

OPEN ACCESS

- Background
- How to make your publications Open Access
 - Golden Road
 - Hybrid Open Access Journals
 - Green Road
- The State of Open Access
- Summary



What is Open Access?

- Open Access is the practice of **providing online access** to scientific information that is **free of charge to the reader** and **free of most copyright and licensing restrictions.** ^{1&2}
- Open Access is a kind of access, not a kind of business model, license, or content. ²

(1) https://openaccess.mpg.de/2076881/2014_05-h2020-factsheet-open-access-faq.pdf

(2) <http://legacy.earlham.edu/~peters/fos/overview.htm>

PERSPECTIVE  Free Access

A simple explanation for declining temperature sensitivity with warming

E. M. Wolkovich , J. Auerbach, C. J. Chamberlain, D. M. Buonaiuto, A. K. Ettinger, I. Morales-Castilla, A. Gelman,

First published: 05 August 2021 | <https://doi.org/10.1111/gcb.15746>

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Abstract

Recently, multiple studies have reported declining phenological sensitivities (Δ days per $^{\circ}\text{C}$) with higher temperatures. Such observations have been used to suggest climate change is reshaping biological processes, with major implications for forecasts of future change. Here, we show that these results may simply be the outcome of using linear models to estimate nonlinear temperature responses, specifically for events that occur after a cumulative thermal threshold is met—a common model for many biological events. Corrections for the apparent decline. C estimates based on cal without any shift in the to identify when and h

Details

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PRIMARY RESEARCH ARTICLE  Open Access  

Drought stress mitigation by nitrogen in boreal forests inferred from stable isotopes

Choimaa Dulamsuren, Markus Hauck 

First published: 26 July 2021 | <https://doi.org/10.1111/gcb.15813> | Citations: 1

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Abstract

Forest growth in most and low nitrogen availa increasing forest area i southern parts of the dendrochronological a answering the question nitrogen shortage at li study from larch forest ring analysis and bioi lichens that, in the stud boreal forest in Inner A fertilization from livestock kept in the vicinity and the edge of the forests. The most likely

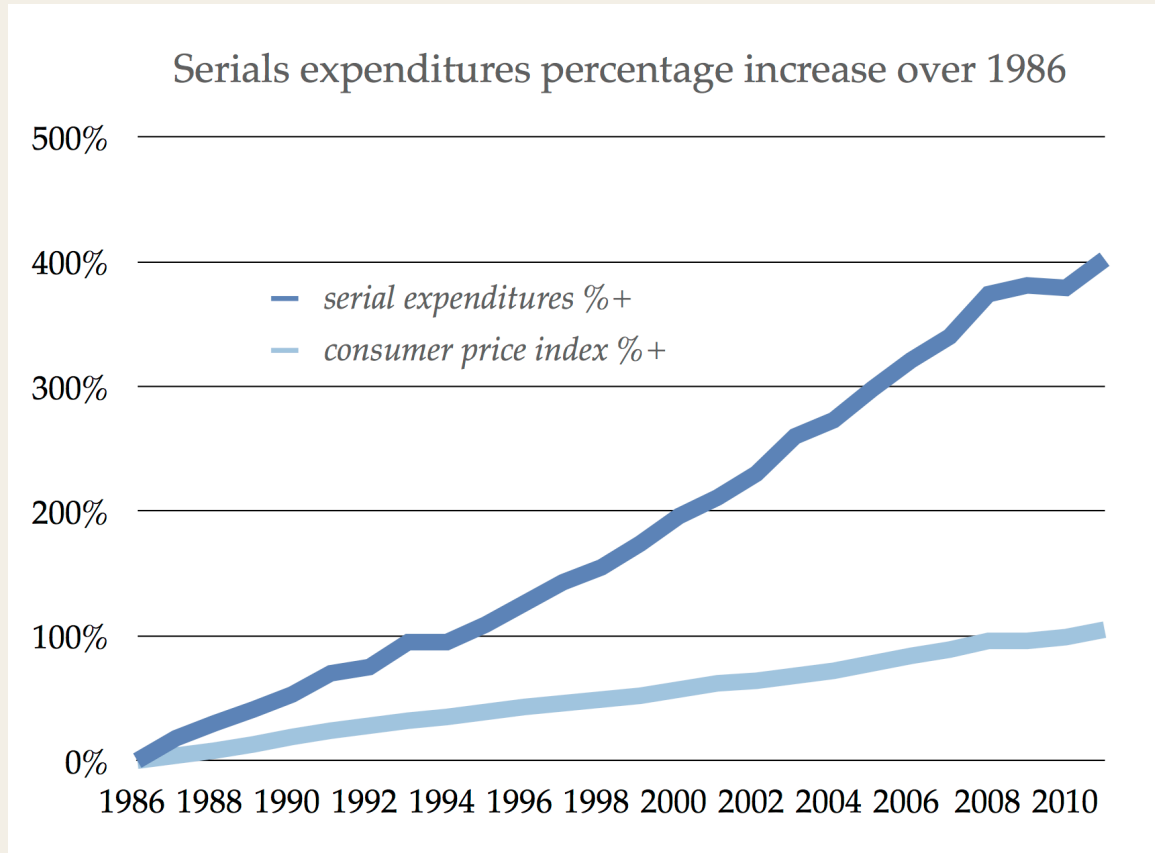
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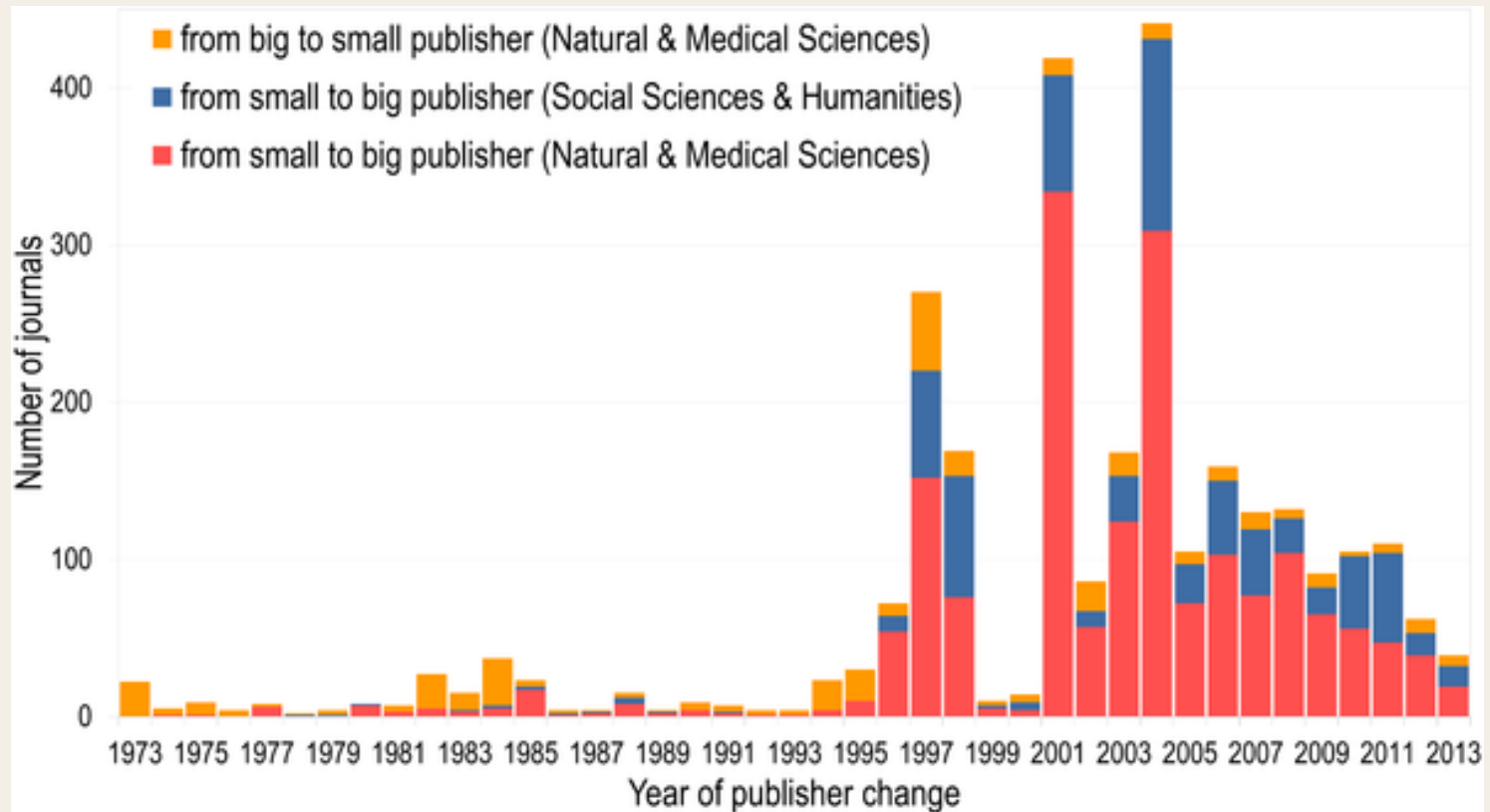
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Origins of Open Access: The Serials Crisis



Adapted from Stuart Shieber: [Why open access is better for scholarly societies](#), licensed under a [Creative Commons Attribution 3.0 Unported License](#)

Big Fish eats Little Fish

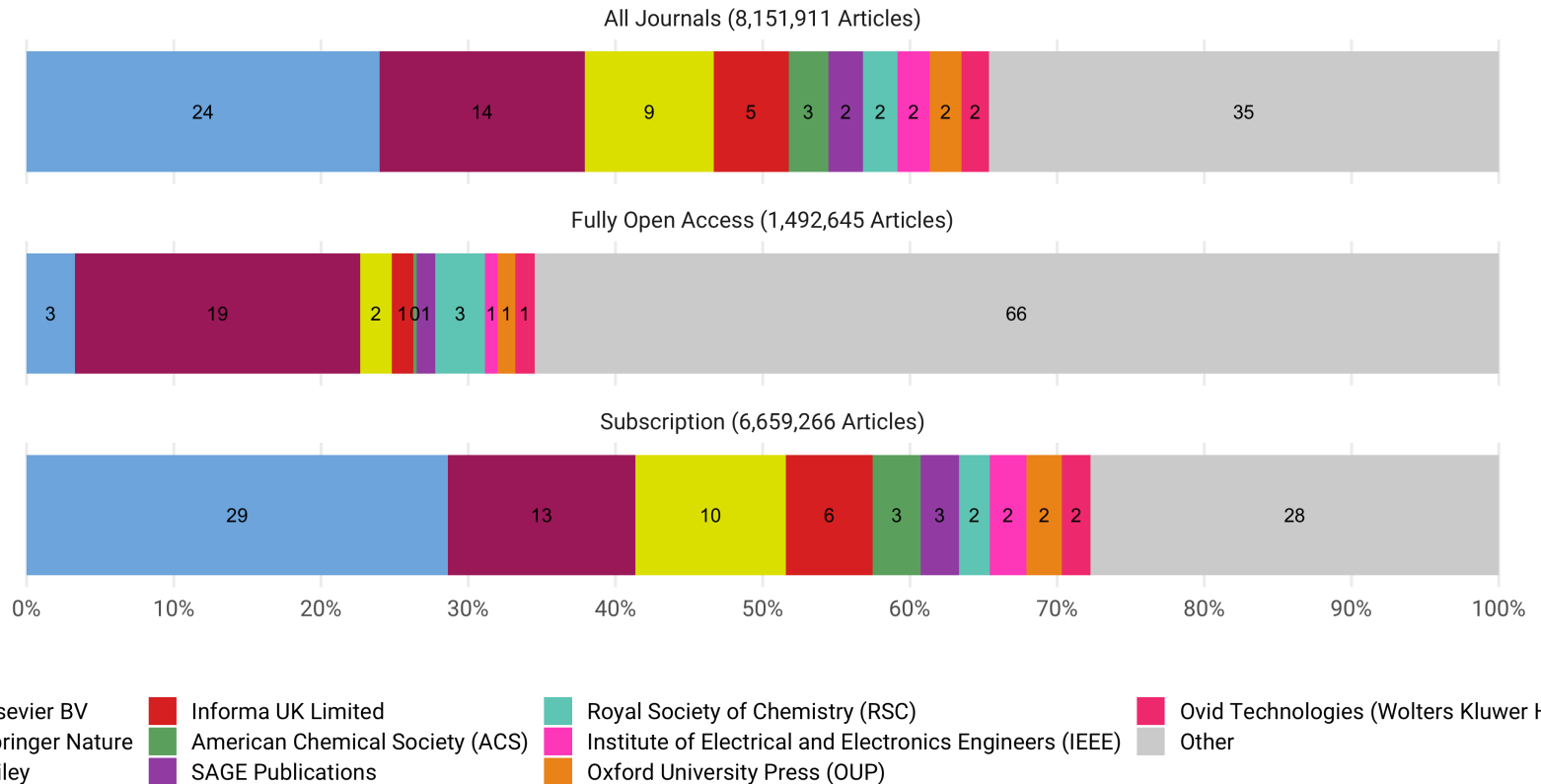


Number of journals changing from small to big publishers, and big to small publishers per year of change in the Natural and Medical Sciences and Social Sciences & Humanities.

Adapted from: Larivière V, Haustein S, Mongeon P (2015) The Oligopoly of Academic Publishers in the Digital Era. PLOS ONE 10(6): e0127502. <https://doi.org/10.1371/journal.pone.0127502>; licensed under a [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/)

Publisher Market Share 2014-2018

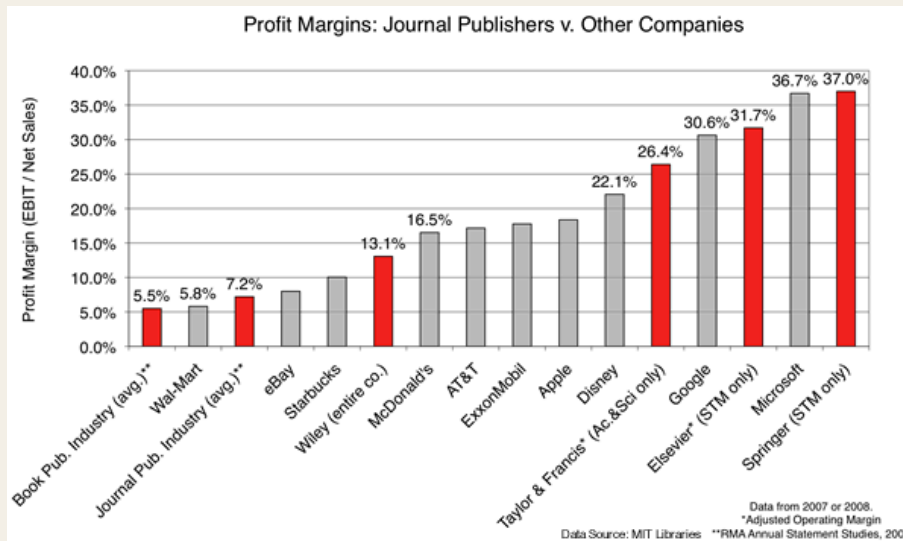
as measured by articles and reviews indexed in the Web of Science



Najko Jahn (2019) [Research compendium for a dataset about corresponding author country affiliations indexed in the Web of Science 2014 – 2018](#). Licensed under [CC-BY 4.0](#).

The global publishing landscape is dominated by a few large publishers.

The Academic Publishing Market



- oligopolistic conditions
- dysfunctional market
- huge profit margins

Source: Right to Research Coalition. (n.d.). Retrieved March 30, 2017, from <http://www.righttoresearch.org/learn/problem/index~print.shtml>

“Publishing obscure academic journals is that rare thing in the media industry: a license to print money.” (The Economist, 14 April 2012)

The Access Problem

The screenshot shows the ScienceDirect website interface. At the top, there are navigation links for 'Hub', 'ScienceDirect', 'Scopus', 'Ap', 'Register', 'Login', and 'Go to SciVal Suite'. A green banner below the navigation contains 'Home', 'Publications', 'Search', 'My settings', 'My alerts', and 'Shopping cart'. A search bar is visible with the text 'Search ScienceDirect'. The main content area displays the 'Journal of Health Economics' (Volume 22, Issue 2, March 2003, Pages 151-185) with the Elsevier logo. Below the journal information, the article title 'The price of innovation: costs' is shown, along with authors 'Joseph A DiMasi' and 'Ronald W Ha'. A 'View full text' button is present, and a red circle highlights a 'Purchase \$39.95' button with a PDF icon. A light blue callout box on the right contains three bullet points.


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 **Journal of Health Economics**
Volume 22, Issue 2, March 2003, Pages 151-185

The price of innovation: costs


Joseph A DiMasi^a, Ronald W Ha^b

^a Tufts Center for the Study of Drug Development
^b William E. Simon Graduate School of Business
^c Department of Economics, Duke University, D

[http://dx.doi.org/10.1016/S0167-6296\(02\)00126-](http://dx.doi.org/10.1016/S0167-6296(02)00126-)

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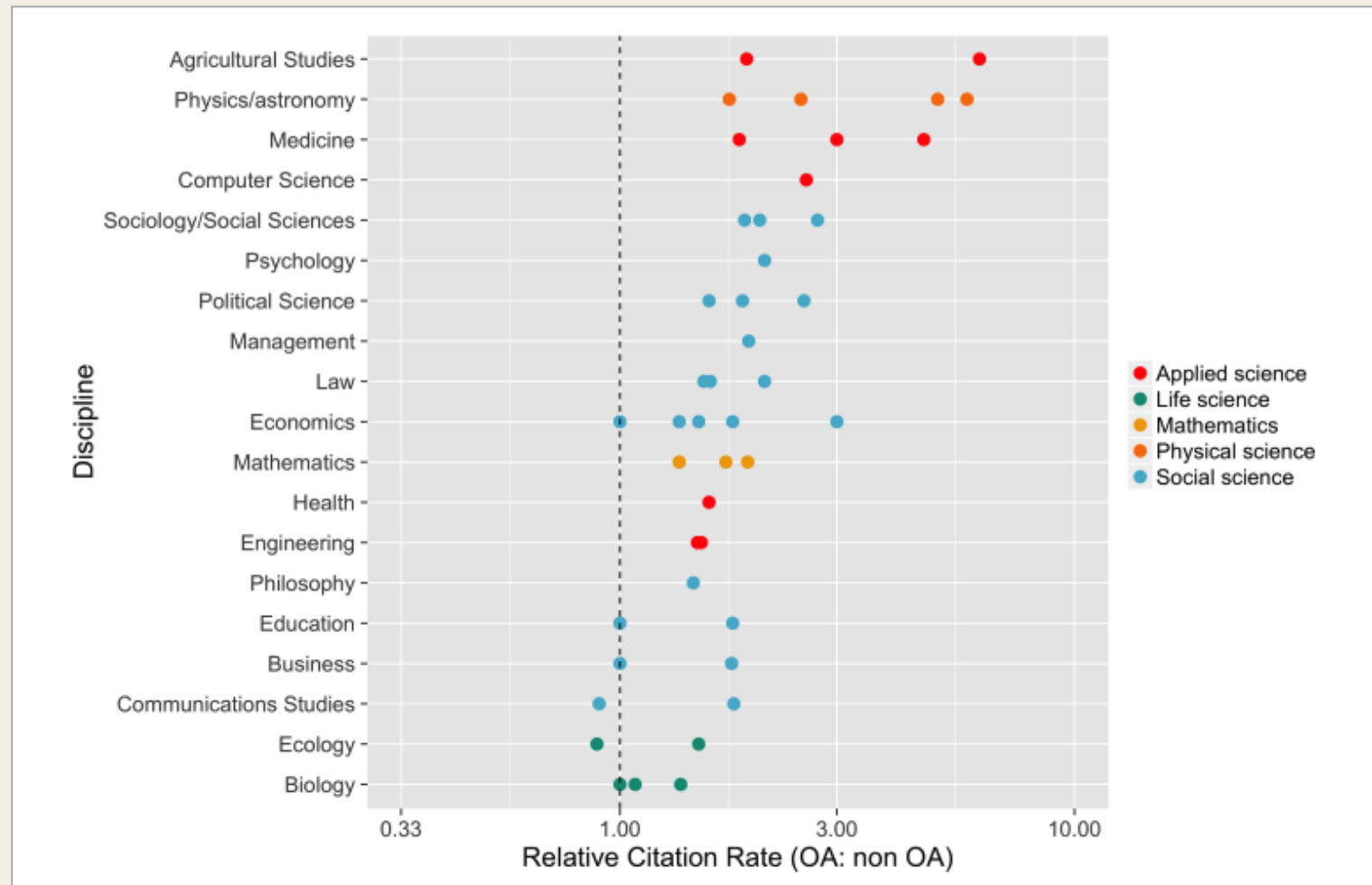
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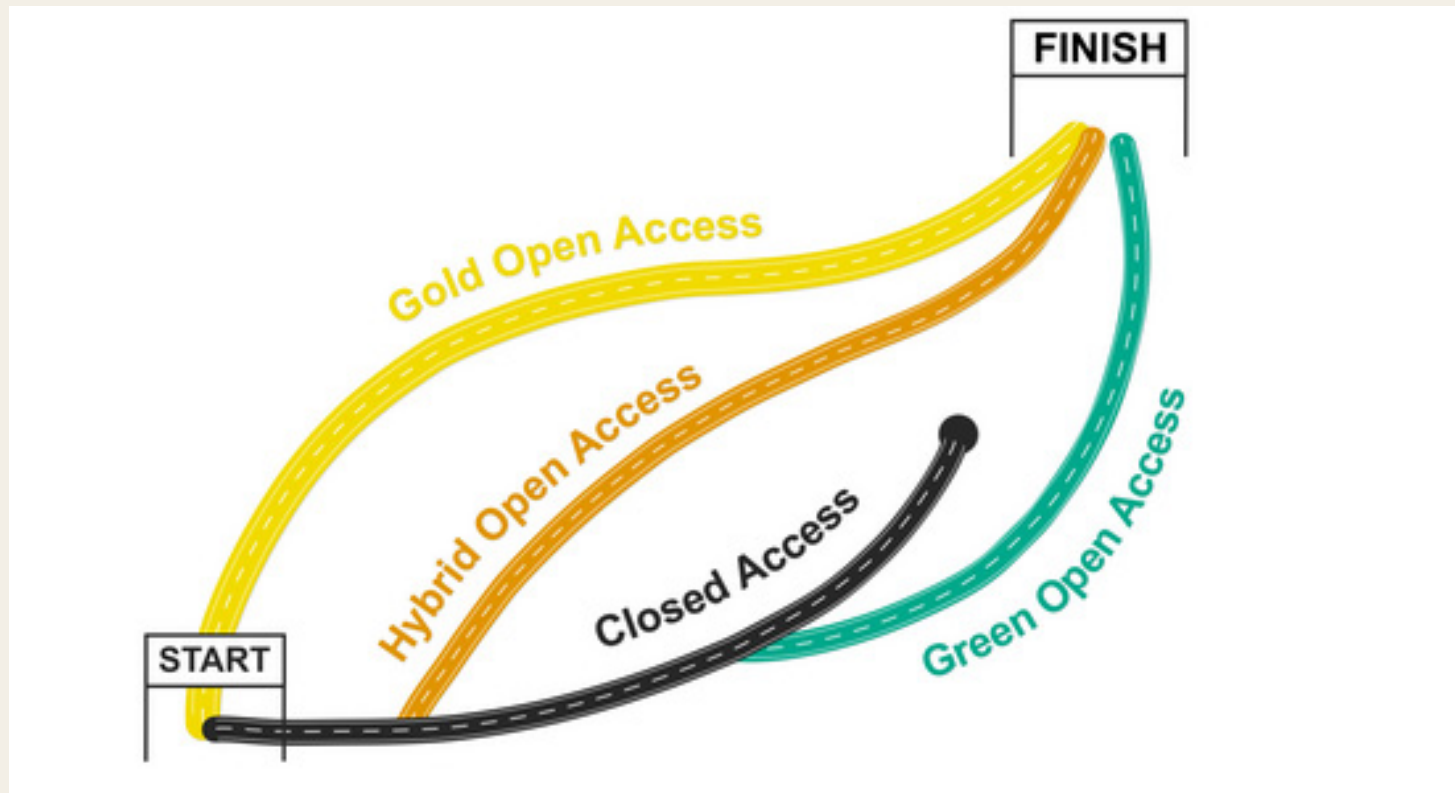
... even if in the end OA turns out not to be cheaper

Open Access articles get more citations



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How to publish Open Access



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(Full) Open Access Journals

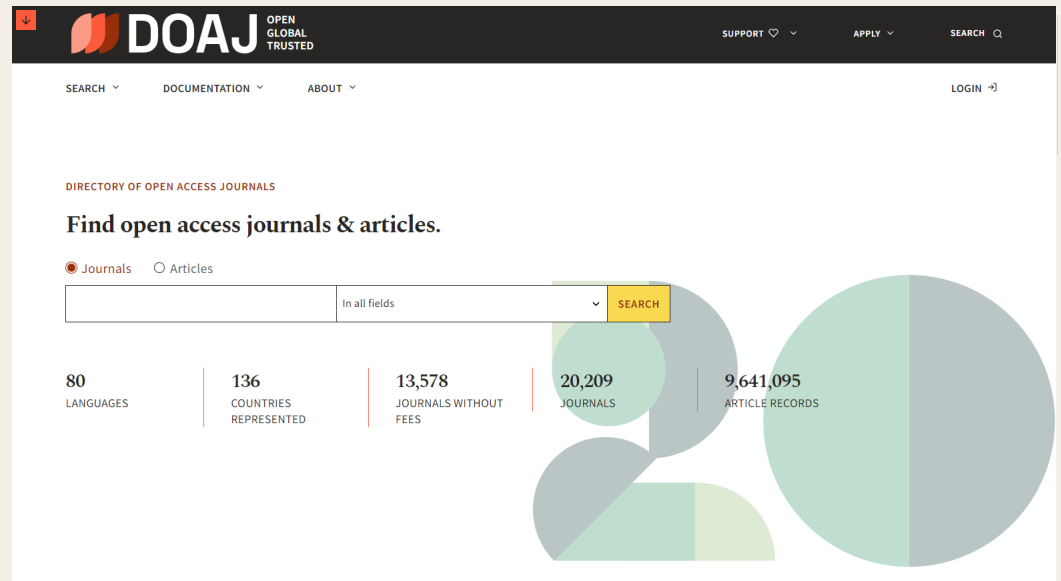
Open Access Journals

- All articles are immediately published Open Access
- Authors usually retain copyright and articles are published under [Creative Commons Attribution License](#).
- Publisher may be commercial, non-profit, or societies.
- Most are peer reviewed.
- OA journals earn respectability the same way other journals do: through the quality of their articles and the prominence of the people they attract as authors, editors, etc.



Directory of Open Access Journals www.doaj.org

- > 20000 OA-Journals
- *Whitelist* for OA journals (see: [criteria for inclusion](#))
- Not in DOAJ?
 - “Hybrid OA journal”
 - Very new journal
 - Low quality OA journals



OA Journals in Scopus and Web of Science

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<https://www.scopus.com/sources.uri>

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1 MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control. Open Access	87.75	99% 1/89 Epidemiology	1,053	12	100
2 MMWR. Surveillance summaries : Morbidity and mortality weekly report. Surveillance summaries / CDC Open Access	26.12	99% 2/247 Health (social science)	1,463	56	88
3 Journal of Statistical Software. Open Access	25.02	99% 1/123 Statistics, Probability and Uncertainty	6,631	265	70
4 Living Reviews in Relativity. Open Access	19.77	98% 1/46 Physics and Astronomy (miscellaneous)	257	13	85
5 Living Reviews in Solar Physics. Open Access	15.57	98% 2/76 Astronomy and Astrophysics	218	14	100

Web of Science

- > 5500 OA Journals indexed
- Journal Citation Reports:
<https://jcr.clarivate.com/>

InCites Journal Citation Reports

Clarivate Analytics

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Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	Living Reviews in Relativity	2,819	27.778	0.00521
2	Lancet Global Health	6,109	15.873	0.03434
2	Lancet Global Health	6,109	15.873	0.03434
4	Advanced Science	8,129	15.804	0.02103
5	Living Reviews in Solar Physics	1,071	14.625	0.00261
6	Light-Science & Applications	5,894	14.000	0.01917
7	ACS Central Science	4,160	12.837	0.01783
8	Science Advances	21,901	12.804	0.10997
9	Physical Review X	13,462	12.211	0.07426

How to assess the quality of OA Journals

- Included in DOAJ?
- Read some articles in the journal!
- Have a look at the journal's website!
- Have a look at the editorial board!
- Is the publisher a member of [OASPA](#) (Open Access Scholarly Publishers Association) or [COPE](#) (Committee on Publication Ethics)?
- More tips: [Think. Check. Submit. Open Access Journal Quality Indicators](#)
- Do not trust «blacklists» of *predatory* journals. Use critical thinking.



Are you submitting your research to a trusted journal?

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Business Models for Open Access Journals

• Institutional Funding

- Costs are covered by an institution, society etc.
- [Documenta Mathematica](#), funded by the Deutsche Mathematiker-Vereinigung
- [RILEM Technical Letters](#), funded by the International Union of Laboratories and Experts in Construction Materials, Systems and Structures

• Consortial Funding and Crowdfunding

- [Palaeontologia Electronica](#), sponsored by several scientific societies
- [SCOAP³](#), Initiative based at CERN to convert core high energy physics journals to OA
- Subscribe to Open, e.g. 8 journals from [Annual Reviews](#)
- [SciPost](#) managed by scientists via a foundation

• Author pays (Article Processing Charges – APC)

- Author are charged a publication fee after acceptance of the article
- The cost of APCs varies considerably depending on the publisher and the journal
 - Median APC: 2000 EUR ([OpenAPC](#), Dec 2023)
 - *Acta Palaeontologica Polonica* 22 EUR
 - *Cell Genomics*: 7960 EUR

How to pay the APC

Is the publication an outcome of a funded project?

SNSF

- The SNSF offers funding for articles in pure Open Access journals.
- Funding is independent from the project budget and application can be submitted at any time, even after the project has ended.
- Guidelines: <https://oa100.snf.ch/en/funding/journal-articles/>

European Commission (Horizon 2020)

- Fees for Open Access publications in pure and hybrid Open Access journals can be claimed as project expenses.
- Reimbursement only during the duration of the grant.

Bill & Melinda Gates Foundation

- The foundation pays publication fees required by a publisher.
- To access this funding, authors will need to use the [Chronos](#) system.

Open Access agreements (full OA journals)

- The library has agreements about free OA publishing with several publishers of full OA journals
- APCs are paid by the library. Authors are not charged for their articles.

Lib4RI has agreements with the following OA publishers (pure OA journals):

- ✦ Copernicus
- ✦ Frontiers
- ✦ MDPI
- ✦ ACS
- ✦ Elsevier (still no agreement for 2024; article submitted until 31.12.23 are covered)
- ✦ IEEE
- ✦ IOP Publishing
- ✦ IWA
- ✦ Royal Society
- ✦ SAGE

- Requirements: **corresponding/submitting author** has to be (co-)affiliated with Eawag/Empa/WSL/PSI.
- Mind the gap! Eligible journals, eligible article types, article quota, workflow...
- Further information, lists of eligible journals, workflow, eligibility criteria:
<https://www.lib4ri.ch/open-access-agreements>

Open Access Publication Fund

The library pays Open Access fees for publications in full Open Access journals.

Funding conditions:

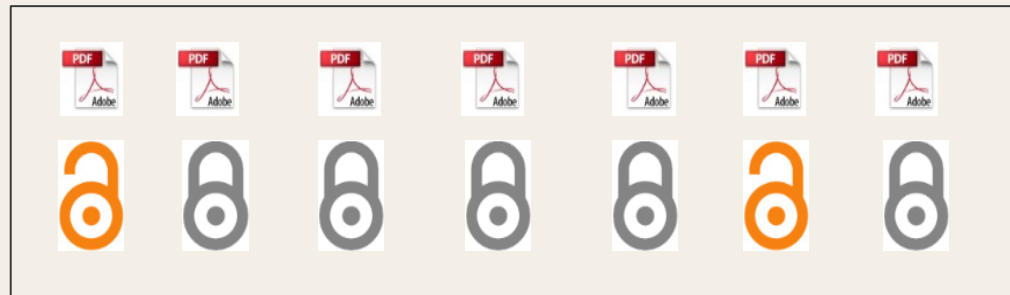
- The **submitting author** must have a demonstrable relationship with Eawag/Empa/ PSI/WSL and the (co-) **affiliation with Eawag/Empa/PSI/WSL** must be clearly stated on the article.
- Only **pure OA journals**, see [Directory of Open Access Journals \(DOAJ\)](#). [no hybrid OA journals]
- The article is published under a [Creative Commons licence](#) (preferably [CC-BY](#)).
- Articles will be considered only if there is **no other source of funding available**. We expect researchers to request funding for OA publications from their funding agency if they can do so.
- The article processing charges for publications may **not exceed CHF 2`500** per article (excl. VAT).
- **Do not pay the APC!** Financing your publication is only possible if the invoice still has to be paid, there will be no retrospective payments or reimbursements.
- Application: Submit the invoice (with «our» billing address) + the accepted manuscript to openaccess@lib4ri.ch.
- Further information: <https://www.lib4ri.ch/open-access-fund>

Hybrid Open Access Journals

Hybrid OA Journals

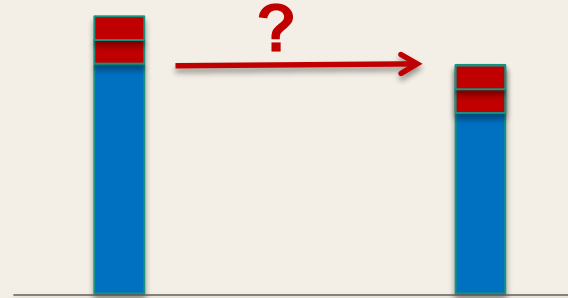
Closed Access
No free reading

- **Subscription journals** with an **Open Access option** for individual articles
- Authors decide if they want to make their articles OA (for a fee)
- Most subscription journals offer an OA option (Springer Open Choice, Wiley Online Open ...)
- **Mixed Content:** Closed Access and OA articles in one journal



Hybrid Open Access – The Problem

- ↪ Revenues for a journal
 - „Author pays“ APC
 - +
 - „Library pays“ subscription



- ↪ The Problem: **double dipping**
- ↪ All major publishers have issued statements that measures were put in place to prevent double dipping, and that list prices are reduced proportionally. But..
 - » List prices of journals \neq Subscription prices (journal bundles etc.)
 - » Subscription prices are hidden behind non-disclosure agreements
- ↪ Benefit for authors: publish OA in prestigious, well-known journal (at a premium price)

Read & Publish Agreements

Subscription for reading access + **free Open Access publishing** for a single flat fee paid by the library.

Lib4RI covers the APCs for the following publishers:

↗	ACS	articles resulting from SNSF funding are excluded!
↗	AIP	
↗	Cambridge Uni. Press	New in 2024
↗	Elsevier	no agreement for 2024; article <u>submitted</u> until 31.12.23 are covered
↗	IOP	
↗	Microbiology Society	
↗	Nature	article quota exhausted for 2023; no more free OA in 2023! Back in 2024.
↗	Royal Society	
↗	Royal Society of Chemistry	New in 2024
↗	Sage	
↗	Springer	
↗	Oxford University Press	
↗	Wiley	

- Requirement: **corresponding author** has to be (co-)affiliated with Eawag/Empa/PSI/WSL
- Further Information, title lists, workflow, eligibility criteria:

<https://www.lib4ri.ch/open-access-agreements>

Read & Publish Agreements

General workflow:

- Submit your manuscript using your institutional e-mail address.
- After acceptance:
 - Identify yourself as a member of Eawag/Empa/PSI/WSL (select your affiliation, e-mail, IP)
 - Select Open Access for your paper
 - Select a Creative Commons license for your paper (CC BY, CC BY-NC, CC BY-NC-ND, etc.)
 - Highly recommended: **CC BY = Creative Commons Attribution 4.0**
- Publisher and library handle the invoice process / APC approval
- More details for workflows at each publisher:
<https://www.lib4ri.ch/open-access-agreements>

Elsevier: Author Workflow

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Click on 'Complete the Rights and Access information form' or make changes and resubmit link in case you already completed the journey previously

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Green Road to Open Access

Green Open Access - Copyright

- Subscription publishers usually require authors to **transfer copyright** or grant them an exclusive license to publish their work.
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- After a certain period of time after publication (**embargo**)
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- **When?** Immediately | After embargo period of 3-60 months
- **Which version?** Submitted version | Accepted version | Published version

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- Publisher/journal website
- SHERPA/RoMEO Database: <http://www.sherpa.ac.uk/romeo>

Neuro-Oncology

Publication Information

Title	Neuro-Oncology (English)
ISSNs	Print: 1522-8517 Electronic: 1523-5866
URL	http://neuro-oncology.oxfordjournals.org/
Publishers	Society for Neuro-Oncology [Associate Organisation] Oxford University Press (OUP) [University Publisher]

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Accepted Version [pathway c]	12m PMC PMC	+
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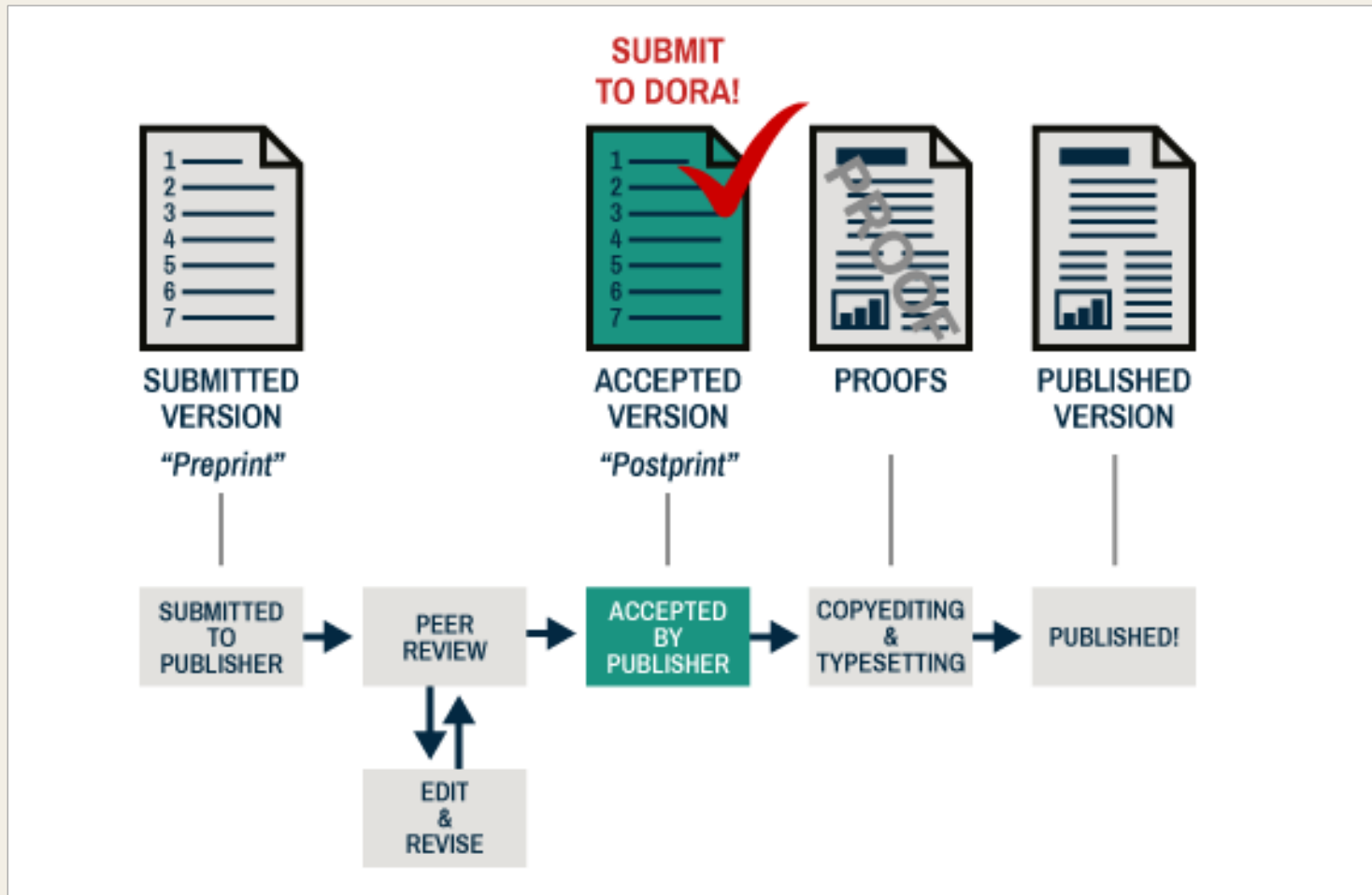
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Full service for Green OA at Lib4RI

The screenshot shows a navigation bar with 'Browse | WSL Authors | **Add Publication** | Help'. Below is a search bar and an 'Advanced Search' link. The main content area is divided into sections: 'States' (with 'N, Peters'), 'Fulltext:' (with 'Published Version Intranet Only'), 'Links:' (with 'View at Publisher (DOI)', 'View at Web of Science', and 'View at Scopus'), 'Citation Counts:' (with 'Web of Science: 163', 'Scopus: 162', and 'Crossref: 171'), 'Altmetrics:' (with a circular icon showing '171'), and 'Feedback:' (with 'Suggest a Correction', **Submit an Accepted Version**, and 'Add a DOI for Research Data'). Red circles highlight 'Add Publication' and 'Submit an Accepted Version', with red arrows pointing to the text on the right.

together with the published version via web form

via email to dora@lib4ri.ch

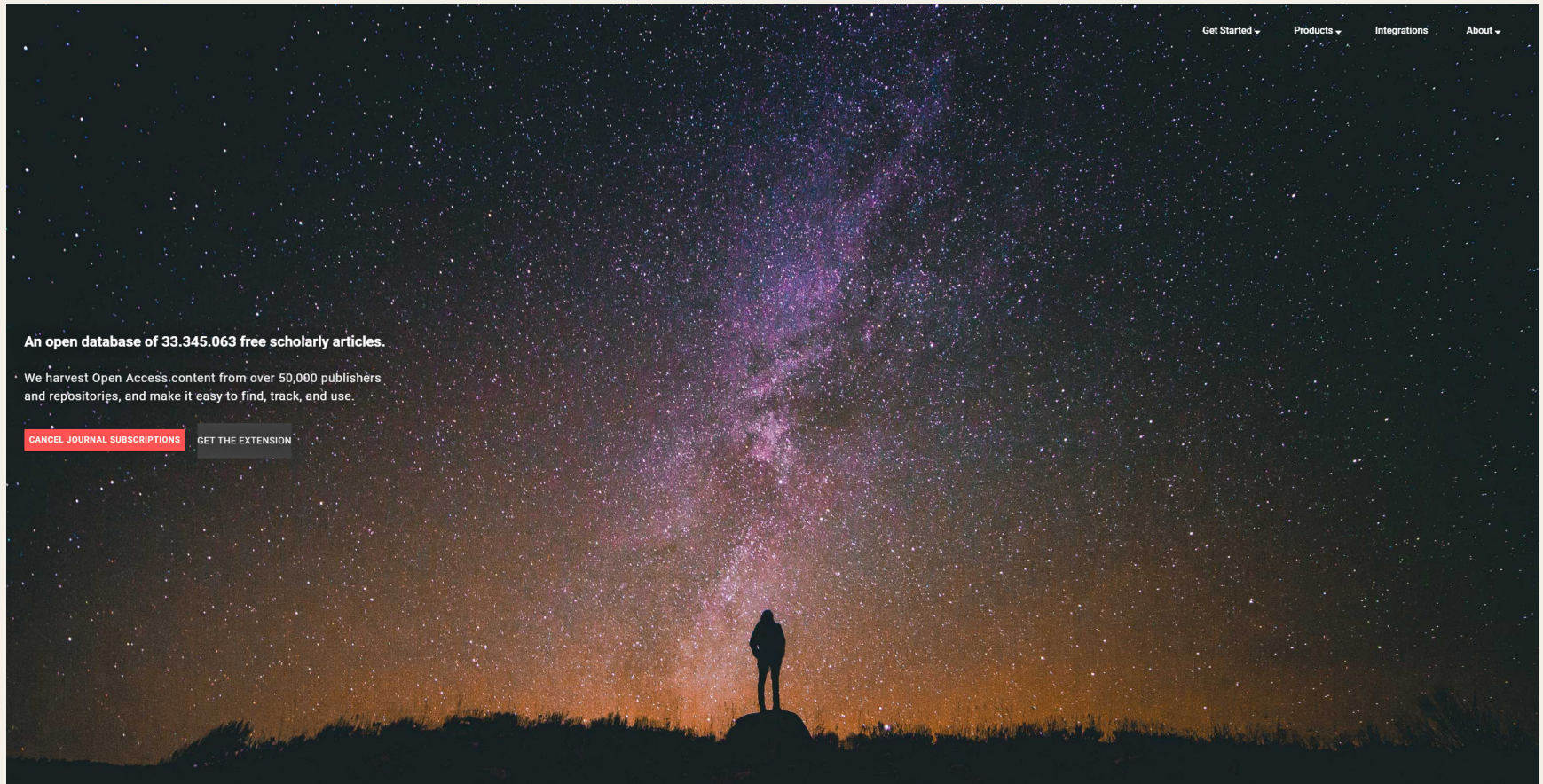
via the feedback section

- ↗ if published version is not OA
- ↗ might need to contact the corresponding author to get the accepted version
- ↗ preferably immediately after publication
- ↗ also for any journal article already in DORA
- ↗ **content of accepted version = content of published version**
- ↗ remove any comments, highlights, reviewer comments

We take care of the rest:

- ↗ add a citation to the final published version
- ↗ add a licence, if necessary
- ↗ embargo period
- ↗ conversion into PDF/A

Unpaywall <https://unpaywall.org/>



- database collects links to free versions of articles

Unpaywall integration in Web of Science, Scopus, ...

The screenshot displays the Web of Science interface with the following elements:

- Header:** Clarivate logo, English language selector, and Products menu.
- Search Bar:** Contains the text "Paul Scherrer Institute (Affiliation)".
- Buttons:** "Analyze Results", "Citation Report", and "Create Alert".
- Refined By:** Document Types: Article, Open Access: Green Accepted, Publication Years: 2021.
- Results:** 355 results from Web of Science Core Collection for: "Paul Scherrer Institute (Affiliation)".
- Refine results:** Search within results... and Filter by Marked List.
- Quick Filters:** Highly Cited Papers (12), Hot Papers (1), Open Access (355), Associated Data (25), Enriched Cited References (102).
- Citation Topics Meso:** 5.9 Particles & Fields (86), 8.124 Environmental Sciences (39), 5.30 Superconductor Science (23), 2.41 Catalysts (21), 2.62 Electrochemistry (12).
- Authors:** Show Researcher Profiles, Goldstein, J. (71), Horisberger, R. (71), Kleinwort, C. (71), Adam, W. (70), Andrea, J. (70).
- Article 1:** "Time Resolution of BC422 Plastic Scintillator Read Out by a SIPM" by Stoykov, A and Rostomyan, T. Jul 2021 | IEEE TRANSACTIONS ON NUCLEAR SCIENCE. 68 (7), pp.1487-1494. 9 References. Includes a red circle around the "Free Accepted Article From Repository" link.
- Article 2:** "Boundary Layer Flashback Limits of Hydrogen-Methane-Air Flames in a Generic Swirl Burner at Gas Turbine-Relevant Conditions" by Ebl, D and Jansohn, P. Aug 1 2021 | JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME. 143 (8). 2 Citations, 32 References. Includes a red circle around the "Free Accepted Article From Repository" link.
- Article 3:** "Metastability and Seeding Effects in the Mechanochemical Hybrid Lead(II) Iodide Formation" by Wilke, M, Gawryluk, DJ and Casati, N. Apr 1 2021 | Mar 2021 (Early Access) | CHEMISTRY-A EUROPEAN JOURNAL. 27 (19), pp.5944-5955. 2 Citations, 58 References.

The State of Open Access

Swiss National Strategy on Open Access

In a letter
SERI) c
(SNSF),
the need

4. Vision

Taking account of the principles expressed above, the Swiss National Strategy on OA aims to achieve the following objective, in accordance with international benchmarks: **by 2024, all scholarly publication activity in Switzerland should be OA**, all scholarly publications funded by public money must be freely accessible on the internet. The OA landscape will consist of a mix of OA models.

This na
adopted

1. V

Revolutionary developments in information technology have made it possible to share knowledge easily. A scientific culture characterised by its openness and by "the way researchers work, collaborate, interact, share resources and disseminate results"¹ is called Open Science. It implies a transformation of the publication culture and opening up of science and research. Open Science practices, in particular OA, are increasingly being adopted worldwide, reflecting the fact that publicly funded research results are a public good which can only be fully exploited if everyone has free access without any restrictions.

OA initiatives started mainly as a reaction of scientific communities to the unsustainable and cost-increasing developments in the scientific publishing landscape. Over the last few decades, subscription costs have soared and profit-oriented publishing houses have played a dominant role in the publication and dissemination of scientific works². Their position is based on the fact that researchers appreciate their content, work for them as authors, reviewers and editors and often feel obliged to publish their works with them - all based on the current evaluation and reputation mechanisms - in order to maintain optimal career chances. As a consequence, most of the publicly funded research is locked behind a paywall.

All over the world, OA initiatives offer a chance of providing broad-based open access to research results, bringing research back to the scientists and to the public that funds it. They also represent an opportunity to point out flaws and consequences of the current evaluation and reputation mechanisms in science. Research funding

Swiss Open Access Monitor



[About](#) [Charts & Data](#) [FAQ](#) [Wiki](#)

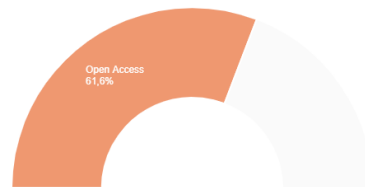
Welcome to the Swiss Open Access Monitor

*"By 2024, all scholarly publication activity in Switzerland should be OA, all scholarly publications funded by public money must be freely accessible on the internet."
(swissuniversities Swiss National Strategy on OA)*

The Swiss Open Access Monitor is the tool to monitor the progress of the implementation of Open Access at national level. [More](#)

Open Access shares at national level

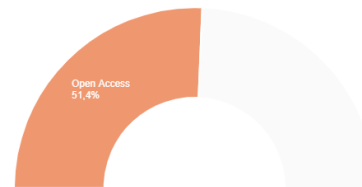
Journal Monitor (OAM-CH)



Open/Closed ratio of journal articles in Switzerland for 2018-2022 based on the Journal Monitor (OAM-CH).

[More Journal Monitor](#)

Repository Monitor



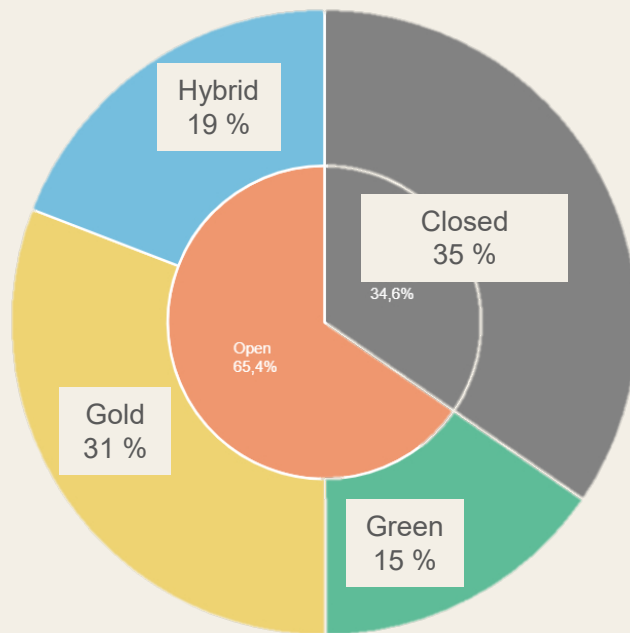
Open/Closed ratio of journal articles, books, book parts and conference papers in Switzerland for 2018-2021 based on the national survey.

[More Repository Monitor](#)

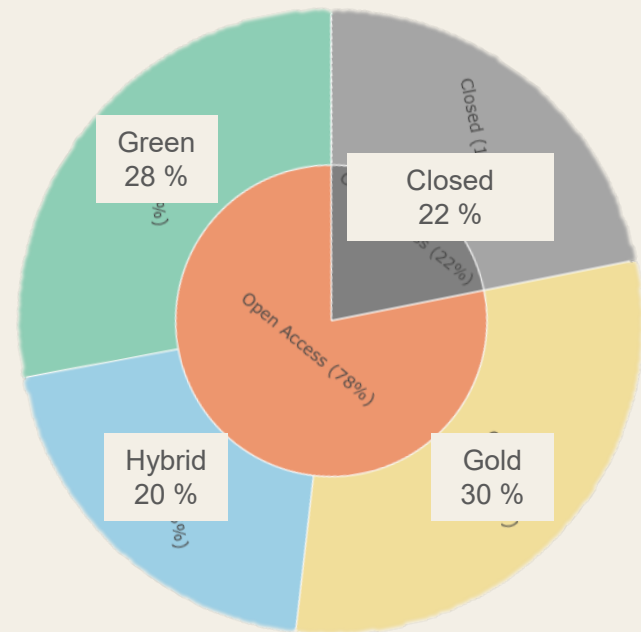
<https://oamonitor.ch/>

Journal Articles 2018-2022

Switzerland



Eawag, Empa, PSI & WSL



State of Open Access at the 4RI

	DORA Eawag	DORA Empa	DORA PSI ¹	DORA WSL	Total
Journal Articles in 2023	459	748	1 128	735	3 070
Open Access	391 85.2%	582 77.8%	893 79.2%	593 80.7%	2 459 80.1%
With embargo	43 9.4%	101 13.5%	101 9.0%	83 11.3%	328 10.7%
Restricted	25 5.4%	65 8.7%	134 11.9%	59 8.0%	283 9.2%

Source: DORA > About <https://www.dora.lib4ri.ch/about>

Summary

New Lib4RI Search Tool

↵ <https://www.lib4ri.ch/>

↵ Tab «Journals»

↵ Information on OA options:

- » Agreements with publishers
- » Gold OA (DOAJ)
- » Green OA options (SherpaRomeo)

BETA
Version

climate

Articles, Books etc. Journals

Journal List unfold all

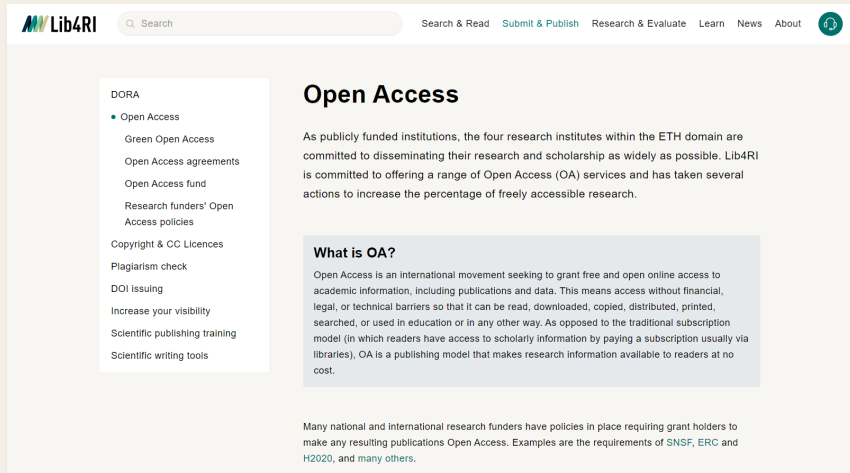
Journal	Information for Publishing
Climate Available online (2013-) Publisher: MDPI AG Publication Period: 2013- ISSN : 2225-1154 E-ISSN : 2225-1154	Information for Publishing — Peer Reviewed Journal Impact Factor: check online → Lib4RI Open Access Agreement (details) <ul style="list-style-type: none">• agreement in place• License: CC BY 4.0 → Gold Open Access Journal (details) <ul style="list-style-type: none">• APC required: up to 1600 CHF (details)• check Lib4RI Fund (if APC < CHF 2500)• License: CC BY
Journal of Climate Available online (1988-) Publisher: American Meteorological Society Publication Period: 1988- ISSN : 0894-8755 E-ISSN : 1520-0442 Earlier Title: Journal of Climate and Applied Meteorology	Information for Publishing — Peer Reviewed Journal Impact Factor: 5.38 (details) → Green Open Access (details) <ul style="list-style-type: none">• Published Version<ul style="list-style-type: none">◦ Embargo: 12 Months• Published Version<ul style="list-style-type: none">◦ Embargo: 6 Months◦ Author must be affiliated to institution

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

Summary (& some suggestions)

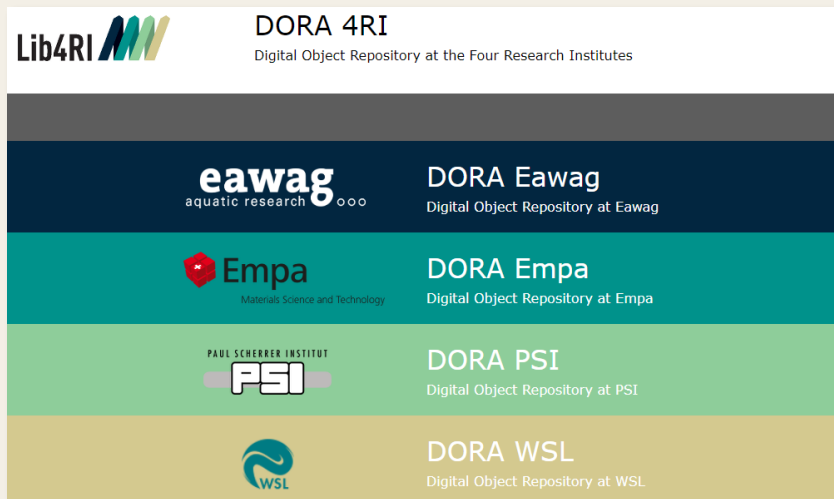
- Open Access has **benefits** for you, your institution, science and society.
- Get to know the **pure OA journals** in your field. **Funding is available** for publishing in pure Open Access journals (SNSF, Lib4RI Open Access Fund).
- **Open Access agreements** with publishers allow you to publish Open Access in >6000 journals without additional costs.
- Not all forms of Open Access **cost \$\$\$**. Green Open Access is free and takes just 5 minutes of your time.
- Make it a habit to **submit the accepted manuscript** of every closed access paper to DORA.

Support for Open Access at Lib4RI



The screenshot shows the Lib4RI website's Open Access page. At the top, there is a navigation bar with 'Lib4RI' and a search bar. Below the navigation, a sidebar on the left lists various services: DORA, Open Access, Green Open Access, Open Access agreements, Open Access fund, Research funders' Open Access policies, Copyright & CC Licences, Plagiarism check, DOI issuing, Increase your visibility, Scientific publishing training, and Scientific writing tools. The main content area is titled 'Open Access' and contains a paragraph explaining that publicly funded institutions within the ETH domain are committed to disseminating their research as widely as possible. Below this, a box titled 'What is OA?' defines Open Access as an international movement seeking to grant free and open online access to academic information. At the bottom, a note mentions that many national and international research funders have policies requiring grant holders to make any resulting publications Open Access.

<https://www.lib4ri.ch/services/open-access.html>



The screenshot shows the DORA 4RI website, which is a Digital Object Repository at the Four Research Institutes. The page features a header with the Lib4RI logo and the text 'DORA 4RI Digital Object Repository at the Four Research Institutes'. Below the header, there are four colored sections, each representing a research institute's DORA repository: Eawag (aquatic research), Empa (Materials Science and Technology), PSI (Paul Scherrer Institut), and WSL.

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

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Questions?

Presentation slides: lib4ri.ch > Services > Trainings
Please provide us with your feedback!

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