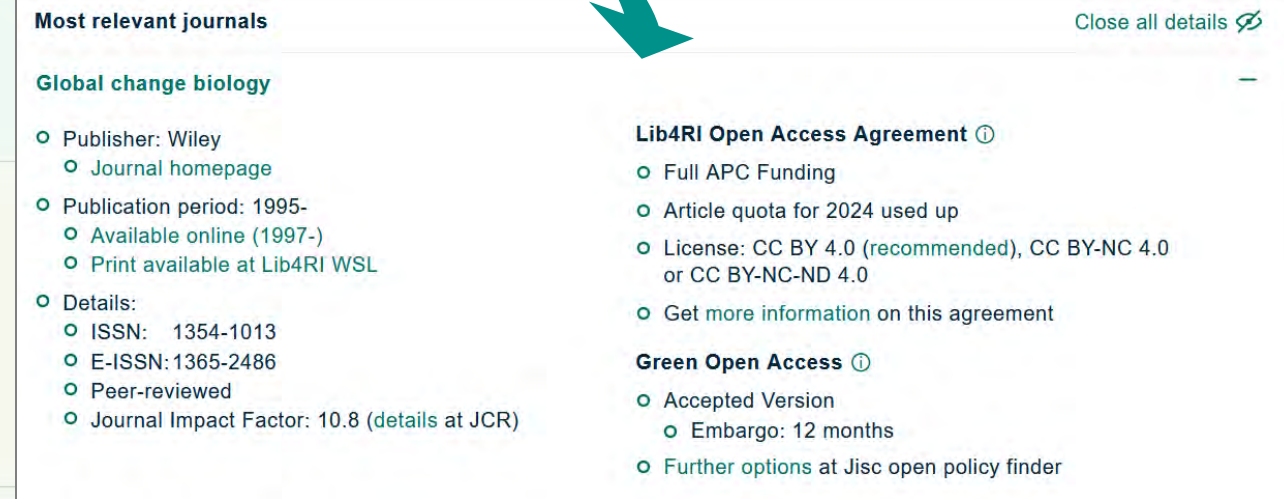
Information for Publishing —

Peer Reviewed
Journal Impact Factor: 5.957 (details)

Gold Open Access Journal (details)

- APC required: up to 2500 USD (details)
- Check Lib4RI Fund (if APC < CHF 2500)
- License: CC BY

Further Information: [swisscovery](#) | [SHERPA/RoMEO](#) | [SCImago](#) | [DOAJ](#)



Most relevant journals

Close all details

Global change biology

- Publisher: Wiley
 - Journal homepage
- Publication period: 1995-
 - Available online (1997-)
 - Print available at Lib4RI WSL
- Details:
 - ISSN: 1354-1013
 - E-ISSN: 1365-2486
 - Peer-reviewed
 - Journal Impact Factor: 10.8 (details at JCR)

Lib4RI Open Access Agreement

- Full APC Funding
- Article quota for 2024 used up
- License: CC BY 4.0 (recommended), CC BY-NC 4.0 or CC BY-NC-ND 4.0
- Get more information on this agreement

Green Open Access

- Accepted Version
 - Embargo: 12 months
- Further options at Jisc open policy finder

Challenges

We use APIs

- API speed is distinctly different (e.g. library catalogue is slow)
- errors are to correct in the source systems (e.g. APCs in DOAJ are often not up-to-date)

Global change biology. Bioenergy

- Publisher: Wiley
 - [Journal homepage](#)
- Publication period: 2009-
 - [Available online \(2009-\)](#)
- Details:
 - ISSN: 1757-1693
 - E-ISSN: 1757-1707
 - Peer-reviewed
 - Journal Impact Factor: 5.9 ([details at JCR](#))

Gold Open Access ⓘ

- APC: **2890 USD (DOAJ)** [verify on journal homepage](#)
 - [Check Lib4RI Fund](#) (if APC < CHF 2500)
 - [Check SNSF Fund](#) (if project is SNSF funded)
- License: CC BY
- [Further details at DOAJ](#)

Article Publication Charges (APCs)

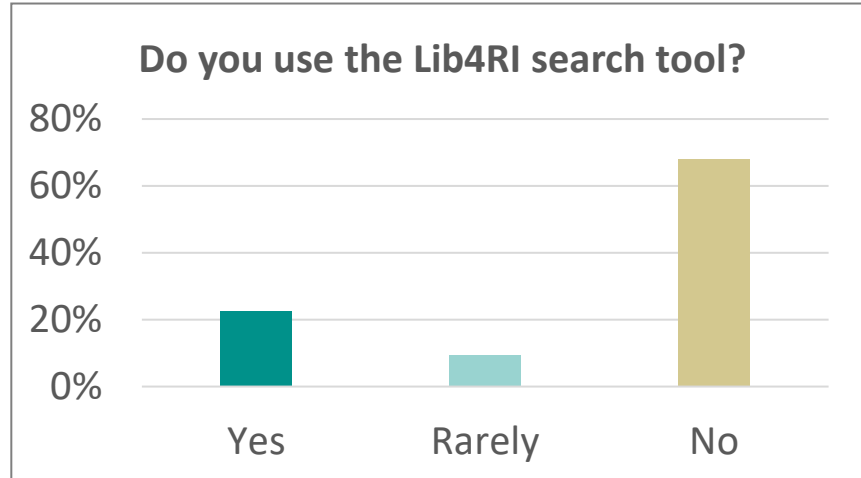
As of January 2016, all articles accepted and published in *GCB Bioenergy* are fully Open Access: immediately free to read, download, and share.

Submissions will be subject to an APC if accepted and published in the journal: **\$3,180 USD**

Challenges

Researchers do not expect this service ...

- results of a small survey (WSL, senior scientists and Postdocs, n=56)

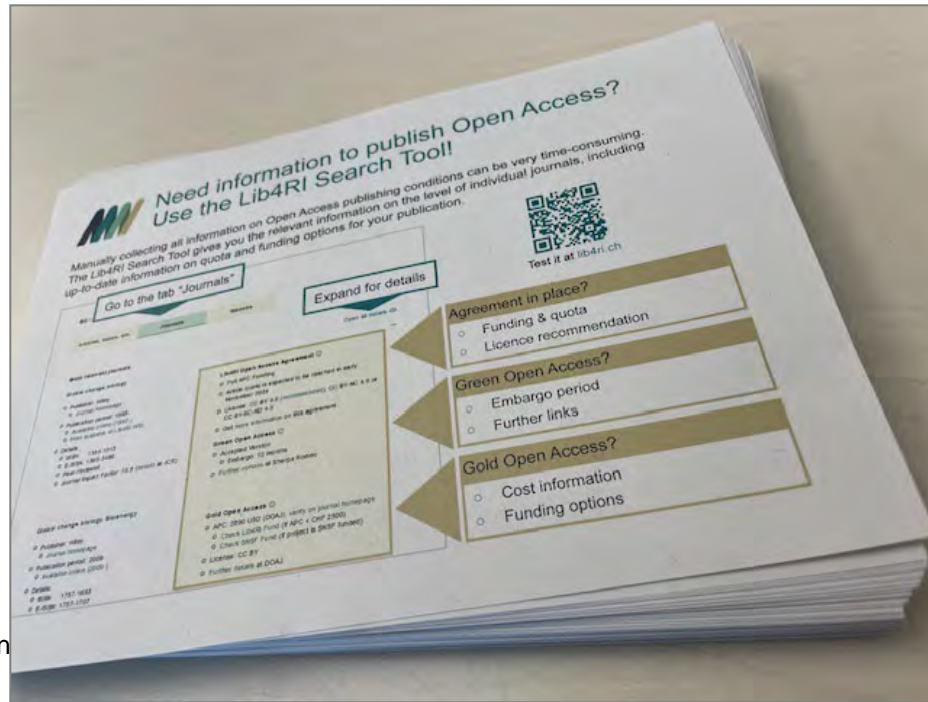


... but if they find it, they appreciate

- «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!»

We have to spread the word ...

- introductions, trainings, e-mail footer, ...
- «Can I publish OA in the journal xyz?»
-> send a link
- flyer



We have a service to offer

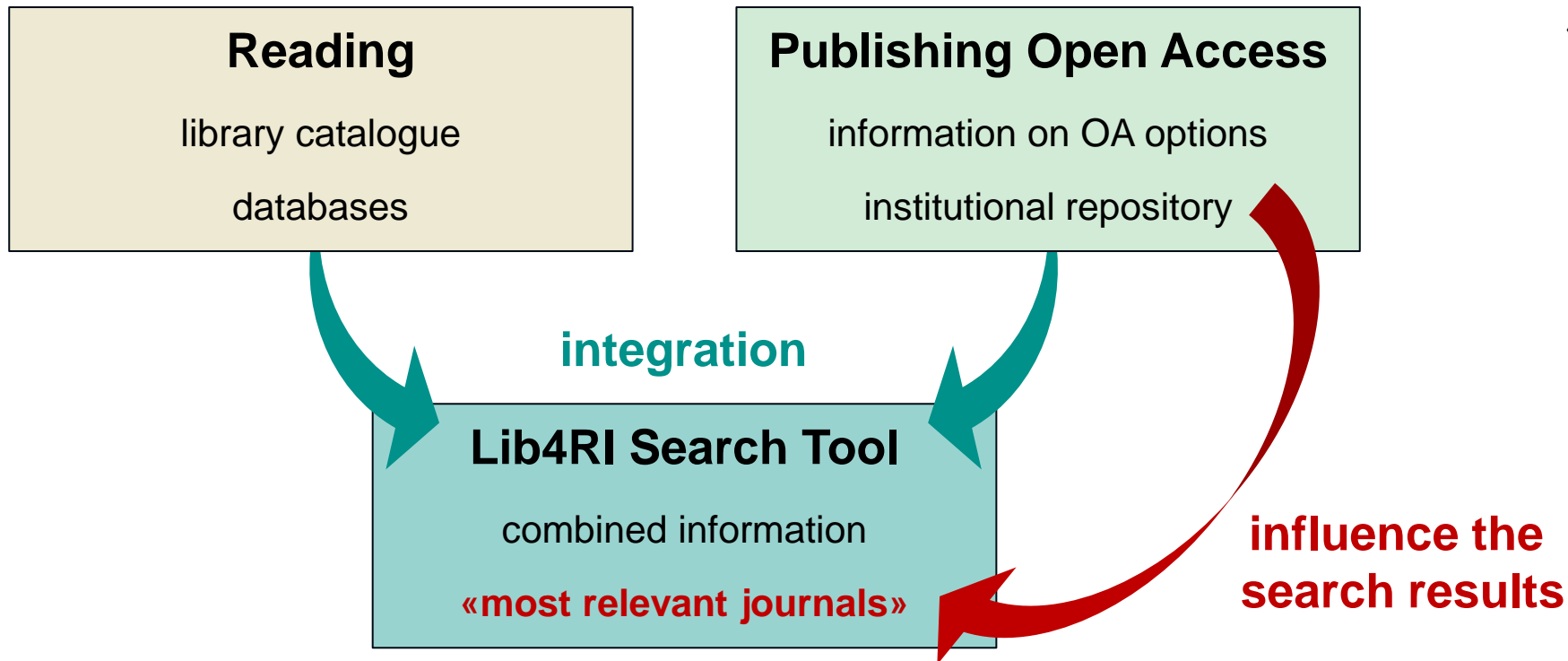
- we address a need of the researchers
- helps for marketing of other resources
- keeps the library relevant
- helps to increase the OA share of the researcher / of the institution

Open Access

(Data for journal articles from the Swiss OA Monitor,
<https://oamonitor.ch/>, 10.06.25)

	2020	2021	2022	2023	2024	2020-2024
Eawag	87.5%	91.5%	92.7%	83.6%	83.3%	87.7%
WSL	85.0%	91.9%	89.4%	85.0%	83.9%	87.1%
Empa	81.5%	87.1%	83.0%	80.1%	80.2%	82.4%
Paul Scherrer Institute	80.0%	85.3%	83.9%	79.5%	77.9%	81.3%
University of Zürich	72.1%	78.5%	80.7%	78.8%	73.9%	76.8%
University of Basel	69.2%	76.7%	78.4%	77.1%	76.1%	75.5%
University of Geneva	70.4%	77.0%	77.3%	77.2%	75.3%	75.4%
University of Bern	69.4%	75.9%	79.7%	76.8%	74.2%	75.2%
University of Lausanne	66.7%	75.4%	76.4%	72.5%	72.3%	72.7%
ETH Zürich	65.2%	72.7%	74.6%	75.4%	73.5%	72.3%
University of Neuenburg	58.5%	72.5%	73.7%	70.7%	75.8%	70.2%
University of Freiburg	61.8%	69.4%	70.9%	71.9%	73.0%	69.4%
EPFL	57.6%	64.5%	66.0%	69.3%	68.4%	65.2%
University of Luzern	55.6%	59.7%	69.8%	68.1%	70.7%	64.8%
Università della Svizzera italiana	54.1%	66.2%	68.5%	69.6%	62.5%	64.2%
University of St. Gallen	52.2%	66.2%	68.0%	61.7%	61.3%	61.9%

Next step: publications influence search results



«Most relevant journals»?

- the journals researchers publish in
- institutional repository as a source
- # articles for relevance ranking

Further development: a look into our kitchen

Journal search based on local publications

BETA

Version

Articles

Journals

currently: search in the library catalogue

soon: journal database covering institutional repository and OA agreements

Most relevant journals

Open all details

Water research		+
Water harvesting research		+
Water quality research journal		+
Water Research X		+
Soil and water research		+
Water resources research		+
Water environment research		+

See all 19 results

Extend search:

- 55 results for all journals in Lib4RI
- 91 results for all journals in swisscovery

Glossary

Browse Journals by Subject

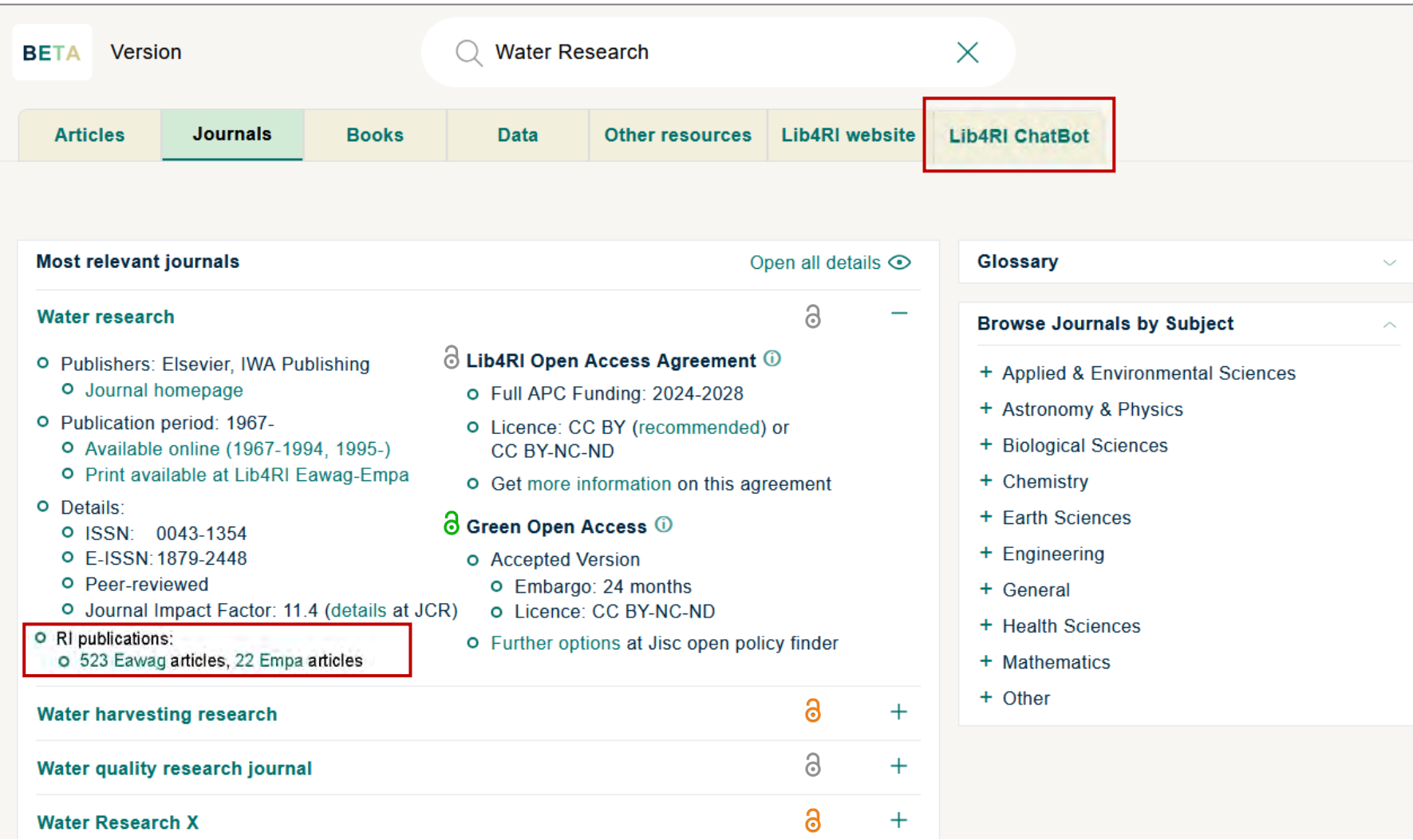
- + Applied & Environmental Sciences
- + Astronomy & Physics
- + Biological Sciences
- + Chemistry
- + Earth Sciences
- + Engineering
- + General
- + Health Sciences
- + Mathematics
- + Other

extending search to all journals in the library catalogue is possible

«Most relevant journals»?

- the journals researchers publish in
- institutional repository as a source
- # articles for relevance ranking
- faster API
- limited number is important for «browse journals by subject» («Are there journals in my discipline to publish OA?»)
- link to local publications

Further development: a look into our kitchen



BETA Version

Water Research

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

Most relevant journals [Open all details](#)

Water research

- Publishers: Elsevier, IWA Publishing
 - Journal homepage
- Publication period: 1967-
 - Available online (1967-1994, 1995-)
 - Print available at Lib4RI Eawag-Empa
- Details:
 - ISSN: 0043-1354
 - E-ISSN: 1879-2448
 - Peer-reviewed
 - Journal Impact Factor: 11.4 (details at JCR)
- RI publications:
 - 523 Eawag articles, 22 Empa articles

Lib4RI Open Access Agreement

- Full APC Funding: 2024-2028
- Licence: CC BY (recommended) or CC BY-NC-ND
- Get more information on this agreement

Green Open Access

- Accepted Version
 - Embargo: 24 months
- Licence: CC BY-NC-ND
- Further options at Jisc open policy finder

Water harvesting research

Water quality research journal

Water Research X

Glossary

Browse Journals by Subject

- + Applied & Environmental Sciences
- + Astronomy & Physics
- + Biological Sciences
- + Chemistry
- + Earth Sciences
- + Engineering
- + General
- + Health Sciences
- + Mathematics
- + Other

«Most relevant journals»?

- the journals researchers publish in
- institutional repository as a source
- # articles for relevance ranking

- faster API
- limited number is important for «browse journals by subject» («Are there journals in my discipline to publish OA?»)
- link to local publications

What else?

- further tabs
- further resources (data!)
- decoupled front-end
- Lib4RI Chatbot

Questions? Discussion!

- Try it out!

<https://www.lib4ri.ch/>



- Do you know any other integrations?
- Are you interested?
Cooperation partners welcome!
- Dr. Lothar Nunnenmacher
lothar.nunnenmacher@lib4ri.ch
+41 58 765 53 21

