

Open Access in Geosciences: What geoscientists at Freie Universität need to know



University Library, Freie Universität Berlin

Steffi Grimm (Team Open Access and Academic Publishing)

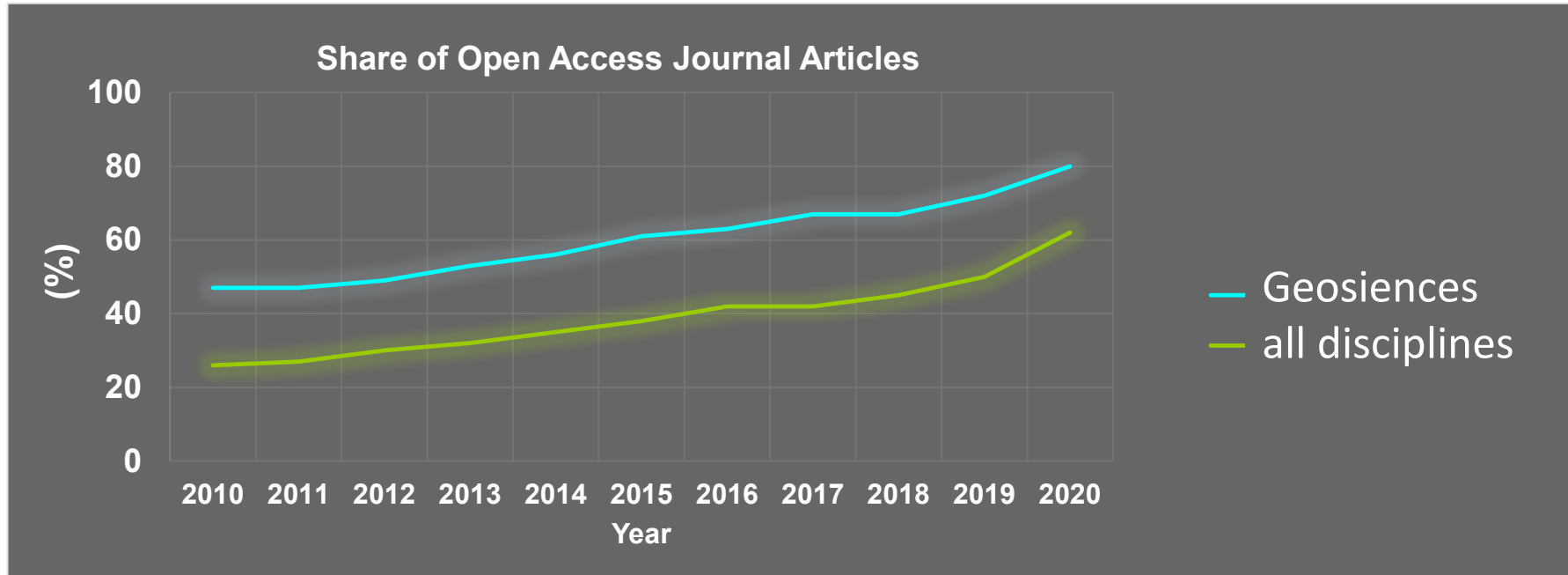
Dr. Andreas Hübner (Liaison Librarian Geosciences)

Dr. Christina Riesenweber (Team Open Access and Academic Publishing)

15 June 2022



Open Access in Germany's Geosciences



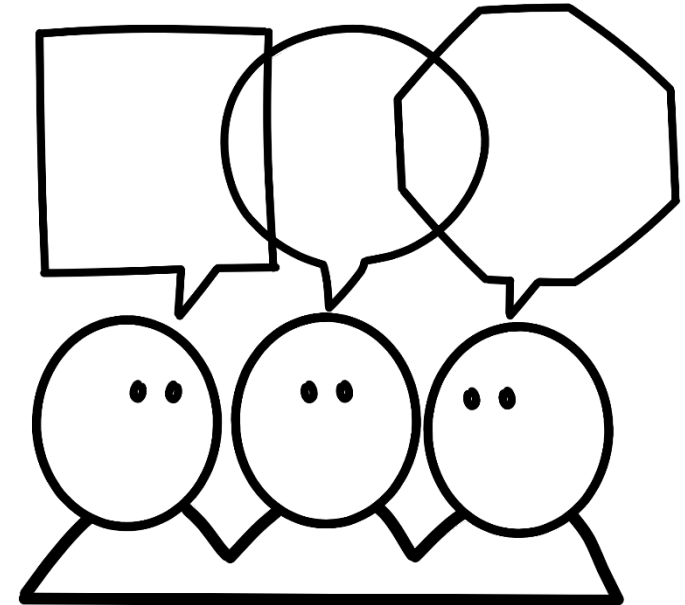
Daten aus: Mittermaier, B., 2021, Die Transformation des Publikationswesens in den Open Access: Stand und Entwicklungen.
<https://www.fidgeo.de/geowissenschaftliches-publizieren-trends-strategien-und-praxis-2/>

What's on the agenda today?

1. Open Access Basics
2. Open Access through Repositories
3. Open Access with Publication Charges
4. Practical Application Geosciences
5. Goals and Challenges of Open Access
6. Open Access without Publication Charges
7. Services and Resources

Check-In

- How much do I know about Open Access?
 - I have practical experience.
 - I know some basics.
 - This is new for me.



OA services at Freie Universität

- Consulting, workshops and events
- Funding for OA publication fees (journal articles, books, edited volumes)
- Secondary publication via repository (Refubium)
- Journal Hosting (Open Journal Systems)
- New publication formats (Open Encyclopedia Systems)
- www.fu-berlin.de/open-access



Open Access at Freie Universität

Freie Universität Berlin has been active in supporting the idea of open access for many years.

- › Open Access Policy of Freie Universität Berlin
- › Stakeholders
- › About Open Access

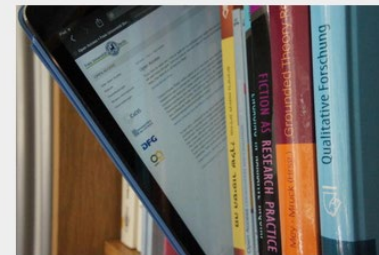
› Image Credits



Institutional Repository

All university members of Freie Universität can deposit their publications in the Institutional Repository.

- › Institutional Repository
- › Terms of Use
- › Legal Information



Support of Journals and Monographs

CeDis supports open access activities of researchers affiliated with Freie Universität Berlin through its various services in the field of e-publishing.

- › E-Publishing



Events

- › Open Access Events at Freie Universität Berlin
- › Open Access Workshops

OPEN ACCESS BASICS

What is Open Access?

Open access definition in the Berlin declaration (2003)

- free access to scientific knowledge
- right to use, re-use and transmit
- attribution of authorship
- digital standard formats

[Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities](#) (2003)

The Internet has fundamentally changed the practical and economic realities of distributing scientific knowledge and cultural heritage. For the first time ever, the Internet now offers the chance to constitute a global and interactive representation of human knowledge, including cultural heritage and the guarantee of worldwide

Open access as default: policies and conditions

EU: Open access as guiding principle (since 2014): [Horizon Europe](#): "Mandatory open access to publications and open science principles are applied throughout the programme."



Plan S and cOAlition S (2018): www.coalition-s.org



Germany (2016): Open Access shall become the default of academic publishing.
www.bmbf.de/pub/Open_Access_in_Deutschland.pdf



Wir werden mit Citizen Science und Bürgerwissenschaften Perspektiven aus der Zivilgesellschaft stärker in die Forschung einbeziehen. **Open Access** und Open Science wollen wir stärken.

Berlin (2015)

60% Open Access (Gold & Green by 2020 for journal articles)

www.open-access-berlin.de



Open Access Policy of Freie Universität (2008/2021)

www.fu-berlin.de/open-access/akteure/oa-policy



Freie Universität Berlin shall recommend that all members of the university initially publish their work as open access under an open license, preferably CC BY.

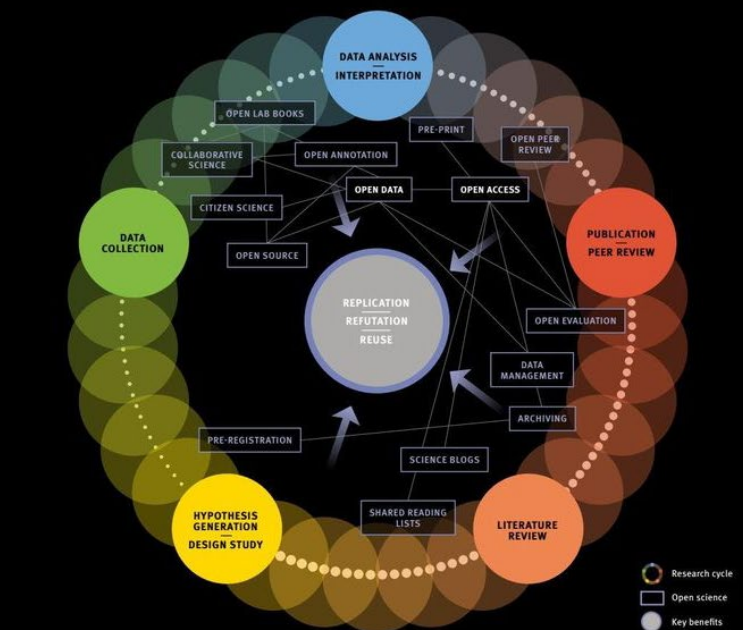
- + recommendation for green OA
- + support and services
- + research data
- + ORCID

Freie Universität Berlin shall encourage members of the university to get involved with recognized open access publication bodies by taking on roles related to publishing, editing, and reviewing.

→ https://www.fu-berlin.de/en/sites/open_access/akteure/oa-policy

The elements of open science

This grassroots movement has created a plethora of new concepts. Here's an overview.



Open science glossary

Archiving - Long-term storage of research results
Citizen science - Research conducted by non-scientists
Data management - Long-term maintenance of research databases
Shared reading lists - Putting your personal literature lists on open online access
Collaborative science - Solving problems together, e.g. on a blog
Open access - Free access to scientific articles
Open comment - Research data (genomics, editions etc.) are commented on and supplemented

Open data - Raw research data placed on open access to other researchers
Open evaluation - Public online evaluation of a published article
Open lab books - Lab notebooks placed online and discussed in public
Open peer review - Public, non-anonymous peer review of an article before publication, or as part of an evaluation
Open science - Open, transparent and collaborative science
Open source - Software and hardware that can be used and developed freely
Pre-registration - Announcing a research plan in advance, in order to exclude the

possibility of a-posteriori modifications
Replication - Reproducing and validating earlier research results
Pre-print - Manuscripts made generally available before official publication
Science blogs - Critical discussions of research results by scientists and journalists
Rxuse - Getting new knowledge from existing research data
Refutation - Unsuccessful attempts to reproduce earlier research results

Tools:

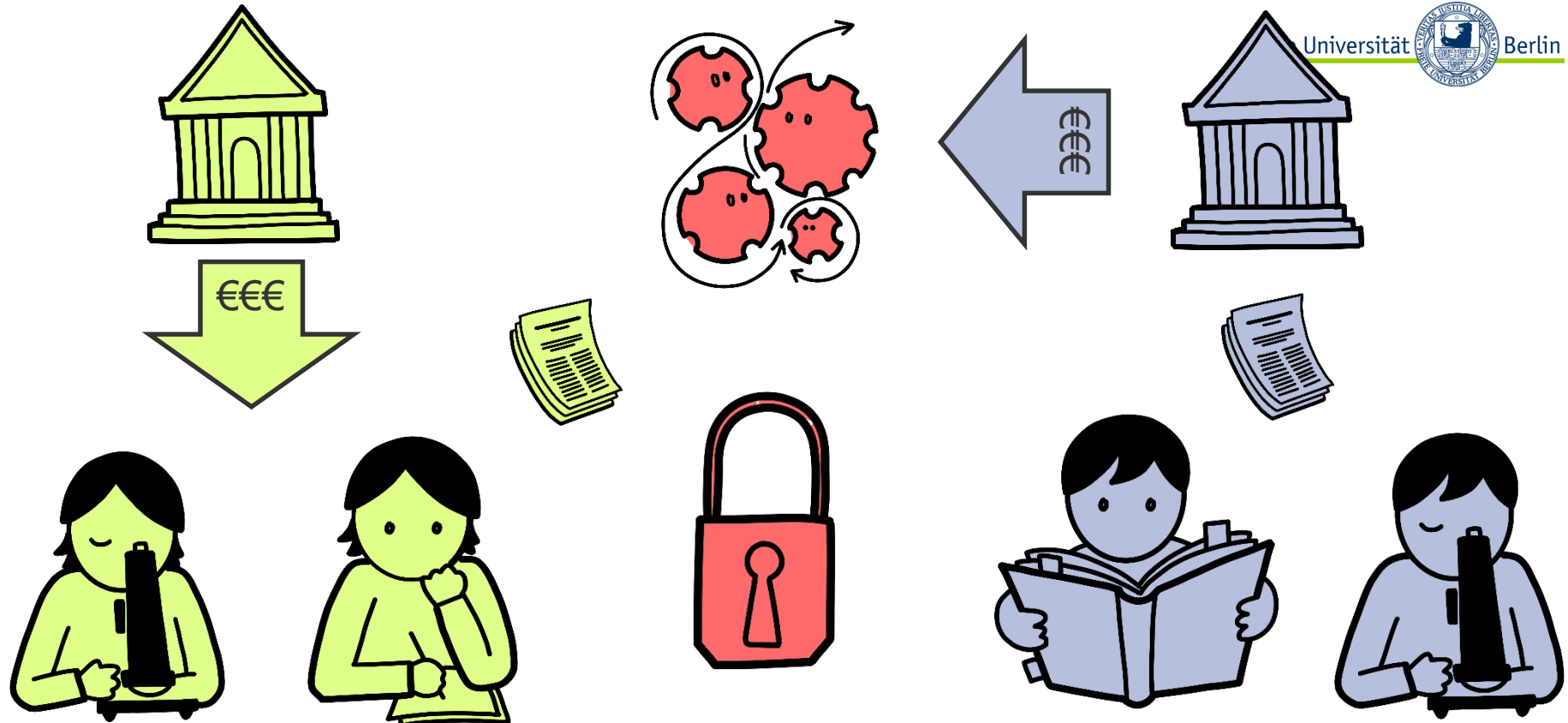
- List of tools: it.ly/Ho_tools, bit.ly/Ho_tools2
- Research workflow: osf.io
- Lab books: labguru.org, openmetware.org
- Annotation: topen.org (historical texts), opencontext.org (archaeological artefacts), hypothes.is (web pages)
- Research data repositories: re3data.org (list), datadryad.org, openresearchdata.ch, chan.org (data management tool)
- Other repositories: figshare.com (data, figures and misc.), github.com (software and notes), zenodo.org (misc.)
- Pre-print archives: arxiv.org, biorxiv.org, SSRN.org, PeerPreprints.org
- Open evaluation: thinklab.org (proposals), ACPdiscussion.org (articles), P1000.org (recommendations), PubPeer.com (comments)

Open Science / Open Research

Opening up the entire research cycle, e.g.

- Pre-registration
- Research Data
- Research Software
- Preprints
- Open Access
- Open Peer Review

Graphic: Daniel Saraga,
www.horizons-mag.ch/2016/08/31/the-elements-of-open-science/ License: [CC-BY-NC-ND](https://creativecommons.org/licenses/by-nc-nd/4.0/)

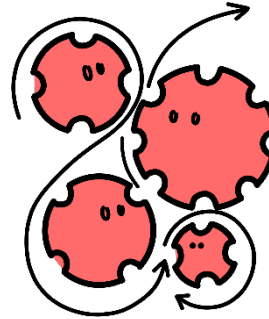


The practice of academic publishing (ca. 1950-1990ff.)

The role of publishers

Contribution of research community

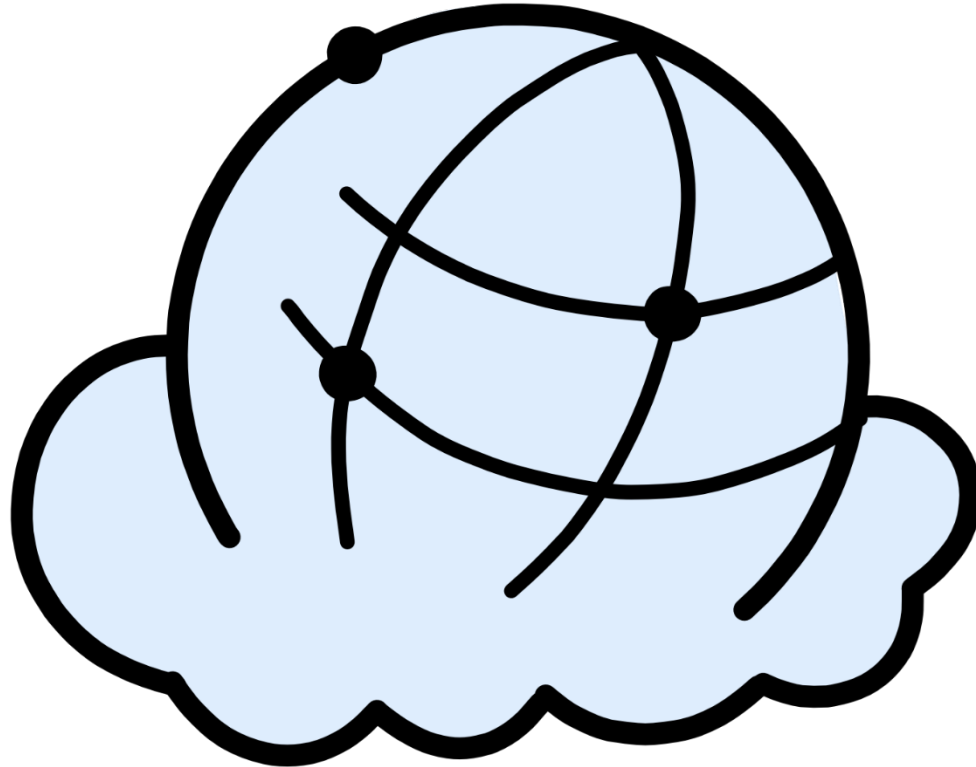
- Editorial Board
 - Managing Editors
 - Content planning
 - Authorship
 - **Peer Review**
 - Copy editing & proof reading
 - Layout, typesetting
 - etc.
-
- Author's rights 



Services provided by publishers

- Print & distribution
 - Online production & distribution
 - Abstracting, indexing, marketing
 - Copy editing & proof reading
 - Layout, typesetting
 - etc.
-
- Exclusive Copyright 

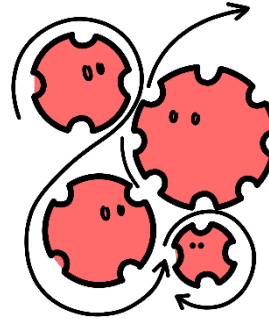




The role of publishers

Contribution of research community

- Editorial Board
- Managing Editors
- Content planning
- Authorship
- **Peer Review**
- Copy editing & proof reading
- Layout, typesetting
- etc.
-  Author's rights & some rights reserved



Services provided by publishers

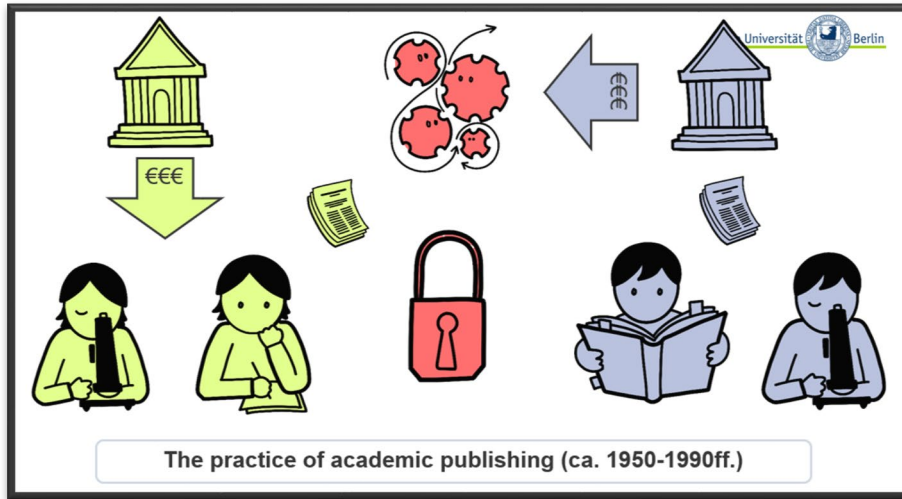
- Print & distribution
- Online production & distribution
- Abstracting, indexing, marketing
- Copy editing & proof reading
- Layout, typesetting
- etc.
- Non-exclusive publishing rights



Different routes to achieve open access:

- **Open access by secondary publication in a repository or archive (Green OA)**
- **Open access by primary publication in a genuine OA journal (Gold OA)**
 - with Article Processing Charges
 - without Article Processing Charges (Diamond OA)

OPEN ACCESS THROUGH REPOSITORIES

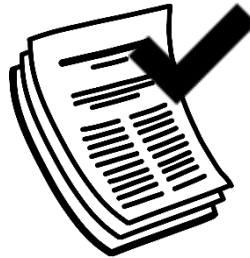


Which version am I allowed to use?

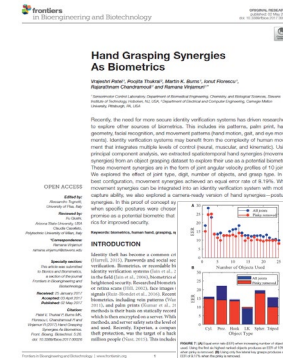
Which version you can use is dependent on the copyright holder (usually the publisher), and is sometimes subject to embargo periods



Submitted Manuscript



Accepted Manuscript



Publisher's version

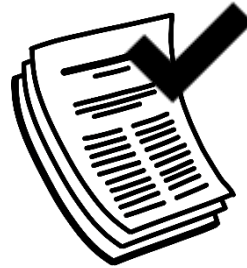
What are the publishers' conditions? www.sherpa.ac.uk/romeo/

Which version am I allowed to use?



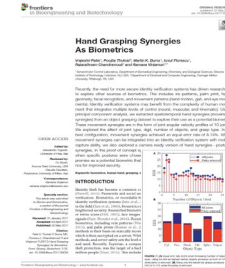
Submitted

- Original manuscript
- Synonyms:
 - Preprint
 - Submitted manuscript
 - Author's version
 - Original manuscript
 - Draft
 - Submitted version



Accepted

- Accepted manuscript, incl. changes after review
- No typesetting /editing by publisher
- Synonyms:
 - Postprint
 - Accepted manuscript
 - Final draft
 - Peer-reviewed version
 - Final author version



Publisher's Version

- Final published version
- Synonyms:
 - Version of record (VoR)
 - Published version
 - Publisher PDF
 - Final version

Secondary publication in a repository (Green OA)

Institutional repository at Freie Universität: <https://refubium.fu-berlin.de/>



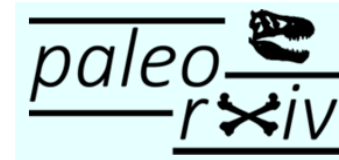
Discipline specific repository
<https://e-docs.geo-leo.de/>



General Repository: Zenodo (all disciplines and formats): <https://zenodo.org/>

What are the publishers' conditions? www.sherpa.ac.uk/romeo/

Preprint server: <https://eartharxiv.org/> & <https://paleorxiv.org/>
(for more info see <https://doi.org/10.1029/2019EO121347>)



- **no publication venues!**
- great for networking and connecting
- don't upload files
- link to open access publications instead

ResearchGate

Discover scientific knowledge and stay connected to the world of science

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Academia is the easiest way to share papers with millions of people across the world for free. A study published in *PLOS ONE* found that papers uploaded to Academia receive a 69% boost in citations over 5 years.



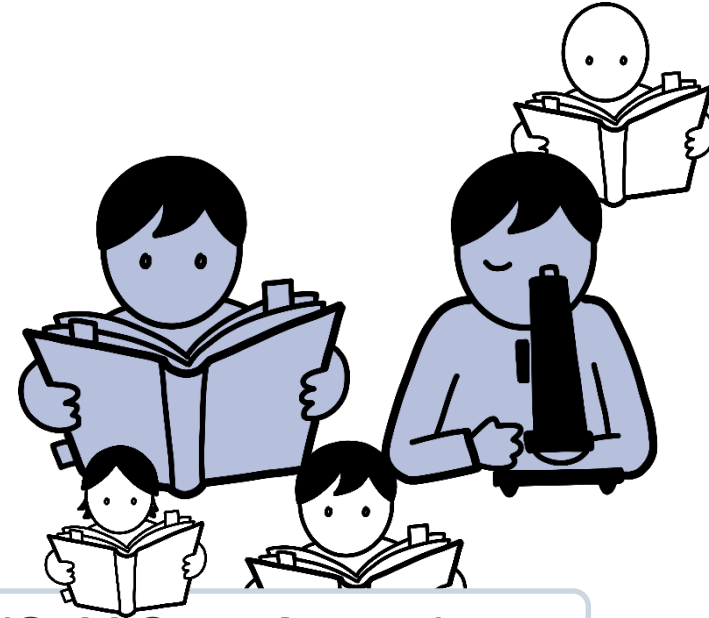
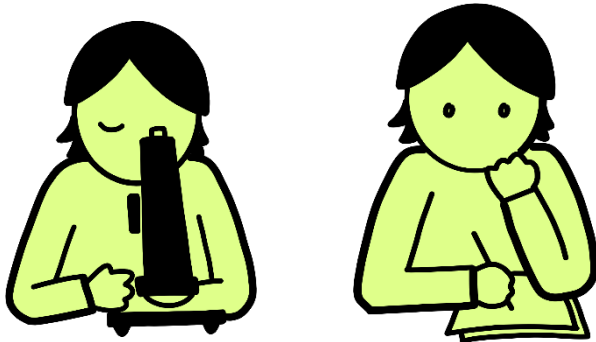
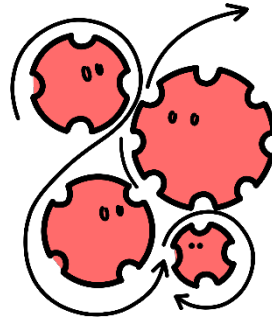
GOOGLE SIGN UP



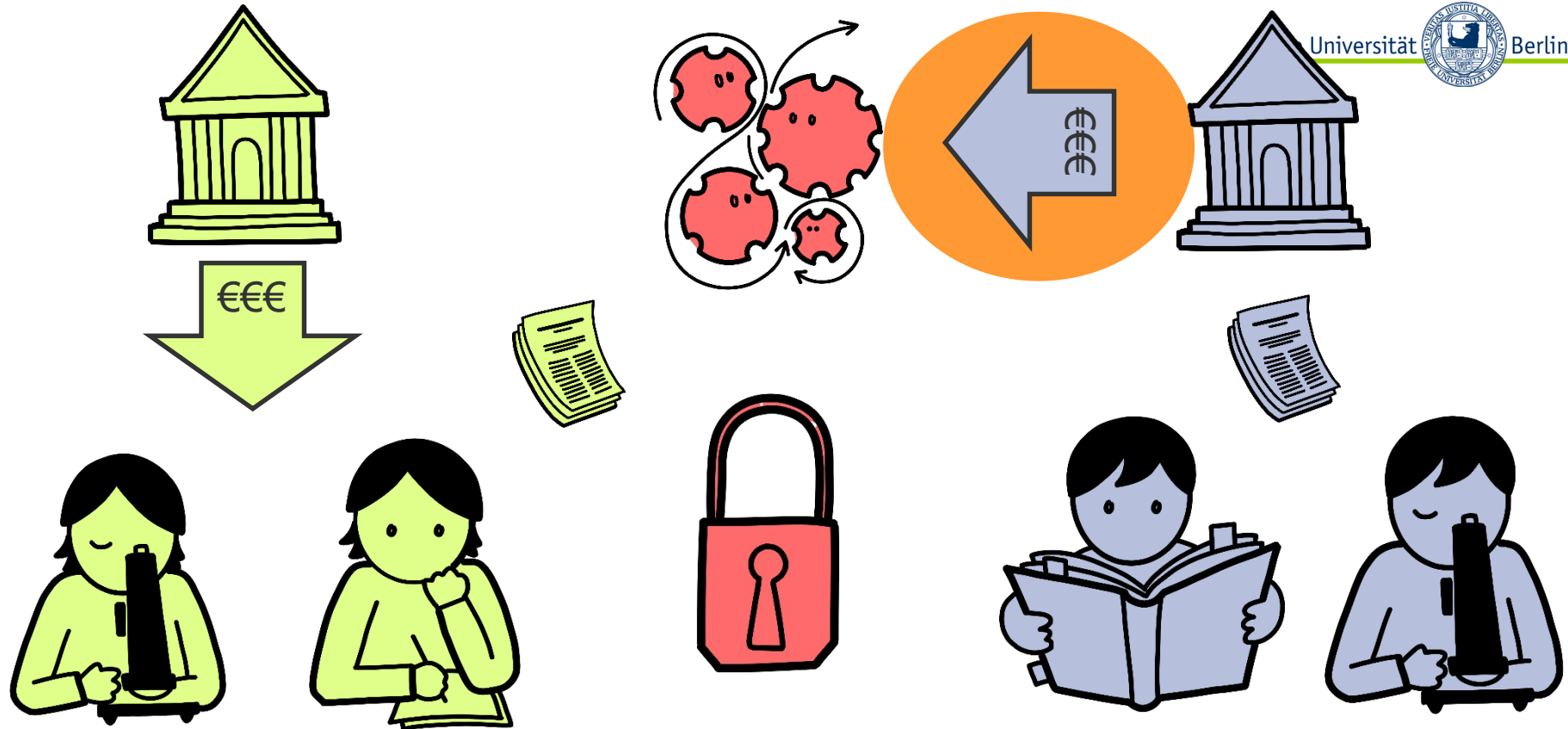
FACEBOOK SIGN UP

Do you have
any questions
so far?

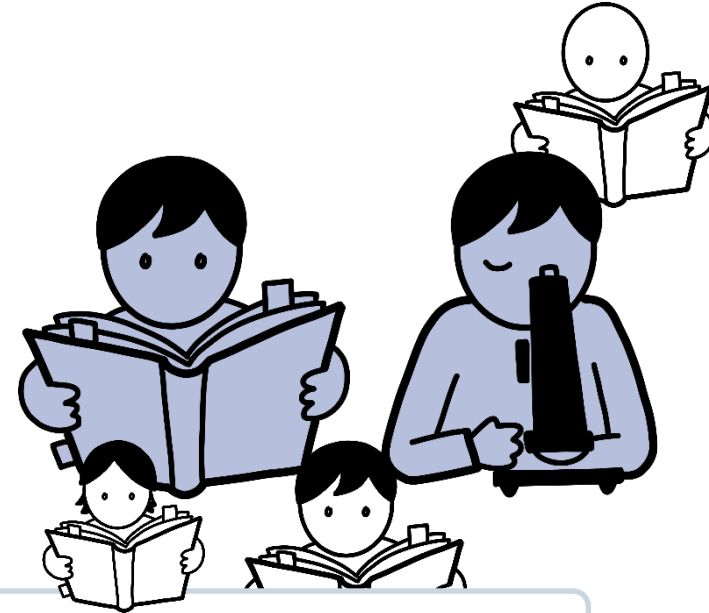
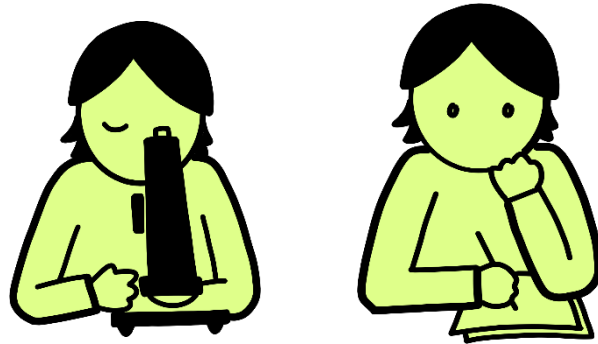
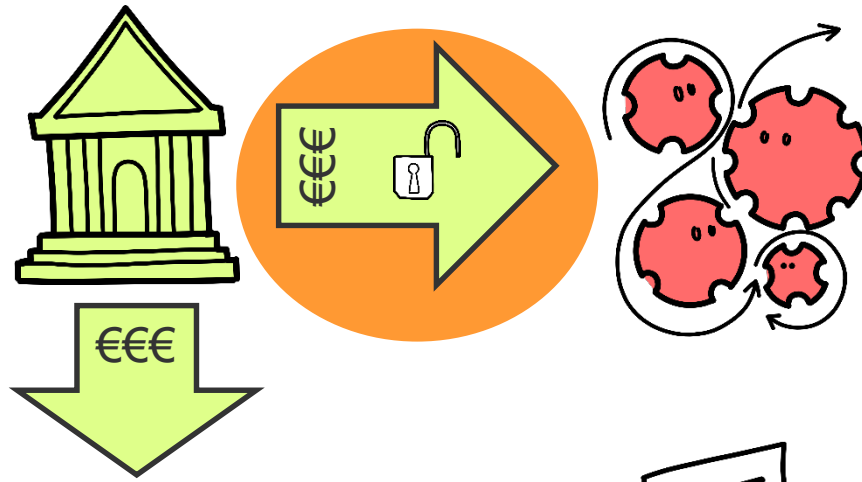
OPEN ACCESS WITH ARTICLE / BOOK PROCESSING CHARGES



Freely accessible primary publication (Gold Open Access)



The practice of academic publishing (ca. 1950-1990ff.)



Freely accessible primary publication (Gold Open Access) with APCs

- author / organisation pays fee per article to publisher / journal
 - average APC in Germany 2021:
1.771€ (VAT incl.; via [OpenAPC](#))
- many organisations negotiate special terms with publishers
- big deals with large publishers include reduced APCs, e.g. in Germany project DEAL with Springer Nature and Wiley



→ **Mainly in natural and life sciences**

Who is paying the APCs? – Research funders!

Funding organisations often require and support OA to published outputs that arise from their funding.

Check out research funders' OA policies and funding conditions: [Sherpa/Juliet](#)

Examples:

- European Commission ([Horizon Europe](#))
 - OA mandate (OA by immediate secondary publication)
 - funding available for APCs in genuine OA journals
- Deutsche Forschungsgemeinschaft ([DFG](#))
 - no OA mandate, recommendation
 - application of 750 € p.a. as part of a research proposal
 - “Publication Grants Programme”: individual researchers whose book publications do not result from DFG research funding are eligible to apply for funding



The University Library of Freie Universität Berlin funds:

- articles in genuine open access journals
- with discipline specific quality standards (e.g. peer review)
- APCs up to 2.000€ (VAT incl.), partial funding is not possible
- articles must be immediately freely accessible worldwide
- members of Freie Universität Berlin have to be submitting or corresponding author

The University Library of Freie Universität Berlin DOES NOT fund:

- publications in subscription journals with optional OA ("hybrid" journals)
- APCs higher than 2.000€ (VAT incl.)

→ https://www.fu-berlin.de/en/sites/open_access/finanzierung/

Who provides reduced APCs? - The University Library!

The University Library of Freie Universität Berlin has contracts with selected publishers. These agreements allow authors to publish open access either at a discounted publishing fee or free of charge.

Examples:

- Cambridge University Press (CUP)
- Copernicus Publications
- PLOS ONE
- Karger
- SAGE Journals
- Institute of Physics (IOP)
- Frontiers Media
- Springer Nature / Project DEAL
- Wiley / Project DEAL

→ https://www.fu-berlin.de/en/sites/open_access/finanzierung/institutionelle_mitgliedschaften/index.html

→ https://www.fu-berlin.de/en/sites/open_access/finanzierung/verlagsvereinbarungen/index.html

Project DEAL:

Nationwide OA agreements with large commercial publishers

Initiator: Alliance of Science Organisations in Germany

Eligible for participation: more than 700 German research organisations

Goals:

- immediate OA publication of all new research articles by authors from German institutions,
- permanent access to the publisher's complete journal portfolio,
- fair pricing for these services

For authors: reduced fees for gold OA journals + OA publication in hybrid journals, both fees are covered by the university library

Current contracts with: Wiley, Springer Nature

Negotiations on hold: Elsevier

More info: <https://deal-operations.de/en/> OR <https://www.projekt-deal.de/about-deal/>



- are often published as e-book and print edition
- usually funded via Book Processing Charges (BPCs)
 - range from 0 € to 18,500 €
 - **University Library offers (partial) [funding](#)!**
- publishers work out new financing models (e.g. Ruby Press: [OA book](#) + [print edition](#))
- libraries start consortia for OA book funding (e.g. [KOALA](#))
- More info: directory of open access books ([DOAB](#)) identifies publishing options:
-> e.g. “earth and environmental sciences”: 779 books listed!



Is there
anything that
needs
clarification?

Let's take
a break!

PRACTICAL APPLICATION GEOSCIENCES

DGG Strategie 2020+

Funding for open access publications, open educational resources, FAIR data and open science formats in order to create transparency in the research discourse.

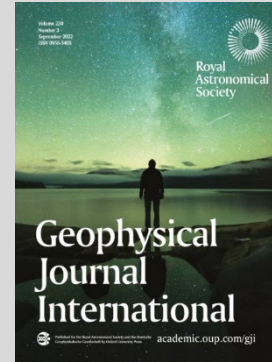
https://dgg-online.de/WordPress_01/wp-content/uploads/2020/11/DGG-Strategieplan_1103.pdf

Mitteilungen

Deutsche
Geophysikalische
Gesellschaft e.V.



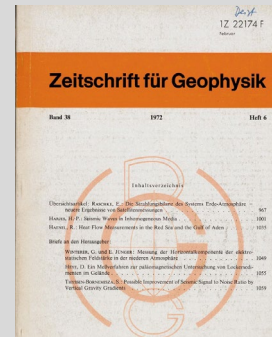
<https://e-docs.geo-leo.de/handle/11858/9600>



Authors can self-archive the „Version of record“!

See here: [Author Self-Archiving Policy](#)).

<https://dgg-online.de/publikationen/geophysical-journal-international/>



Zeitschrift für
Geophysik
1925-1988 digitised

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<https://www.european-journal-of-mineralogy.net/>

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PalZ Paläontologische Zeitschrift



Source: <https://www.springer.com/journal/12542>

International Journal of Earth Sciences GR Geologische Rundschau



Source: <https://www.springer.com/journal/531>

DEAL contract:

- corresponding authors from German institutions publish in Open Access
- central payment

EGU vision & strategy

Establish open access journals as the preferred publication mechanism for geoscience research

<https://www.egu.eu/about/strategy/#pub>



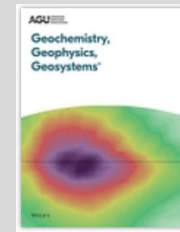
19 Open access peer-reviewed journals



<https://www.egu.eu/publications/open-access-journals/>



9 Open access peer-reviewed journals



<https://www.agu.org/Publish-with-AGU/Publish/Open-Access>

Publisher	Journal	FU central payments	APC
MDPI	Sustainability	10	
MDPI	Remote Sensing	10	
MDPI	Water	9	
MDPI	Land	8	
Wiley	Journal of Geophysical Research: Solid Earth	5	
Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	
Wiley	Journal of Geophysical Research: Planets	3	
Springer Nature	International journal of earth sciences	3	
Copernicus	Geoscientific Model Development	3	
Wiley	Geophysical Research Letters	3	
Copernicus	Earth System Dynamics	3	
Copernicus	Atmospheric Chemistry and Physics	3	

Publisher	Journal	FU central payments	APC
MDPI	Sustainability	10	2.000 CHF
MDPI	Remote Sensing	10	2.500 CHF
MDPI	Water	9	2.500 CHF
MDPI	Land	8	2.000 CHF
Wiley	Journal of Geophysical Research: Solid Earth	5	
Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	2.000 CHF
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	
Wiley	Journal of Geophysical Research: Planets	3	
Springer Nature	International journal of earth sciences	3	
Copernicus	Geoscientific Model Development	3	
Wiley	Geophysical Research Letters	3	
Copernicus	Earth System Dynamics	3	
Copernicus	Atmospheric Chemistry and Physics	3	

MDPI

- FU authors get 10% discount on article processing charges.
- Please note that the publication fee is fixed to 2000,00 CHF (excluding discount of 10%).

https://www.fu-berlin.de/en/sites/open_access/finanzierung/institutionelle_mitgliedschaften/index.html

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MDPI	Remote Sensing	10	2.500 CHF
MDPI	Water	9	2.500 CHF
MDPI	Land	8	2.000 CHF
Wiley	Journal of Geophysical Research: Solid Earth	5	
Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	2.000 CHF
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	
Wiley	Journal of Geophysical Research: Planets	3	
Springer Nature	International journal of earth sciences	3	
Copernicus	Geoscientific Model Development	3	
Wiley	Geophysical Research Letters	3	
Copernicus	Earth System Dynamics	3	
Copernicus	Atmospheric Chemistry and Physics	3	

Publisher	Journal	FU central payments	APC
MDPI	Sustainability	10	2.000 CHF
MDPI	Remote Sensing	10	2.500 CHF
MDPI	Water	9	2.500 CHF
MDPI	Land	8	2.000 CHF
Wiley	Journal of Geophysical Research: Solid Earth	5	2.750 €
Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	2.000 CHF
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	1.165 €
Wiley	Journal of Geophysical Research: Planets	3	2.750 €
Springer Nature	International journal of earth sciences	3	2.750 €
Copernicus	Geoscientific Model Development	3	
Wiley	Geophysical Research Letters	3	2.750 €
Copernicus	Earth System Dynamics	3	
Copernicus	Atmospheric Chemistry and Physics	3	



„Hybrid“ journals

1.600 Wiley journals

1.900 Springer Nature journals

2.750 €

per article

full-Open-Access-journals

110 Wiley journals

440 Springer Nature journals

20%

Discount

Publisher	Journal	FU central payments	APC
MDPI	Sustainability	10	2.000 CHF
MDPI	Remote Sensing	10	2.500 CHF
MDPI	Water	9	2.500 CHF
MDPI	Land	8	2.000 CHF
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Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	2.000 CHF
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	1.890 €
Wiley	Journal of Geophysical Research: Planets	3	2.750 €
Springer Nature	International journal of earth sciences	3	2.750 €
Copernicus	Geoscientific Model Development	3	
Wiley	Geophysical Research Letters	3	2.750 €
Copernicus	Earth System Dynamics	3	
Copernicus	Atmospheric Chemistry and Physics	3	

OA publishing process



Submission

Manuscript is submitted
Submitting author provides e.g. **FundRef** and **ORCID** information, article category is assigned
Peer review is conducted in the following.



Editorial Acceptance

After editorial acceptance, the corresponding author is able to identify him/herself as affiliated to a member institution



Identification

OA agreement specific eligibility check: in-scope journals, article types

Corresponding author identifies him/herself as connected to a member institution



Verification

Identified article is sent to the member institution's **article approval service accounts** for **final verification of eligibility**



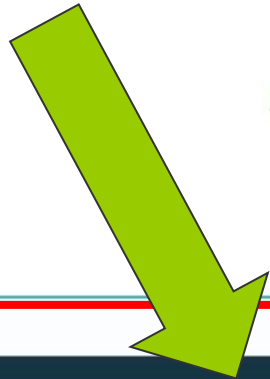
Publication

Eligible article is **published immediately open access**
OA Funding note added in article acknowledgments (if applicable)

Select publishing model

verified by the institution selected above. Please ensure your institutional affiliation here matches the one in your proofs, ahead of publication.

Visit www.springernature.com/oaforgermany for more information.



Yes, submit for approval

► No, I want to publish my article without open access

Publisher	Journal	FU central payments	APC
MDPI	Sustainability	10	2.000 CHF
MDPI	Remote Sensing	10	2.500 CHF
MDPI	Water	9	2.500 CHF
MDPI	Land	8	2.000 CHF
Wiley	Journal of Geophysical Research: Solid Earth	5	2.750 €
Stockholm Univ. Press	Tellus A: Dynamic Meteorology and Oceanography	4	
MDPI	Atmosphere	4	2.000 CHF
„Research Institution“	sub\urban : Zeitschrift für kritische Stadtforschung	3	
Springer Nature	Scientific Reports	3	1.890 €
Wiley	Journal of Geophysical Research: Planets	3	2.750 €
Springer Nature	International journal of earth sciences	3	2.750 €
Copernicus	Geoscientific Model Development	3	1.600 €
Wiley	Geophysical Research Letters	3	2.750 €
Copernicus	Earth System Dynamics	3	variable
Copernicus	Atmospheric Chemistry and Physics	3	variable

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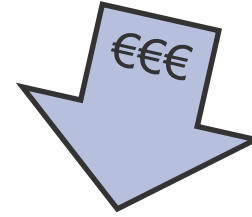
How does this relate
to your work and
practices?

GOALS & CHALLENGES

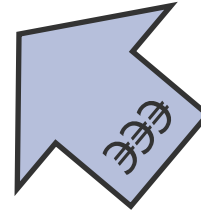
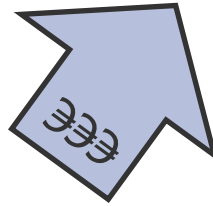
Good reasons for open access

- ✓ World wide free access
- ✓ Findable for practitioners and policy makers
- ✓ Public funding = public access
- ✓ More visibility, more citation
- ✓ Reduced costs
- ✓ Global justice





Why aren't we at 100% open access yet?



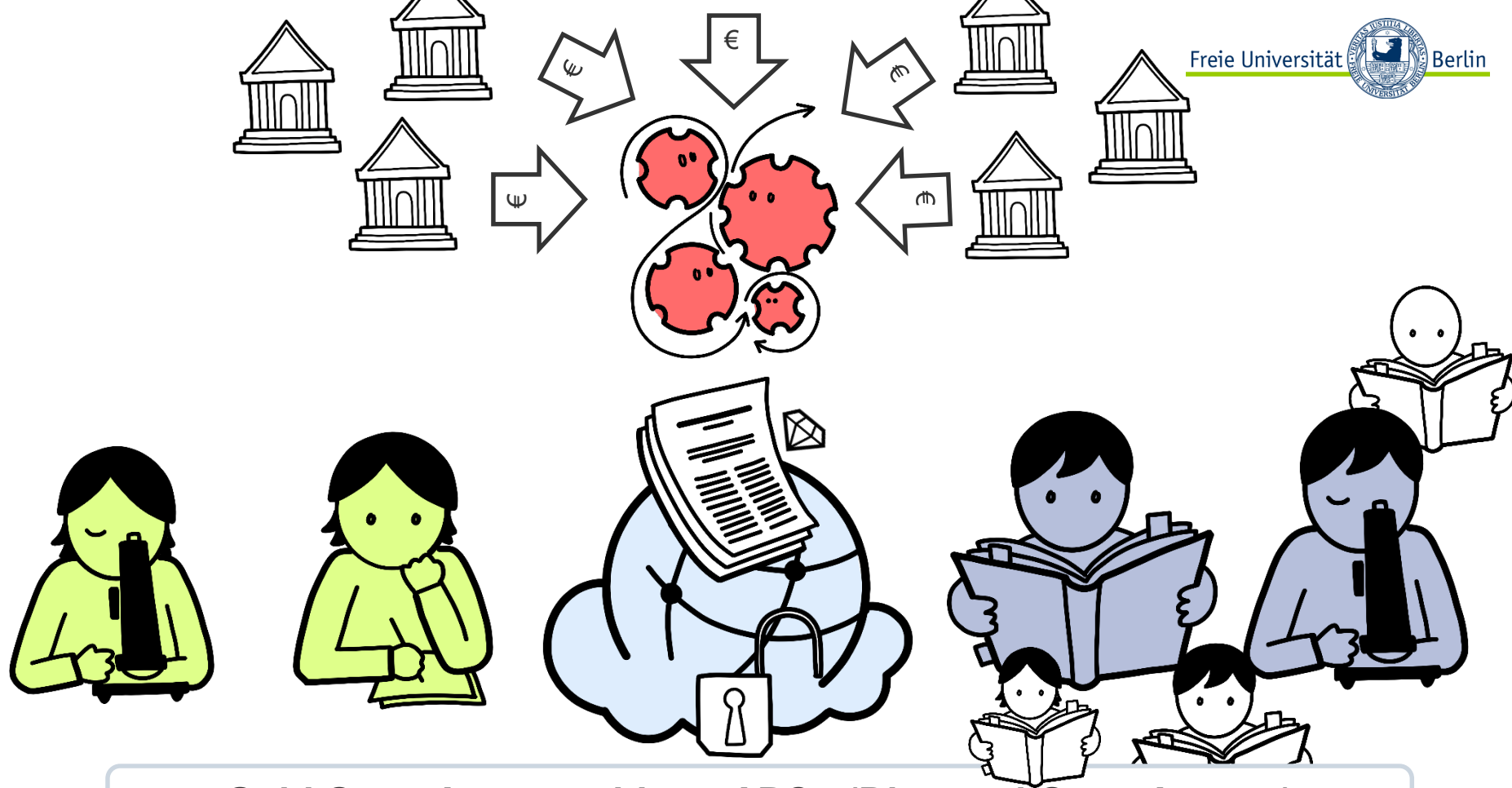
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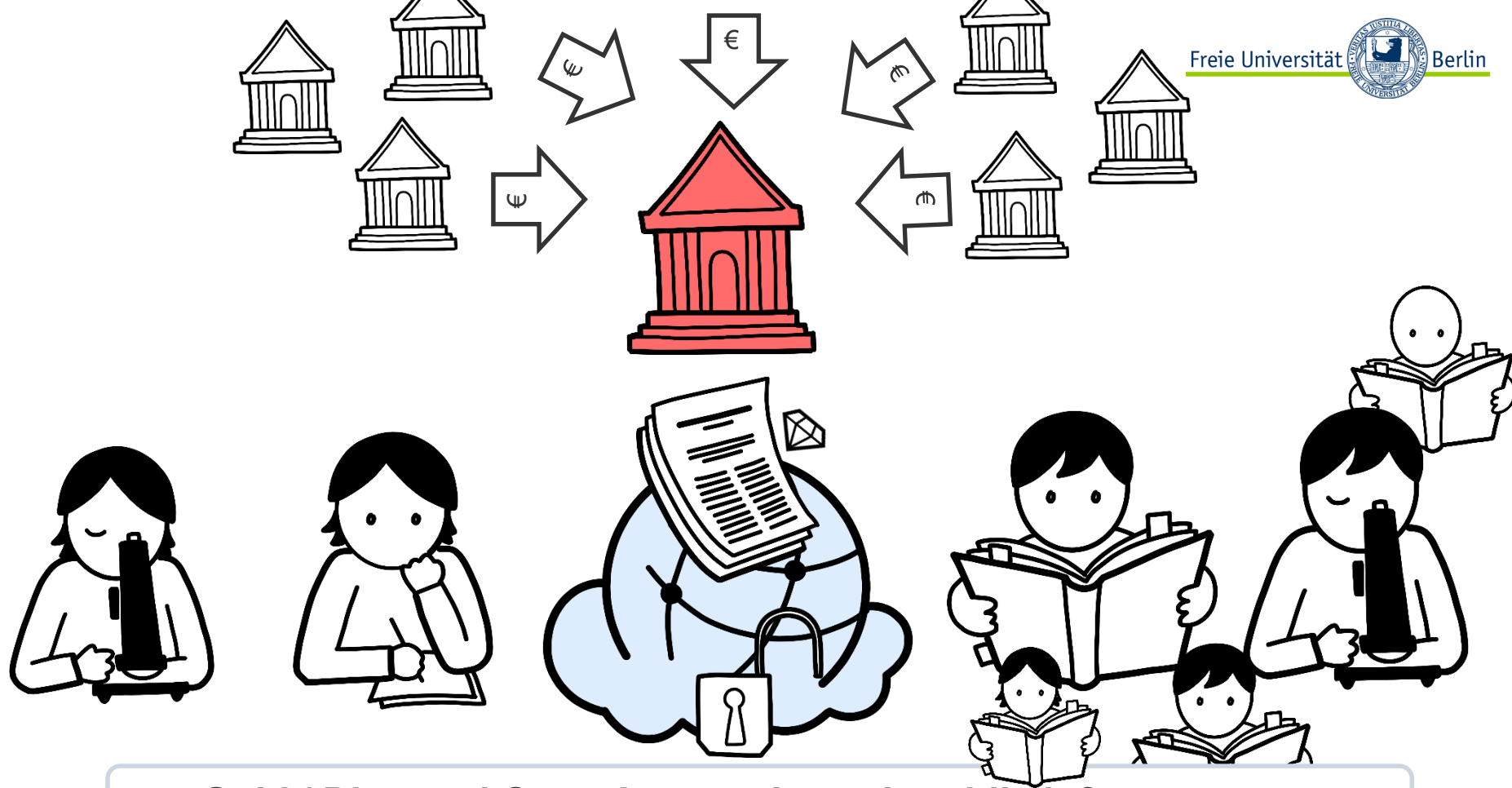
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Gold / Diamond Open Access through public infrastructures

TSR The
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SEPM | Society for Sedimentary Geology

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VOLCANICA

<http://www.volcanica.org/ojs/index.php/volcanica>

GEUS Geological Survey
Bulletin of Denmark and Greenland

<https://geusbulletin.org/index.php/geusb>



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* Service available also after grant has ended

Open Research Europe



<https://open-research-europe.ec.europa.eu/>

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Coming soon: Berlin Universities Publishing

- Berlin Universities Publishing (BerlinUP) is an Open Access publisher in a non-commercial, science-owned infrastructure and with a general, publisher-independent publication consultancy.
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- BerlinUP is intended to enable researchers from BUA institutions and visiting scholars, as well as employees of cooperation partners or large, supra-regional research projects, to publish their publications in open access in non-commercial, science-related infrastructures.
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OA Services at Freie Universität

- Consulting, workshops and events
- Funding for OA publication fees (journal articles, books, edited volumes)
- Secondary publication via repository (Refubium)
- Journal Hosting (Open Journal Systems)
- www.fu-berlin.de/open-access



Open Access at Freie Universität

Freie Universität Berlin has been active in supporting the idea of open access for many years.

- › Open Access Policy of Freie Universität Berlin
- › Stakeholders
- › About Open Access

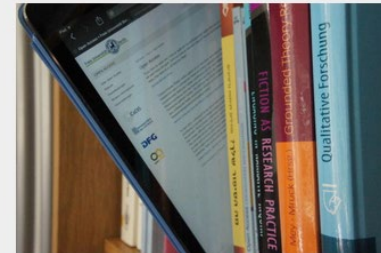
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- › Open Access Workshops

INHALT ▾

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[Open Access Journals](#)

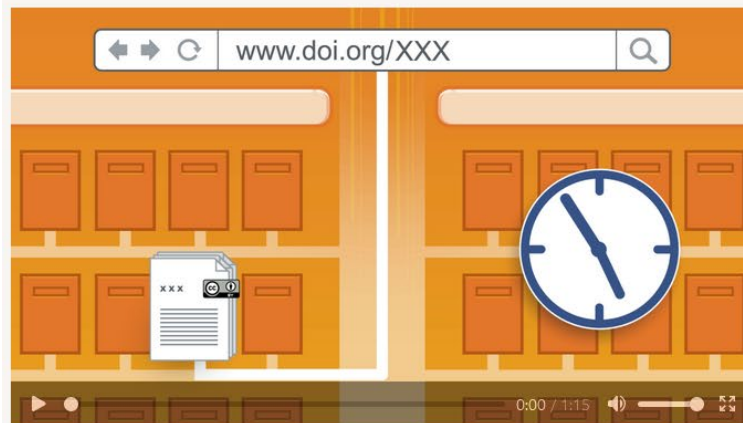
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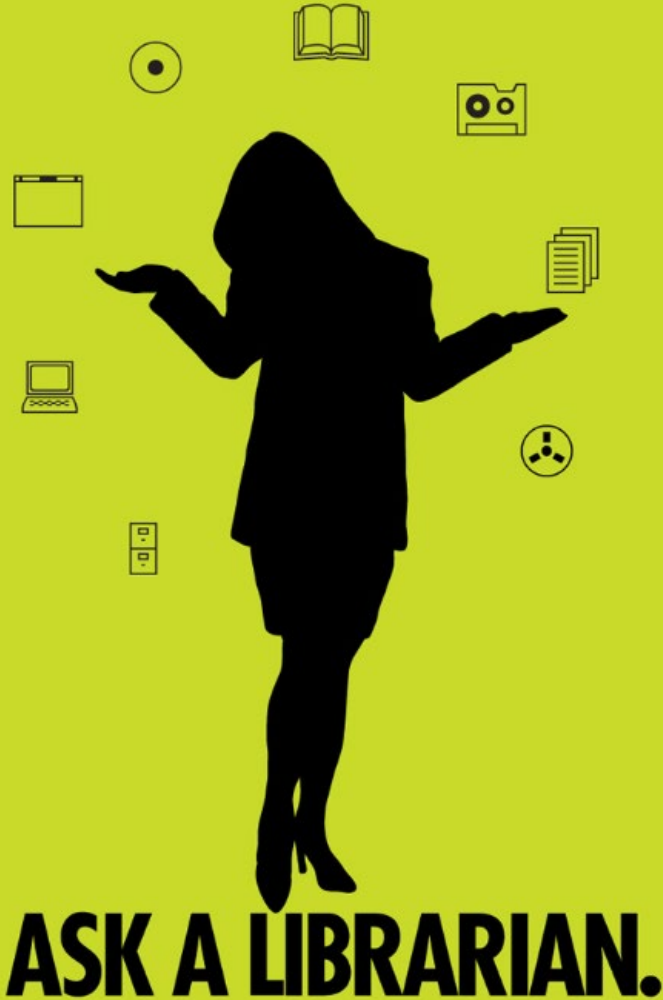
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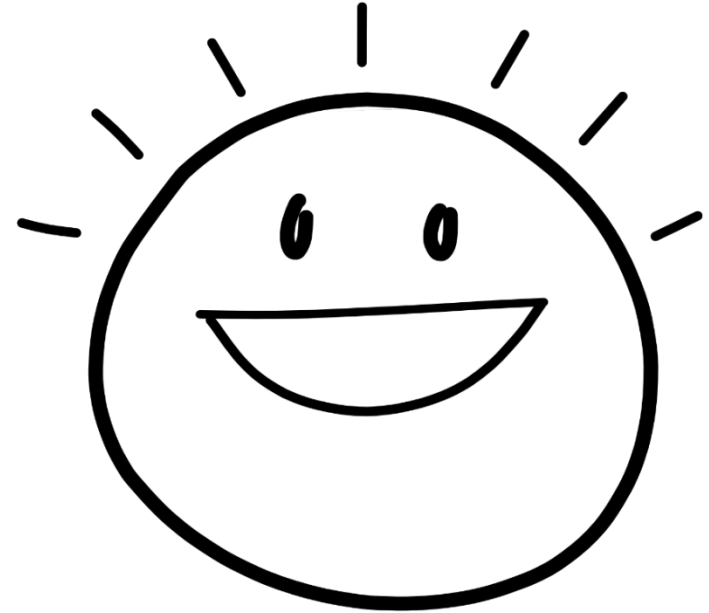
Find an introduction here.

Open Access in the Geosciences

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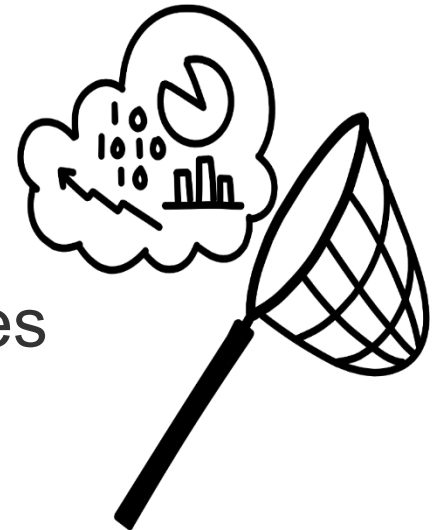


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- www.open-access.network



What have we talked about?

1. Open Access Basics
2. Open Access through Repositories
3. Open Access with Publication Charges
4. Practical Application Geosciences
5. Goals and Challenges of Open Access
6. Open Access without Publication Charges
7. Services and Resources



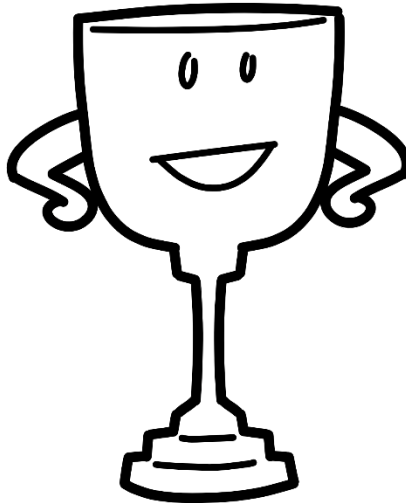
What do you need in order
to publish your work
openly?

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Kücklich, Julian. (2020). Free Vector ICONS Vektorgrafiken aus der Open-Access-Strategie des Landes Brandenburg zum Thema Offenheit in Wissenschaft, Forschung und Kultur: Wissenschaftskommunikation, wissenschaftliches Publizieren, Open Access, Open Data, Open Science (1.0). Zenodo. <https://doi.org/10.5281/zenodo.3674561>

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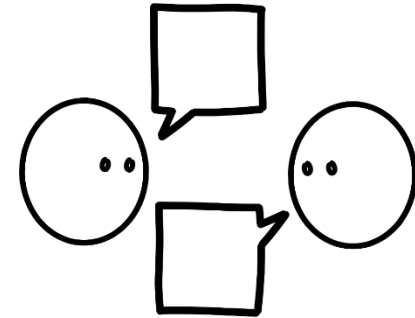
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ADDITIONAL MATERIAL

Further Reading (and watching, and listening)



[Website](#)

Individual advice, information, training, and networking



[Podcast](#)

(German, episode 4 is about open access)

Locked up science



Tearing down paywalls in scholarly communication

Claudia Frick - @FuzzyLeapfrog

#35c3

[Talk](#)

at the 35th Chaos Communication Congress



[Longread](#)

about the history of open access, from the arcana of academic publishing to Sci Hub



[Movie](#)

Paywall: The Business of Scholarship
(Review: [Nature](#))



[Podcast](#)

(German and English)

Examples for OA through public infrastructures



Verlag mit verschiedenen geisteswissenschaftlichen Open-Access-Zeitschriften, Förderung durch Mitgliedschaften von Bibliotheken.

<https://olh.openlibhums.org>



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**Distributed Network
for Publishing
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Infrastrukturen zum Publizieren eigenen OA-Zeitschriften und Bücher für Berlin

<https://www.berlin-university-alliance.de/commitments/sharing-resources/dnps/index.html>

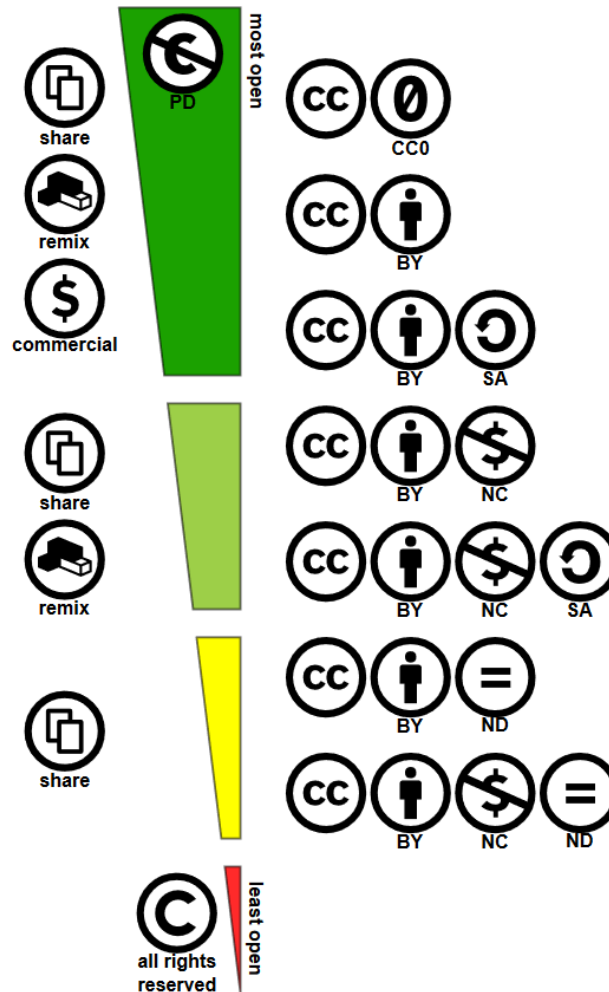
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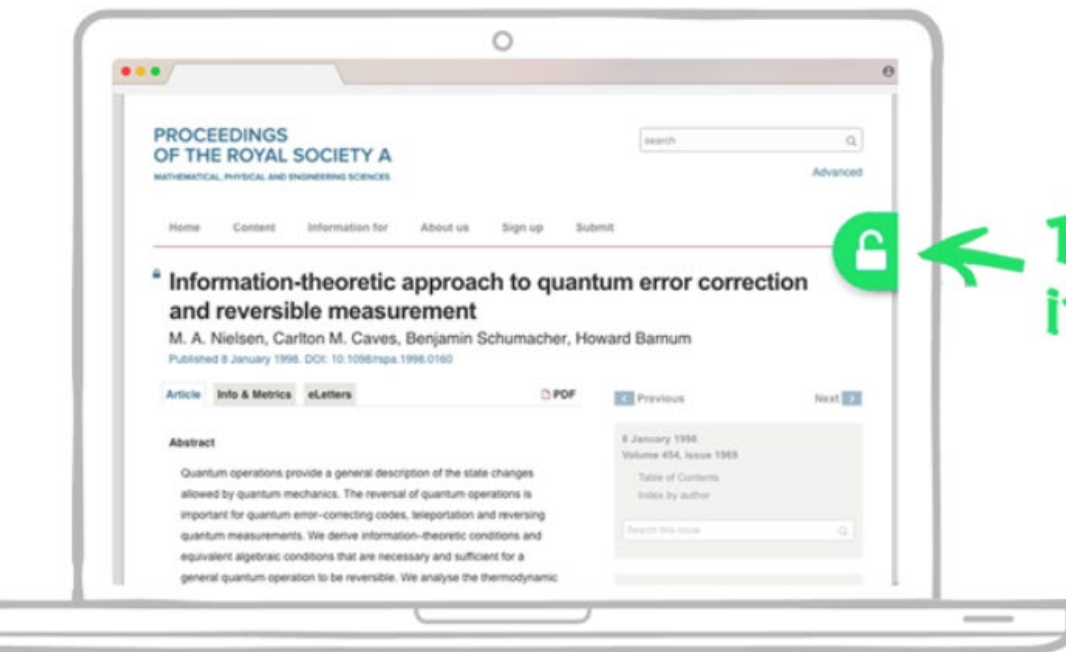


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