

OPEN ACCESS, WHY AND HOW

ICTP, November 17 2021

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The road ahead



...but there is a lot more to discuss, in Open Science

1

Open Access (why, what and how)

2

FAIR principles

An outdoor cafe setting featuring teal-colored square tables and white plastic chairs with a circular perforated pattern. The ground is paved with grey rectangular tiles. A black umbrella pole is visible on the right side. The text is overlaid on the teal table in the foreground.

Let's talk

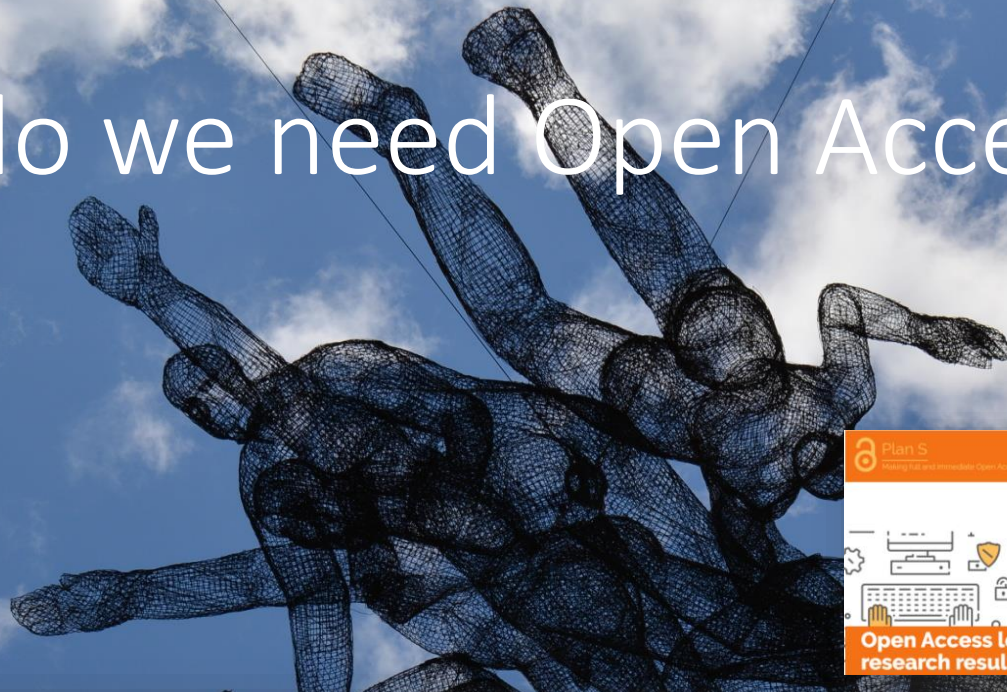
www.menti.com

6483 0405



WHY

Why do we need Open Access?



Plan S
Making full and immediate Open Access a reality

Roorick, June 2020

Why Plan S Principles and Implementation cOAlition S Apply for Transformative Journal status Contact

Open Access lessons during Covid-19: No lockdown for research results!

In addition, some publishers only agreed to making this research available on a temporary basis, narrowly focusing on access to Covid-19 related papers. This is hard to justify, as the fight against the disease requires perspectives from multiple scientific disciplines. Publishers temporarily releasing articles from paywalls does not represent Open Access. Full, immediate, and permanent Open Access should not only be required for research papers related to Covid-19, but research on other deadly diseases should also be accessible to researchers, medical professionals, patients and patient organizations, and citizens. So should research on climate change, education, inequality, indeed all research. It is no longer acceptable that 75% of the research literature is still behind a paywall. We don't know which research papers that today remain largely inaccessible could inspire solutions and bright ideas for tomorrow's challenges.

WE DON'T KNOW WHICH RESEARCH PAPERS
THAT TODAY REMAIN INACCESSIBLE
COULD INSPIRE SOLUTIONS FOR TOMORROW

Lessons learned from COVID / 1

Publishing research openly is not just a 'nice to have' JISC, 2021



by Anne Mills on 18 May 2021

The response to the global pandemic has demonstrated the huge value of open science, and a united front is needed to accelerate the transition toward this new way of working.

SHARING IS CRUCIAL

We find ourselves at a pivotal moment in history—we must cooperate effectively to respond to an unprecedented global health emergency. The mantra, “when we share, everyone wins” applies now more than ever.

Now Is the Time for Open Access Policies—Here’s Why



Victoria Heath and Brigitte Vézina
March 19, 2020

March 19, 2020

creative commons

Lessons learned from COVID / 2



WE NEED DATA
[FAIR BY DESIGN]
(AND NOT ONLY
THE FINAL
SYNTHESIS, I.E.
THE ARTICLE)

The Value of RDA for COVID-19

RDA

[Home](#) » [Get involved](#) » [The Value of RDA for...](#) » [The Value of RDA for COVID-19](#)

📅 13 July 2020

📖 16426 reads

📘 Facebook

🐦 Twitter

Under public health emergencies, and particularly the COVID19 pandemic, it is fundamental that data is shared in both a timely and an accurate manner. This coupled with the harmonisation of the many diverse data infrastructures is, now more than ever, imperative to share preliminary data and results early and often. It is clear that open research data is a key component to pandemic preparedness and response.



Lessons learned from COVID / 3

TRADITIONAL SUBSCRIPTION
BASED JOURNALS: FIRST
ARTICLES (WITH NO DATA) AT
THE EARLIEST IN DEC. 2020
(9-18 MONTHS AVERAGE PUBLICATION TIME)

...AND WE NEED RESULTS
IMMEDIATELY...

RESEARCHES SHOULD BE AVAILABLE
IMMEDIATELY...NOT SEGREGATED
FOR MONTHS WAITING FOR A «PEER
REVIEW» WHICH CAN BE DONE IN A
MORE EFFECTIVE WAY, OPENLY

VIEWPOINTS

REPUBLISH

Opinion: A Lesson of the Pandemic: All Prints Should Be Preprints

*A flourishing of Covid-19 literature dispels
the idea that pre-publication peer review is
essential for academic rigor.*

Visual: Wenjin Chen / Getty Images

2020

Lessons learned from COVID / 4



Use of pre-prints – calling time on subscription



- WHO repository IRIS 150 publications relating to Covid-19 - 25% referencing pre-prints
- NEW development WHO [Living Guidelines](#) available online via the MAGICapp
- 3 WHO Living guidelines for Covid-19. Therapeutics 6 versions since November 2020.

Analysis of version 5 March 2021

- 44% of its references as pre-print
- 33% unpublished results shared with WHO
- Therefore < 25% from traditional published literature.....

<25% FROM TRADITIONAL LITERATURE
INCLUDED IN WHO GUIDELINES
THEY FAILED US RIGHT WHEN WE
NEEDED THEM MORE



<https://app.magicapp.org/#/guidelines>

Lessons learned from COVID / 5



Implications of pandemic for publications



NEED TO RETHINK THE ORDER

1) PUBLISH

2) OPEN PEER REVIEW

3) EARN IMPACT

FOR REAL, NOT USING THE
TOXIC IMPACT FACTOR

(AWARDING MEDALS BEFORE
THE RACE HAS RUN)

- Need to rethink publishing

1st Publish
2nd Open (meta) peer review
3rd Earn impact

- Why have impact factors?! - Like awarding the medals BEFORE the race has run

- Traditional publishing model is no longer fit for purpose too slow and no guarantee of quality

- It feels like we're running electric cars on steam train tracks



Impact Factor is a
toxic indicator



Lessons learned from COVID / 6

THE CONCEPT OF JOURNAL IS DEAD
NO SUCH THING AS «VERSION OF RECORD», SCIENCE IS DYNAMIC

Implications of pandemic for publications



- No such thing as the Version of Record – science is dynamic, changing and evolving
- The concept of the 'Journal' is dead = wasteful and biased
- Role for post-published aggregations perhaps Papers of the month
- Open science must create the interoperable links across all stages and disciplines. Links between the paper and the data are indivisible

All public science should be open access

Citizens should demand this

Pre-prints encouraged recognized and rewarded

Robert Terry OSfair 2021 [min. 16.48-46]



[Journals? No thanks]

CRISIS

- 1) REPRODUCIBILITY
- 2) FUNCTIONALITY
- 3) SUSTAINABILITY

EVERY PLAYER IS AT
DISADVANTAGE IF THEY
MOVE FIRST SO THEY
REMAIN LOCKED IN

B.Brembs Sept. 24 2021

REPLACING ACADEMIC JOURNALS

Authors:

Björn Brembs, Universität Regensburg, Germany
Philippe Huneman, IHPST, CNRS, Paris, France
Felix Schönbrodt, LMU Munich, Germany
Gustav Nilsson, Karolinska Institutet, Sweden
Toma Susi, University of Vienna, Austria
Renke Siemens, Reutlingen, Germany
Pandelis Perakakis, Complutense University of Madrid, Spain
Varvara Trachana, University of Thessaly, Larisa, Greece

These three crises fuel each other in a vicious cycle: the affordability crisis prevents institutions from combating the functionality crisis. The functionality crisis, in turn, fuels the replication crisis, for instance by making peer-review more cumbersome and by making research data and code harder to discover, access and scrutinize. The journals propagating the replication crisis keep exacerbating the affordability crisis with super-inflationary price increases [12-14]. Thus, all three scholarly crises are interlocked in an ever-deteriorating vicious cycle, at the heart of which lies a public good in private hands: the scholarly literature. In this social dilemma, every player is at a disadvantage if they move (first), so they all remain locked-in: Neither researchers – forced to publish in journals due to the “publish or perish” reality – nor libraries – serving the reading and publishing needs of their faculty – are in a position to initiate reform. The corporate publishers are the only player profiting from this system. They exploit this lucrative situation by using their massive profits not only to resist and delay any research- and public-oriented reform, but to fund a reform of their own and on their own terms. Their ‘reform’ is not aimed at increasing the reliability of science or decreasing the financial burden on public institutions. Their reform aims to multiply corporate revenue streams and market power even further.

...AND PUBLISHERS ARE GAINING FROM IT

Lessons learned from COVID / 7

raise questions about the way science-as-usual is practised.

Vincent Larivière is an information scientist and professor at the University of Montreal, who studies the way science is disseminated. He said the move to speed up publication and share research is a tacit admission that business-as-usual in research slows down science.

"[They say] we're opening everything because it's important that we advance things fast. Well, the flip side of this argument is that your normal behaviour is to put barriers to science."

"This virus is dangerous and deadly, but there's lots of other diseases that are dangerous and deadly, and for which opening could save lives. So if you really want to go in that direction, just open everything."



University of Montreal researcher Vincent Larivière said the climate of open science suggests that science-as-usual creates barriers. (Amélie Philibert)

Health · Second Opinion

'We're opening everything': Scientists share coronavirus data in unprecedented way to contain, treat disease

Feb.1, 2020

...SCIENTIST ARE **NOW** OPENING AND SHARING DUE TO COVID-19...

THE FLIP SIDE IS THAT OUR NORMAL BEHAVIOUR IS TO PUT BARRIERS TO SCIENCE

nature

Feb 4, 2020

Subscribe

EDITORIAL · 04 FEBRUARY 2020

Calling all coronavirus researchers: keep sharing, stay open

As the new coronavirus continues its deadly spread, researchers must ensure that their work on this outbreak is shared rapidly and openly.

The Results Are In of our Open Access Survey


November 1, 2021 * Author: Mary Kennedy

There were three parts to this survey. In the first part, we asked some general questions on the topic of open access. Here is what we found: [Oct.2021](#)

- 83% of the respondents agree that the scholarly community could perform research more effectively if all scientific communication were made freely available under an open access license.
- 95% of respondents have had the experience of being unable to access a research article they needed due to paywalls.
- 83% have downloaded an open access book for their research.
- Half of the respondents admitted to at least once illegally downloading a research paper that they couldn't access because it was behind a paywall.

Also, interestingly about **one-fifth of respondents said that the COVID-19 pandemic changed their view of open access research.** One responder commented particularly that they felt this when the

95% HIT A PAYWALL

 [open access.nl](#) [News and events](#) [What is open access?](#) [In the Netherlands](#) [You](#)
[2020](#)

Alternative ways to access journal articles

← [Aleksandra Lazic](#) [2021](#)

A place [Mesto] where [gde] I write [pišem] about [o] science

Ten ways to find open access articles

November 05, 2021

Access is the issue



Who's downloading pirated papers?

EVERYONE

2016

In rich and poor countries, researchers turn to the Sci-Hub website.



Bernard Rentier
@bernardrentier

Following

The single fact that providing free information on universal Science is illegal tells us a lot about how absurd it has become, in the Internet era, to rely on the old research publication model. [#FreeOpenAccessNow](#)

Jon Tennant @Protohedgehog

Oh wow. Looks like anyone can now create their own @sci_hub mirror github.com/bsidio/sci-hub You can use this to help accelerate research and society by providing free access to millions of research articles. But it's probably illegal, so don't do it.

Traduci il Tweet

08:37 - 10 mag 2018

[March 10, 2018](#)

Scholarly communication today...

... WE ARE PAYING COMMERCIAL PUBLISHERS TO LOCK UP A **CONTENT PRODUCED BY PUBLIC MONEY** YOU **AUTHORED FOR FREE**, YOU **REVIEWED FOR FREE**

"Learning on knowledge graph dynamics provides an early warning of impactful research"

You are viewing an article preview. The following formats are available to purchase through ReadCube:

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The Journal of Academic Librarianship
Volume 47, Issue 5, September 2021, 102436

Mapping the open access ecosystem

Astrid Jaime ... Piedad Lucia Barreto

The purpose of publications in a pandemic and beyond

distinction than dissemination. And when it comes to a global emergency, we're still having to beg publishers for access to our own research so that we might save large swathes of the human

Apr. 22, 2020

AND THEN WE HAVE TO BEG THEM FOR ACCESS DURING A CRISIS

... scholarly communication today...



A new mandate highlights costs, benefits of making all scientific articles free to read

By Jeffrey Brainard | Jan. 1, 2021

10 bn \$
in 2020

Jan 1, 2021

7.6 billion \$

[UNDERESTIMATED] AMOUNT OF MONEY SPENT IN SUBSCRIPTION IN 2016

READING IS NOT FOR FREE

TODAY, WE PAY 3800/5000 \$ PER ARTICLE IN THE SUBSCRIPTION SYSTEM

WE PAY TO CLOSE

36%

ELSEVIER NET GAIN

| Profit | Company | Industry |
|--------|-----------|----------------------|
| 10% | BMW | automobiles |
| 23% | Rio Tinto | mining |
| 25% | Google | search |
| 29% | Apple | premium computing |
| 35% | Springer | scholarly publishing |
| 37% | Elsevier | scholarly publishing |

2018

http://wp.me/p1qJF-kun CC-BY Alex Holcombe



Darragh Duffy @darragh_duffy

Elsevier's scientific publishing arm reported profits of £724 million on £2 billion in revenue - a 36% profit margin—higher than Apple, Google, or Amazon- where authors generate the "product", pay open-access fees, reviewers peer review for free & institutions pay to access 🤖

[peer review]

Aczel et al. *Research Integrity and Peer Review*
<https://doi.org/10.1186/s41073-021-00118-2>

(2021) 6:14

Nov 14 2021

Research Integrity and
Peer Review

RESEARCH

Open Access

A billion-dollar donation: estimating the cost of researchers' time spent on peer review



Balazs Aczel^{1*} , Barnabas Szasz^{1*} and Alex O. Holcombe²

Abstract

Background: The amount and value of researchers' peer review work is critical for academia and journal publishing. However, this labor is under-recognized, its magnitude is unknown, and alternative ways of organizing peer review labor are rarely considered.

Methods: Using publicly available data, we provide an estimate of researchers' time and the salary-based contribution to the journal peer review system.

Results: We found that the total time reviewers globally worked on peer reviews was over 100 million hours in 2020, equivalent to over 15 thousand years. The estimated monetary value of the time US-based reviewers spent on reviews was over 1.5 billion USD in 2020. For China-based reviewers, the estimate is over 600 million USD, and for UK-based, close to 400 million USD.

Conclusions: By design, our results are very likely to be under-estimates as they reflect only a portion of the total number of journals worldwide. The numbers highlight the enormous amount of work and time that researchers provide to the publication system, and the importance of considering alternative ways of structuring, and paying for, peer review. We foster this process by discussing some alternative models that aim to boost the benefits of peer review, thus improving its cost-benefit ratio.

"They take our free labour, package it, and sell it back to us for windfall profits. The result is that one of our core activities - sharing research - is largely governed by the drive to deliver shareholder value. It doesn't have to be that way."

Jefferson Pooley, Muhlenberg College



For researchers, it's like going to a restaurant, bringing all of your own ingredients, cooking the meal yourself, and then being charged \$40 for a waiter to bring it out on a plate for you.

You are the provider, the product, and the consumer.
J. Tennant, 2018

Communication



YOU WRITE THE PAPERS,
YOU REVIEW THE PAPERS...

WHY SHOULD YOU PAY TO READ THEM ?

[reminder #1]



Ivo Grigorov
@OAforClimate

In risposta a [@EvaHnatkova](#), [@Eurodoc](#) e altri 8

Challenges for [#OpenScience](#): “Publishing should serve Science, but it doesn’t! Science seems to serve publishers”, Kostas Glinos [@KGlinos](#) [@EU_Commission](#) [#KRECon2021](#)

[Traduci il Tweet](#)

1:32 PM · 11 nov 2021 · Twitter for iPhone [Nov. 11, 2021](#)

PUBLISHING SHOULD SERVE
SCIENCE, BUT IT DOESN'T.
SCIENCE SEEMS TO SERVE
PUBLISHERS

The market

Executive Summary

2 mins read

2020

FROM CONTENT
PROVISION TO DATA
ANALYTICS

Academic publishing is undergoing a major transition. Some of its leaders are moving from a content-provision to a data analytics business. This shift is still in its early days. There are actions and strategies that institutions can consider adopting to limit the potential harms, and leverage potential benefits.

SPARC*

LANDSCAPE ANALYSIS

The Changing Academic Publishing Industry – Implications for Academic Institutions

March 28, 2019
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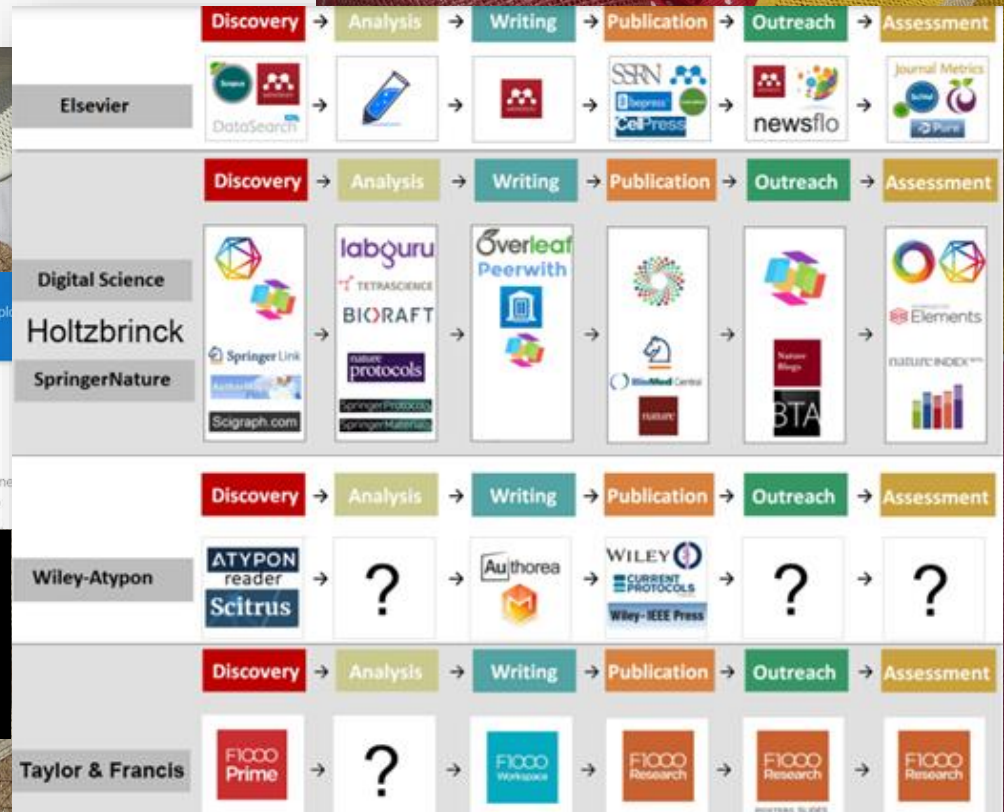
zenodo Search [] Upd

September 24, 2021 Sept. 24, 2021

Replacing academic journals

• Björn Brembs; • Philippe Huneman; • Felix Schönbrodt; • Gustav Nilsson-Pandelis Perakakis; • Varvara Trachana; • Lai Ma; • Sara Rodriguez-Cuadrado

COVERING EVERY STEP
OF THE RESEARCH
CYCLE



[reminder #2]



THEY ARE BIG BROTHER
AND YOU ARE PAYING
THEM TO DO IT



Peter Murray-Rust
@petermurrayrust

In risposta a [@brembs](#) e [@egiglia](#)

If you make a deal with [#elsevier](#) then they will know everything about what you do and who does it 24/7 . They are big brother and you are paying them to do it

[Traduci il Tweet](#)

2:10 PM · 14 nov 2021 · Twitter for Android

Nov.14, 2021

Public interactions with Elsevier's management during the first part of 2021 suggest that Elsevier itself continues to publicly downplay the conflicts of interest among its portfolio of activities. More broadly, little attention seems to be given to the conflicts that arise when Elsevier collects data from researchers and then sells research assessments to academic institutions, funding bodies, and governments.

SPARC update 2021

For example, in September 2020, Brad Allen, chief architect at Elsevier, held a webinar organized by the Harvard Data Science Initiative. During the Q&A, which was open to the public, questions were asked about the ethics of artificial intelligence (AI) and about possible conflicts of interest that the use of AI could present.² Though the answers indicated that Elsevier is aware of the ethical issues affecting data science, the presenters offered no concrete steps the company has taken to address them, and this void has not stopped them from selling their products. When asked about conflict of interest with serving both researchers, funders, and governments, Mr. Allen allowed that his answer had not been on point and admitted he had not thought much about it.

Conflicts of interest are not limited to both publishing research and assessing it or to collecting individual researchers' data through productivity tools and selling those data to universities, funding bodies, and governments. Leslie Chan and George Chen have recently written extensively on the conflict of interest inherent in publishing research and contributing to university rankings.³ Conversations with senior administrators of academic institutions often reveal the frustration engendered by university rankings, yet

SPARC*

2021
UPDATE

SPARC Landscape Analysis
and Roadmap for Action

- CONFLICT OF INTERESTS
- ETHICAL ASPECTS COMPLETELY OVER

Market and interests

SPARC*

2021
UPDATE

SPARC Landscape Analysis
and Roadmap for Action

SPARC update 2021

The fact that Elsevier (and, potentially, other companies) would pursue interests that put them at odds with the interests of the academic community and tolerate internal conflicts of interest should not come as a surprise. The business of publishers is to make money; the “business” of academic institutions is to advance knowledge, not to enable publishers to achieve their commercial goals. Unfortunately, the responsibility for highlighting and resolving conflicts of interest falls squarely onto the academic community.

THE BUSINESS OF PUBLISHERS IS TO MAKE MONEY,
THE BUSINESS OF ACADEMIA IS TO ADVANCE (AND SHARE) KNOWLEDGE

[Houston, we h

No academic post for fraudster Diederik Stapel, after all

Recently, we reported that social psychologist and renowned data faker Diederik Stapel had found himself a [new gig supporting research at a vocational university in the Netherlands](#) — but it appears that was short-lived.



Diederik Stapel

According to multiple news reports, NHTV Breda will not be employing Stapel, after all.

Here's our Google translate of a portion from *De Telegraaf*: [Continue reading](#) →

Does scientific misconduct cause patient harm? The case of Joachim Boldt

2013

<https://retractionwatch.com/>

Retraction Watch

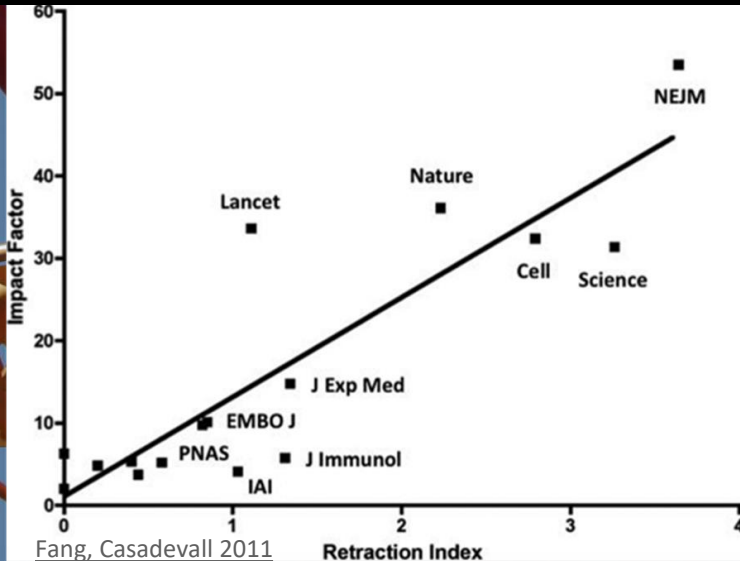
Tracking retractions as a window into the scientific process

The Retraction Watch Leaderboard

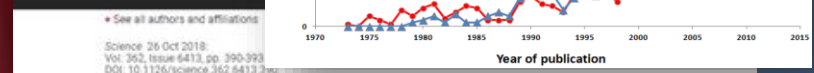
Who has the most retractions? Here's our unofficial list (see notes on methodology), which we'll update as more information comes to light:

1. [Yoshitaka Fujii](#) (total retractions: 183) See also: [Final report of investigating committee](#), [our reporting](#), [additional coverage](#)
2. [Joachim Boldt](#) (136) See also: [Editors-in-chief statement](#), [our coverage](#)
3. [Yoshihiro Sato](#) (102) See also: [our coverage](#)
4. [Jun Iwamoto](#) (78) See also: [our coverage](#)
5. [Ali Nazari](#) (62) See also: [our coverage](#)
6. [Diederik Stapel](#) (58) See also: [our coverage](#)
7. [Yuhji Saitoh](#) (53) See also: [our coverage](#)
8. [Adrian Maxim](#) (48) See also: [our coverage](#)

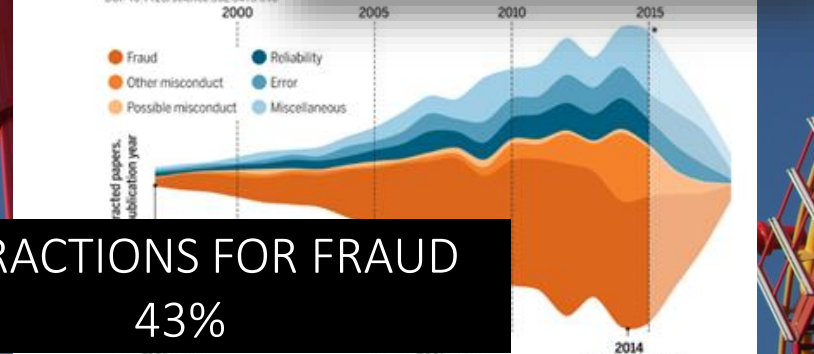
DIRECT CORRELATION #RETRACTIONS/IMPACT FACTOR



Science



RETRACTIONS FOR FRAUD 43%



ROYAL SOCIETY OPEN SCIENCE

rsos.royalsocietypublishing.org

The natural selection of bad science

[P.Smaldino, 2016](#)

J.Brainard, [Rethinking retractions](#), Science 2018

... why? As evaluation became an «obsession»



THE
ROYAL
SOCIETY

The future of
scholarly scientific
communication
2015

Conference 2015

EVALUATION BECAME AN OBSESSION

- «not only are we failing to provide the right incentives, we are providing perverse ones»
- Goodhart's law: «when a measure becomes a target, it ceases to be a good measure»
- «people game the system at every level»

... evaluation is the key

EVALUATION

- AFFECTS THE BEHAVIOUR
- PROMOTES COMPETITION OVER COLLABORATION
- MAINTAINS HIGH JOURNALS PRICES BASED ON PRESTIGE
- FAILS TO RECOGNIZE RESEARCH OUTPUTS LIKE DATA, CODE, BLOGS...

International Science Council

metrics designed to assess the importance and impact of research as an aid to evaluation, with publication outputs in traditional scientific journals being the major focus. These metrics in turn affect the behaviour of researchers, such as their choice of journals, as they seek to maximize their performance as measured by the metrics used. They can contribute to the maintenance of high journal prices, promote intense competition rather than openness and sharing, and fail to recognize research contributions such as the production of datasets, software, code, blogs, wikis and forums.

ICSU 2014

...Open Science might help

Open Science Depends on Open Minds



Neelie Kroes ✓

Iscriviti 851

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Qeios

<https://doi.org/10.32388/838962>

Open Science

'Open Science' stands for the transition to a new, more open and participatory way of conducting, publishing and evaluating scholarly research. Central to this concept is the goal of increasing cooperation and transparency in all research stages. This is achieved, among other ways, by sharing research data, publications, tools and results as early and open as possible.

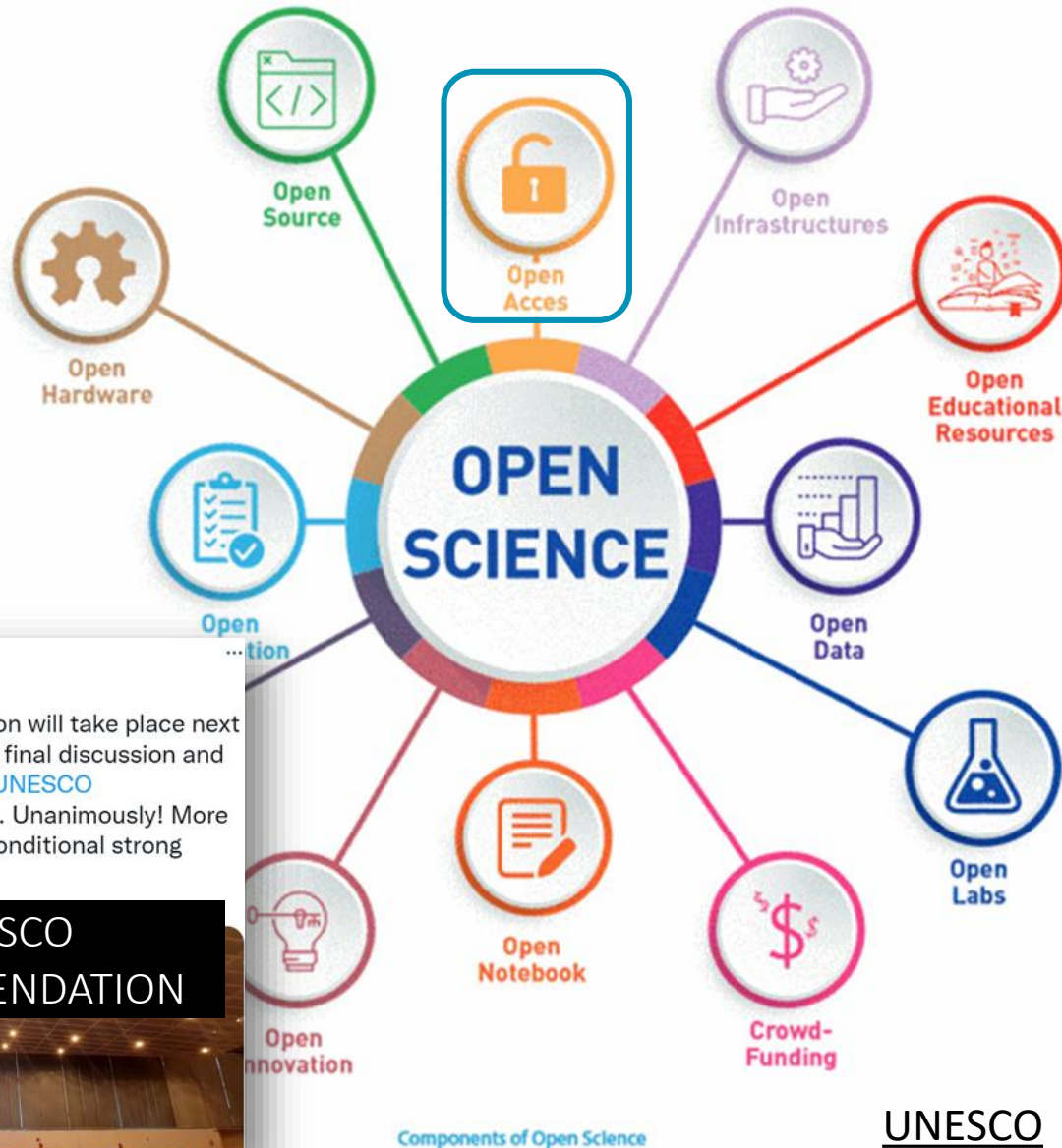
Open Science leads to more robust scientific results, to more efficient research and (faster) access to scientific results for everyone. This results in turn in greater societal and economic impact.

<https://www.accelerateopscience.nl/what-is-open-science/>

...Open Science in HEU

FOCUS ON THE ENTIRE PROCESS
NOT ONLY ON THE FINAL
OUTPUT (ARTICLE)

OPEN
SCIENCE ≠ OPEN
ACCESS



Lutz Möller
@moellerl

Nov.15 2021

A Milestone! While formal adoption will take place next week, [#unescoGC](#) has had its final discussion and endorsement on the landmark [@UNESCO](#) [#OpenScience](#) Recommendation. Unanimously! More than 50 governments voiced unconditional strong support. Great Day!

Traduci il Tweet

UNESCO
RECOMMENDATION



UNESCO

Open Science

WEBINAR June 2021



NOT ONLY PAPERS.
ALL THE IN-BETWEEN IS
SCIENCE...

REDEFINE
«EXCELLENCE»

recognize that formal papers and manuscripts are not the only units of scientific knowledge



redefine research excellence towards *values*: leadership, diversity work, mental health support



put science back at
the heart of society

invest in tools, services, and community-driven initiatives to help make science better by engaging more people to participate in the process



tell it like it is: redefine failure, nurture slower, responsible science, shift the focus from the outputs to the practice



TAKE BACK CONTROL,
ENGAGE COMMUNITIES



@pcmasuzzo
Oct.5, 2020

TELL IT LIKE IT IS: REDEFINE
«FAILURE», SHIFT THE FOCUS
FROM OUTPUTS TO PRACTICE



WHAT

Open Access



Open Access

Berlin Declaration

1. The author(s) and right holder(s) of such contributions grant(s) to all users a free, irrevocable, worldwide, right of access to, and a license to copy, use, distribute, transmit and display the work publicly and to make and distribute derivative works, in any digital medium for any responsible purpose, subject to proper attribution of authorship (community standards, will continue to provide the mechanism for enforcement of proper attribution and responsible use of the published work, as they do now), as well as the right to make small numbers of printed copies for their personal use.

The pillars



KNOWLEDGE IS A COMMON

SCHOLARLY COMMUNICATION IS
A GREAT CONVERSATION

THE RESULTS OF PUBLICLY FUNDED RESEARCH
MUST BE PUBLICLY AVAILABLE

Benefits

... transparency on public funds...

Benefits / knowledge spread

THE IMPACT OF OPEN ACCESS

Demonstrating Achievements

Open access for Institutions

| | | |
|---|---------------------------------|---------------------------------|
| Building Reputation | Garnering Funding | Developing Alumni Connections |
| Strengthening Recruiting | Demonstrating Learning Outcomes | Professionalizing Students |
| Contributing Stories for Public Relations | Aiding Accreditation | Boosting Operational Efficiency |

Reputation Building

Open access for Authors

| | | |
|--|---|------------------------|
| Amplifying Scholarly Expertise | Preserving Scholarly Legacy | Developing Niche Field |
| Forging Business & Government Partnerships | Popularizing Research in Mainstream Outlets | Finding Collaborators |
| Modeling Innovative Teaching | Launching Scholarly Career | Improving Quality |

Advancing Knowledge

Open access for Readers

| | | |
|--------------------------|-------------------------------|----------------------------------|
| Affecting Public Policy | Advancing Innovation | Linking Global Experts |
| Building Local Community | Improving Access to Education | Datamining Research |
| Updating Practitioners | Connecting Cultures | Informing Prospective Applicants |

...INCREASED AND FASTER CIRCULATION OF IDEAS...
BOOSTING THE CREATION OF KNOWLEDGE

...and you have to do it [Horizon Europe]

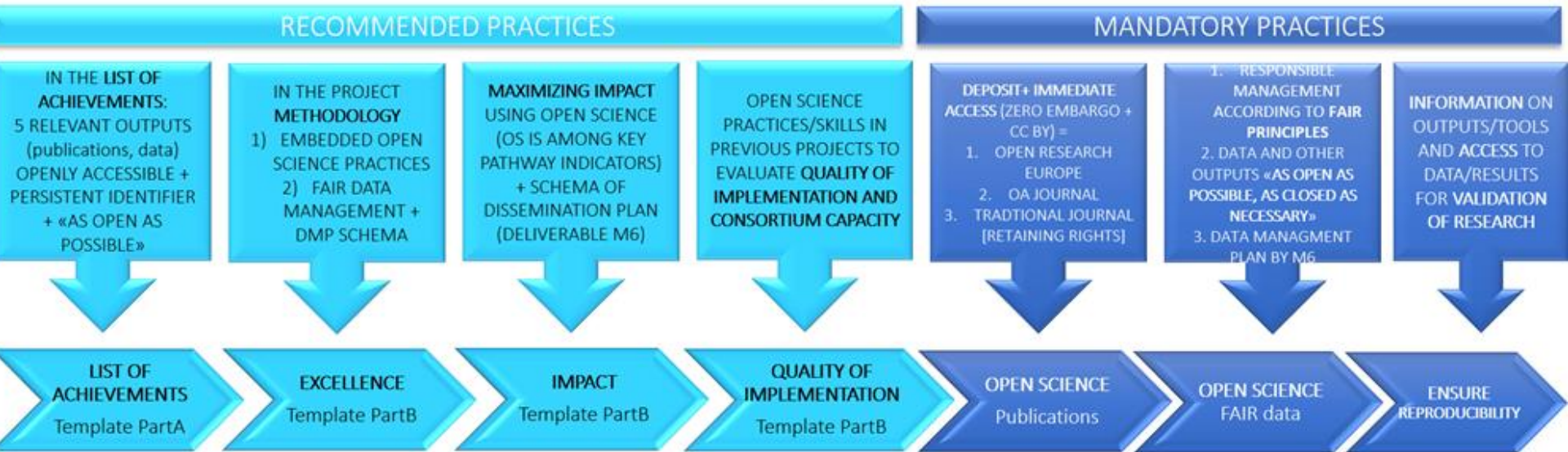


Open Science in Horizon Europe RIA/IA/CSA

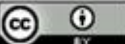


IN THE METHODOLOGY YOU NEED TO ADDRESS BOTH:

- 1) HOW YOU WILL COMPLY WITH THE **MANDATORY PRACTICES**
- 2) HOW YOU WILL ADOPT **RECOMMENDED PRACTICES**



PROJECT PROPOSAL WILL BE EVALUATED ON
 a) HOW IT WILL ADOPT RECOMMENDED PRACTICES AND b) HOW IT WILL BE COMPLIANT TO MANDATORY ONES





HOW

How Open Access works / green and gold



[Houston, we have a problem] / 2

10 Myths around Open Scholarly Publishing
March 11, 2019

| | |
|---|---|
| Myth 1 Preprints will get your research 'scooped' Preprints typically provide a time-stamp and a DOI, therefore establishing priority of discovery | Myth 6 Copyright transfer is required to publish and protect authors Copyright transfer procedures do not protect authors nor contribute to the advancement of scientific progress |
| Myth 2 JIF and journal branding are measures of quality for researchers The JIF is a flawed metrics that was never meant to be used for evaluation of research and researchers | Myth 7 Gold Open Access is synonymous with the APC business model Most DOAJ-indexed journals do not have APCs and are funded from other sources, such as research institutes and grants |
| Myth 3 Approval by peer review proves that you can trust a research article The current peer review system is prone to a number of flaws including corruption, human bias and ghostwriting | Myth 8 Embargo periods on 'green' OA are needed to sustain publishers Traditional journals can peacefully coexist with zero-embargo self-archiving policies on author manuscripts |
| Myth 4 Without journal peer review, the quality of science suffers Researchers are more than responsible and competent enough to ensure their own quality control as part of intrinsic scientific integrity | Myth 9 Web of Science and Scopus are global databases of knowledge Neither represent the sum of current global research knowledge including Africa, Latin America and Southeast Asia |
| Myth 5 Open Access has created predatory publishers Predatory journals have been around for a long time before the recent push towards Open Access publishing | Myth 10 Publishers add no value to the scholarly communication process Publishers are responsible for quite some key functions, from peer-review management to production and archiving of final version articles |

NOT PEER-REVIEWED
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Ten myths around open scholarly publishing

[Librarians](#) [Science and Medical Education](#) [Science Policy](#)

OPEN ACCESS (PERCEPTION)

- JOURNALS ONLY
- ALWAYS PAYING FOR PUBLISHING
- ALWAYS PREDATORY PUBLISHERS



Green road – deposit/self archiving

**AUTHOR SELF-ARCHIVES
IN AN OPEN ACCESS REPOSITORY
THE ALLOWED VERSION OF THE PAPER ,
WHEREVER IT WAS PUBLISHED,
ACCORDING TO PUBLISHERS' COPYRIGHT POLICIES**

You – can – do – it!!!!!!!

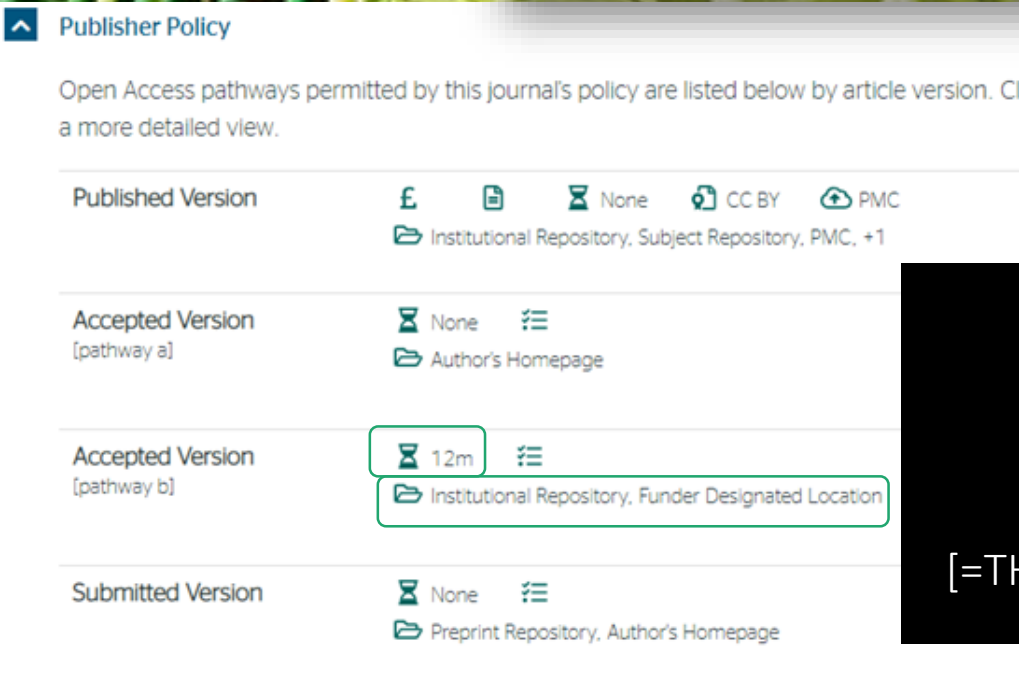
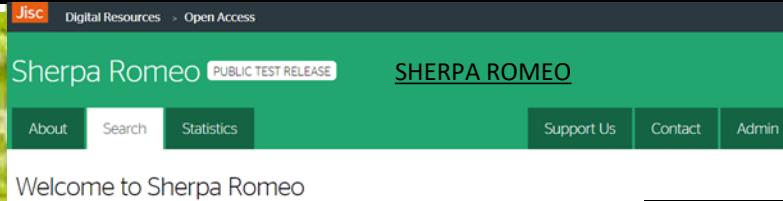
...EVEN MORE: IN
HORIZON EUROPE
YOU MUST DO IT!

YOU CAN DO IT
EVEN ACCORDING TO THE
CURRENT EVALUATION CRITERIA...

THEY ARE NOT MUTUALLY
EXCLUSIVE...

Depos

82% COMMERCIAL PUBLISHERS ALLOW (Elsevier, Wiley, Springer...), CHECK ON SHERPA ROMEO:



IF YOU FIND IT DIFFICULT, IT'S NOT OUR FAULT. CLAUSES ARE IMPOSED BY PUBLISHERS (TO WHOM YOU TRANSFERRED YOUR RIGHTS)

...CLAUSES:
- RARELY «VERSION OF RECORD», MORE OFTEN «AUTHORS' ACCEPTED MANUSCRIPT»
- POSSIBLE EMBARGO
[=THE PAPER IS DEPOSITED BUT IT REMAINS IN CLOSED ACCESS FOR «X» MONTHS]

BEWARE: PUBLISHERS HAVE THEIR SAY ONLY IF YOU TRANSFERRED ALL YOUR RIGHTS



Definitions

PREPRINT/SUBMITTED VERSION:

THE FILE YOU SUBMIT TO THE JOURNAL,
IT DOES NOT CONTAIN YET REVIEWERS' COMMENTS

AUTHOR'S ACCEPTED MANUSCRIPT:

FINAL REVISED VERSION, WITH REVIEWERS' COMMENTS BUT
WITHOUT THE PUBLISHER LAYOUT

VERSION OF RECORD:

PUBLISHED VERSION,
WITH THE PUBLISHER LAYOUT

- EMBARGOES START ON THE DAY OF ONLINE PUBLICATION («AHEAD OF PRINT»)
- EMBARGOES APPLY TO THE ALLOWED VERSION
(I.E. 12 MONTHS ON THE POSTPRINT MEANS THAT AFTER 12 MONTHS THE
POSTPRINT BECOMES VISIBLE, **NOT** THAT AFTER 12 MONTHS YOU CAN DEPOSIT
THE FINAL PDF WITH THE PUBLISHERS' LAYOUT)

Arsenate toxicity on the apices of *Pisum sativum* L. seedling roots: Effects on mitotic activity, chromatin integrity and microtubules

Stefania Dho, Wanda Camusso, Marco Mucciarelli, Anna Fusconi



UNIVERSITÀ DEGLI STUDI DI TORINO

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The definitive version is available at:
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Abstract

Arsenic (As) is one of the most toxic pollutants in the environment, where it severely affects both animal and plant growth. Despite the growing literature data on As effects on plant development, alterations induced by this element on meristem activity of the apical cells were also analyzed. Mitotic aberrations, DNA fragmentation and microtubule organization of the apical cells were also analyzed. The results have shown that arsenate, at the lowest concentration (0.25 μM), slightly increases root growth and some related parameters, whilst the other concentrations have a dose-dependent negative effect on root growth, on the mitotic and labelling index (after bromo-deoxyuridine administration), and on the mitotic arrays of microtubule (through immunofluorescence). The main effects on mitosis occurred for 25 μM As. The percentage of metaphases increased, as did the irregular metaphases and c-mitoses. This was related to alterations in the mitotic spindles, which closely resemble those induced by colchicine. Chromosome breaks and anaphase bridges were virtually absent, whilst DNA fragmentation only increased from 25 μM arsenate onwards. These data point to a poor clastogenic activity of As and implicate that microtubules are one of the main targets of As.

Keywords

Pea; Arsenic; Apical meristems; Aberrations; Immunofluorescence; TUNEL test

1. Introduction

Arsenic (As) is a toxic element, frequently found in soils and water. A main natural source of As is the erosion of mother rock, even though a consistent part of As environmental pollution comes from human activities (Meharg and Hartley-Whitaker, 2002 and Patra et al., 2004). The As in unpolluted fresh water is usually in the range 1–10 $\mu\text{g/L}$. According to EPA and WHO, the maximum permissible As concentration in drinking water is 50 $\mu\text{g/L}$ (Mandal and Suzuki, 2002).

Arsenic is a well-established human carcinogen (Qin et al., 2008a) and has been shown to be genotoxic in a variety of *in vitro* studies (Hughes, 2002). In plants, it severely affects growth and development, and its toxicity is strongly dependent on the concentration, exposure time and physiological state of the plant (Singh et al., 2007). However, plants vary in their sensitivity to As, and a wide range of species have been identified in As-contaminated soils (Meharg and Hartley-Whitaker, 2002). Besides, hyperaccumulators such as *Pteris vittata*, which tolerate high internal As content, may also use this As to defence themselves against herbivore attack (Mathews et al., 2009).

Higher plants take up As mainly as arsenate (V), the dominant form of phytoavailable As in aerobic soils. According to Meharg and Hartley-Whitaker (2002), As competes with phosphate for plant phosphate transporters. Upon absorption, most arsenate is rapidly reduced to arsenite (III), due to an arsenate reductase activity (Xu et al., 2007), hence, the arsenate cytoplasmic concentration is generally not high enough to exert toxicity (Meharg and Hartley-Whitaker, 2002). Both As species interfere with various metabolic pathways: arsenate, as an analogous chemical to phosphate, may replace phosphate in the ATP and in various



Arsenate toxicity on the apices of *Pisum sativum* L. seedling roots: Effects on mitotic activity, chromatin integrity and microtubules

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Arsenic (As) is one of the most toxic pollutants in the environment, where it severely affects both animal and plant growth. Despite the growing literature data on As effects on plant development, alterations induced by this element on meristem activity of the apical cells were also analyzed. Mitotic aberrations, DNA fragmentation and microtubule organization of the apical cells were also analyzed. The results have shown that arsenate, at the lowest concentration (0.25 μM), slightly increases root growth and some related parameters, whilst the other concentrations have a dose-dependent negative effect on root growth, on the mitotic and labelling index (after bromo-deoxyuridine administration), and on the mitotic arrays of microtubule (through immunofluorescence). The main effects on mitosis occurred for 25 μM As. The percentage of metaphases increased, as did the irregular metaphases and c-mitoses. This was related to alterations in the mitotic spindles, which closely resemble those induced by colchicine. Chromosome breaks and anaphase bridges were virtually absent, whilst DNA fragmentation only increased from 25 μM arsenate onwards. These data point to a poor clastogenic activity of As and implicate that microtubules are one of the main targets of As.

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Exposure to high concentrations of As induces the production of reactive oxygen species (ROS) (Singh et al., 2007; Wang et al., 2007; Lin et al., 2008; Shri et al., 2009) and the conversion of arsenate to arsenite is regarded as one of the causes of ROS generation (Wang et al., 2007). Oxidative stress induced by As can damage cells, mainly through lipid peroxidation of membranes (Singh et al., 2007) and DNA fragmentation, as has been demonstrated in leaves and roots

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Green road –self archiving

A photograph showing four elderly men sitting on a wooden bench in front of a shop. The shop has a sign that says 'AU SOLIDA' and displays various items like aprons and bags. There are bookshelves with books and a table with a blue cloth in the background. The scene is brightly lit, suggesting a sunny day.

BENEFIT OF SELF ARCHIVING:

- ZERO COSTS, IMMEDIATELY FEASIBLE
- YOU KEEP PUBLISHING ON THE JOURNALS EVALUATION CRITERIA ASK YOU TO
- BUT YOU «LIBERATE» YOUR PAPER BY DEPOSITING IT IN AN OPEN ARCHIVE

- THEY CAN CLOSE TOMORROW
 - THEY CAN BE BOUGHT TOMORROW

...two of a kind

OFFICE OF SCHOLARLY COMMUNICATION
 UNIVERSITY OF CALIFORNIA

HOME • FEATURES • A SOCIAL NETWORKING SITE IS NOT AN OPEN ACCESS REPOSITORY

A social networking site is not an open access repository

| | Open access repositories | Academia.edu | ResearchGate |
|-------------------------------|--------------------------|--|--|
| Supports export or harvesting | Yes | No | No |
| Long-term preservation | Yes | No | No |
| Business model | Nonprofit (usually) | Commercial. Sells job posting services, hopes to | Commercial. Sells job posting services, hopes to |

LC
 Lenz Caemmerer

<https://goo.gl/RnUszK>

Attorneys and Notaries

Basel
 Attorneys - Notaries:
 Dr. Felix Iselin, notary
 Dr. Gerd Thurnher, J.M.
 f, notary
 y
 Finance Law
 H, LL.M.
 ten-Kiefer
 en
 et
 H, LL.M.
 Ho - EU-Attorney
 ker-Stadt

ResearchGate GmbH

To
 Dr
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ResearchGate vs. publishers

ResearchGate vs. Publishers: The Saga Continues...

Last updated May 8, 2018

May 2018

NEWS

ResearchGate bows to pressure from publishers on copyrighted material



BY REBECCA TRAGER | 15 NOVEMBER 2017

Networking site has moved 1.7 million journal articles from five major publishers so they are no longer accessible to the public [Nov. 15, 2017](#)

A note on recent content takedowns

23 sett 2021

23rd September 2021

ResearchGate

..two of a kind

ResearchGate recently received demands from two publishers – Elsevier and the American Chemical Society (ACS) – to remove certain content that they alleged infringed their copyrights.

These types of requests are not really new: we have received many similar requests from the past, and, in accordance with applicable law, have complied with them. But these most requests were notable because of the number of articles involved. Although privately some researchers were not affected, the demands by Elsevier and ACS resulted in the removal of around 200,000 public files. In the context of a community of over 20 million researchers this is unfortunate, but it has sparked an acute reaction from many of our members who value the importance of open science.

The decision by Elsevier and ACS to simply remove content is disappointing to the entire research community, not just because of the loss to science and researchers, but because there is a better way. Publishers such as Springer Nature and Wiley are working with us to explore the opportunities that openness unlocks for all actors in the scholarly publishing ecosystem, with the researcher at the center. Specifically, through our content syndication program, these publishers have placed their content on ResearchGate (not taken it away) and made it seamlessly available to eligible researchers. This drives the consumption of content, reaches new audiences, and makes discovery and access easier for the researcher. This is the path for a brighter future in science.

We started ResearchGate with the clear vision to transform science into an open endeavour. Initially we met with great resistance from the publishing industry, which was entrenched in a model that put its profits above the needs of the researcher. Over the past decade, however, we've seen the majority of publishers – under pressure from the research community, funders, institutions, and libraries –

ELSEVIER «ONE OF THE LARGEST OPEN ACCESS PUBLISHERS» ☺ HAD MORE THAN 200.000 PAPERS REMOVED

To all authors who were urged to comply with the demands, we will continue to support you.

To all publishers: the future of academic publishing is open. Let's work together to unlock its true potential.



Ashley Farley
@ashleydfarley

Sept. 23 2021

Coming from one of the “largest #OpenAccess publishers” #DubiousValueAdd

Traduci il Tweet



R@ss Mounce @rrounce · 10h

Wow. “the demands by Elsevier and ACS resulted in the removal of around 200,000 public files [from @ResearchGate.]”

Looking for a repository?

OpenDOAR Directory of Open Access Repositories

About Search Statistics Policy Support Contact Admin

Welcome to OpenDOAR

OpenDOAR is the quality-assured, global Directory of Open Access Repositories. You can search and browse through thousands of registered repositories based on a range of features, such as location, software or type of material held, to find it out for yourself:

Repository Name

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ASAPbio

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Directory of preprint server policies and practices

Home / Directory of preprint server policies...

Preprint server directory

Show 10 entries

| Preprint server | Disciplinary scope | Ownership type | External content indexing | Permanence of content | Preservation of content | Other features (commenting, etc) |
|--------------------|---|--|--|---|---|--|
| AAS Open Research | Multiple scientific fields, including health and wellbeing* | Funding organisation (funder) | Google Scholar, Prepubmed, Europe PMC, SciLit | Permanent with some removal options in extraneous circumstances | Preprints permanently archived in Portico | Commenting (including annotation plug-ins), Onsite search, Link to Google Scholar citations, Blog and gateways |
| AfricArxiv | All scientific fields | Academic community group; charity | Google Scholar, SHARE, Microsoft Academic, Unpaywall | Permanent with some removal options in extraneous circumstances | COS Preservation Fund to maintain read access for 50+ years | Commenting (including annotation plug-ins), Onsite search |
| AgriXiv | Relating to agriculture and allied sciences, including life sciences, medicine and health sciences, social and behavioural sciences | Academic community group | Google Scholar, SHARE, Microsoft Academic, Unpaywall | Permanent with some removal options in extraneous circumstances | COS Preservation Fund to maintain read access for 50+ years | Commenting (including annotation plug-ins), Onsite search |
| AMRC Open Research | Broad life & biomedical research, including basic scientific, translational, applied | Funding organisation (funder); Membership organisation | Google Scholar, Prepubmed, Europe PMC, SciLit | | | |

Open access services from Jisc

Services to support open access

Sherpa Services

Helping authors and institutions make informed decisions on open access publication

OPEN ACCESS ARCHIVES

PRE PRINT SERVERS [WITH COPYRIGHT POLICIES]



mrgunn
@mrgunn

Segui

In risposta a @brembs e @ReaderMeter

The whole point of the embargo is so that subscribers can get their money's worth. As you know, I wish everything was open access, but I'm just putting out there why embargoes exist.



Bastian Drees
@BastianDrees

In risposta a @mrgunn, @brembs e @ReaderMeter

The other way round: Any publisher that adds significant value (for the reader) beyond just hosting a text document in a repository does not have to fear any self-archiving and does not need embargoes. <https://twitter.com/BastianDrees/status/981773607234887680>



Björn Brembs
@brembs

Following

In risposta a @ReaderMeter e @mrgunn

Every publisher with an embargo policy does obviously not believe they add any value themselves. So why should we?

Embargo?

IF PUBLISHERS **REALLY** ADDED VALUE TO THE PAPER, THEY SHOULD NOT IMPOSE ANY EMBARGO AS ANYONE WOULD WILLINGLY PAID FOR THAT «PLUS»...



Embargo?

arXiv.org > cs > arXiv:1604.05363

<https://arxiv.org/pdf/1604.05363.pdf>

Search...

Help | A

Computer Science > Digital Libraries

[Submitted on 18 Apr 2016]

Comparing Published Scientific Journal Articles to Their Pre-print Versions

Martin Klein, Peter Broadwell, Sharon E. Farb, Todd Grappone

Academic publishers claim that they add value to scholarly communications by coordinating reviews and contributing and enhancing text during publication. These contributions come at a considerable cost: U.S. academic libraries paid \$1.7 billion for serial subscriptions in 2008 alone. Library budgets, in contrast, are flat and not able to keep pace with serial price inflation. We have investigated the publishers' value proposition by conducting a comparative study of pre-print papers and their final published counterparts. This comparison had two working assumptions: 1) if the publishers' argument is valid, the text of a pre-print paper should vary measurably from its corresponding final published version, and 2) by applying standard similarity measures, we should be able to detect and quantify such differences. Our analysis revealed that the text contents of the scientific papers generally changed very little from their pre-print to final published versions. These findings contribute empirical indicators to discussions of the added value of commercial publishers and therefore should influence libraries' economic decisions regarding access to scholarly publications.

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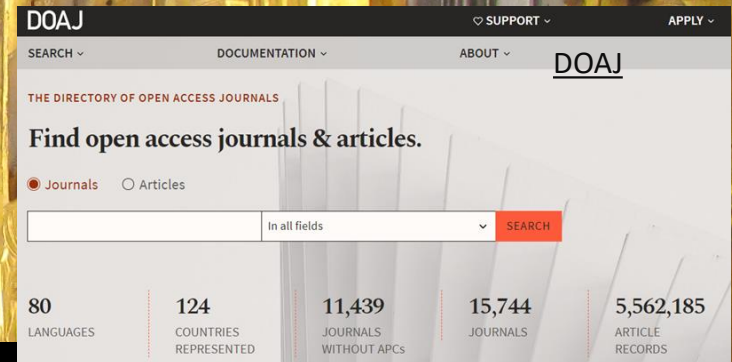
Gold road Publishing in Open Access



SCOAP³ Sponsoring Consortium for
Open Access Publishing in Particle Physics

What is SCOAP³ | SCOAP³ Partners | SCOAP³ Journals | SCOAP³ Books | SCOAP³ Repository | FAQs | Resources | Contact

SCOAP³ converts high-quality subscription journals
in the field of **High-Energy Physics to Open Access**
through re-direction of subscription funds.



DOAJ SUPPORT APPLY

SEARCH DOCUMENTATION ABOUT **DOAJ**

THE DIRECTORY OF OPEN ACCESS JOURNALS

Find open access journals & articles.

Journals Articles

In all fields SEARCH

| | | | | |
|-----------------|---------------------------------|------------------------------------|--------------------|---------------------------------|
| 80 LANGUAGES | 124 COUNTRIES REPRESENTED | 11,439 JOURNALS WITHOUT APCs | 15,744 JOURNALS | 5,562,185 ARTICLE RECORDS |
|-----------------|---------------------------------|------------------------------------|--------------------|---------------------------------|

- YOU MIGHT HAVE TO CHANGE YOUR PUBLISHING VENUE
- MORE THAN 17.000 OPEN ACCESS JOURNALS LISTED IN DOAJ, DIRECTORY OF OPEN ACCESS JOURNALS [STRONG SELECTION CRITERIA]
- **29% ASK FOR APC - ARTICLE PROCESSING CHARGES**, GOING FROM 250 A 2900 \$ PER ARTICLE (IT'S THE SAME LOGIC OF THE STAMP...)
- EVEN TRADITIONAL COMMERCIAL PUBLISHERS ASK A FEE FOR FIGURES, MORE PAGES...

Pay attention!

SUBSCRIPTIONS

- PAID EVERY YEAR
- EVERY INSTITUTION PAY FOR THE SAME CONTENT
- INCREASE EVERY YEAR
- CLOSE THE CONTENT FOR THOSE WHO HAVE NO SUBSCRIPTION

APCs

- PAID ONCE AND FOREVER
- PAID ONLY BY THE AUTHORS' INSTITUTION
- OPEN THE CONTENT TO ALL

DON'T MIX

- **NATIVE OPEN ACCESS** PUBLISHERS [NO REVENUE BUT APCs]
- **TRADITIONAL PUBLISHERS** OFFERING AN «**OPEN OPTION**» [MAIN REVENUE STREAM IS STILL SUBSCRIPTIONS, ... SO DOUBLE DIPPING]

[how to chose in D

Three tips to choose a publishing venue using the Directory of Open Access Journals (DOAJ)

Published on January 11, 2021

Jan. 11, 2021



Andrea Chiarelli

Senior Consultant at Research Consulting | Enhancing the effectiveness and impact of research

4 articles

✓ Following

Tip 1: Find a good match

First of all, I set out to find a journal that suited my research topic (which will sound obvious to anyone who has published academic articles in the past!). This was straightforward on the DOAJ website, as I simply **entered "small business" in the search field** and I was provided with ten options covering small business strategy and entrepreneurship.

Tip 2: Think about the essentials

After identifying journals with an appropriate scope, I started thinking about should-haves and could-haves. I admit I haven't done this in the past, when publishing at better known publishers, but this was certainly an oversight on my part! Thinking about what I wanted to get out of my publishing experience proved really insightful.

To begin with, I considered what I felt would be essential (**must-haves**). I was particularly interested in finding a journal that could offer:

- a permissive open access licence (e.g. Creative Commons);
- high-quality, double-blind peer review; and
- Digital Object Identifiers, or DOIs (rather than Handles - see [this page](#) if you'd like to learn about the difference between the two).

Tip 3: Consider what could elevate your publishing experience

The must-haves I set helped me narrow down the results shown by the DOAJ website after filtering by scope. I then moved on to consider the features that my ideal journal **should have**. Particularly, I was interested in:

- article-level citation metrics (views, download, citations);
- indexing in relevant databases and search engines;
- a digital preservation strategy; and
- a reasonable peer review and publication time.

- TOPIC (AND COSTS)
- WHAT IS ESSENTIAL FOR YOU
- WHAT ADDS VALUE

«red road» / HYBRID

GOLD ROAD IS NOT THE «OPEN CHOICE» OFFERED BY TRADITIONAL COMMERCIAL PUBLISHERS (ELSEVIER, SPRINGER, WILEY...)

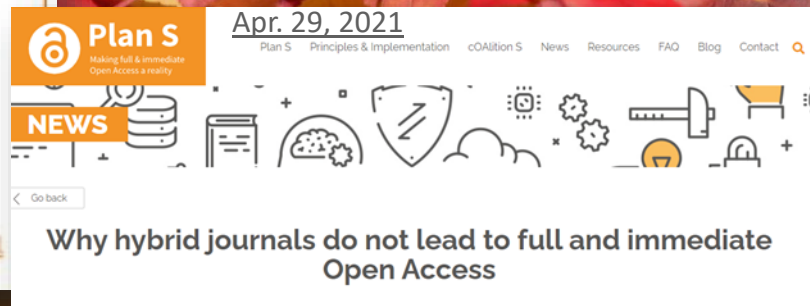
In a nutshell

- > [Hybrid has not facilitated a transition to Open Access \(OA\)](#)
- > [The research community pays twice \(double dipping\)](#)
- > [Hybrid journals are more expensive than fully OA journals](#)
- > [Hybrid journals provide a poor quality of service](#)
- > [Hybrid journals crowd out new, full OA publishing models](#)
- > [Reader access: a hybrid journal is a "random OA" journal](#)

PAYING A 3000 \$ APC,
YOUR SINGLE ARTICLE BECOMES OPEN ACCESS,
BUT THE JOURNAL IS STILL BY SUBSCRIPTION

SO, YOU PAY TWICE...

[TO BE AVOIDED – YOU GET THE SAME RESULT
SELFARCHIVING FOR FREE]



Plan S
Making full & immediate
Open Access a reality

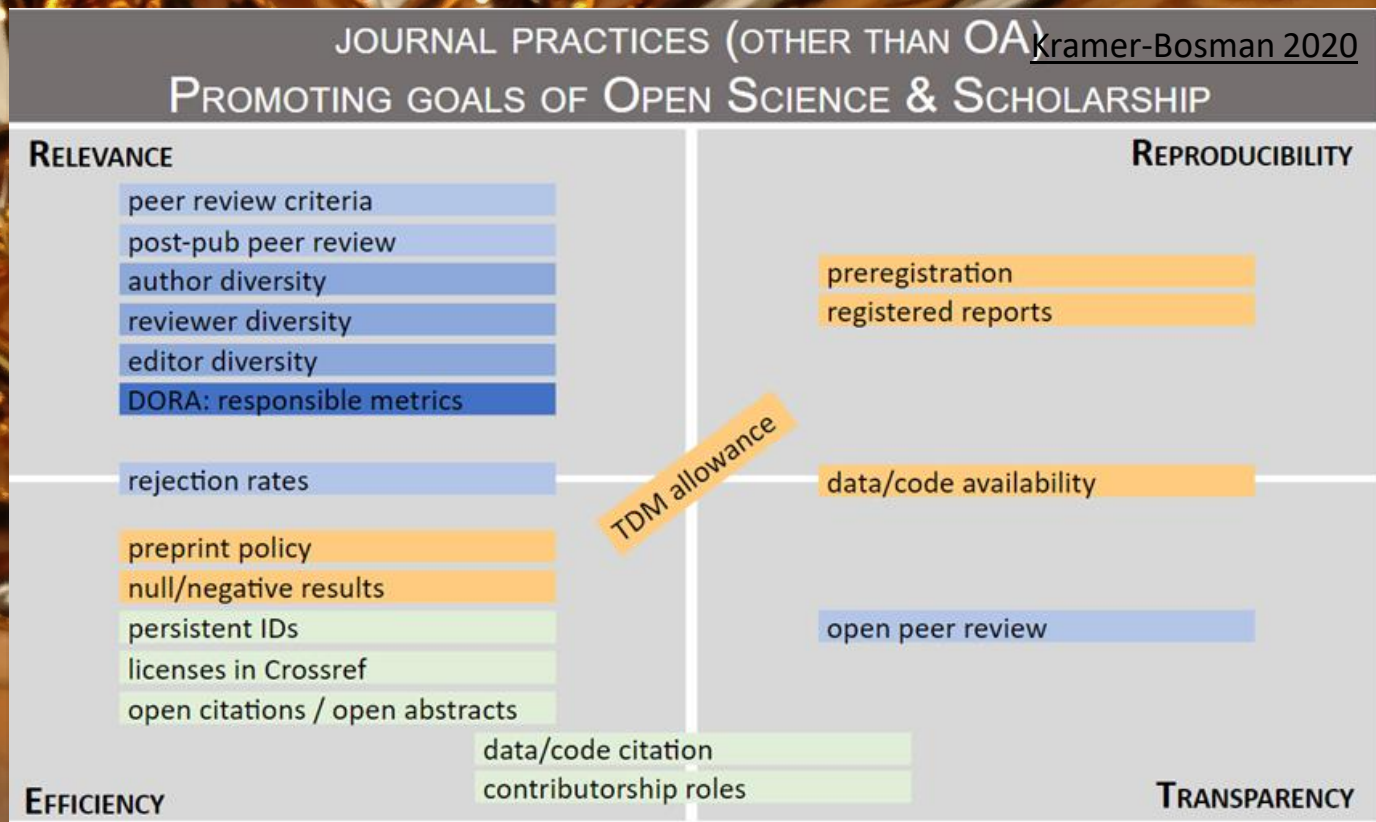
Apr. 29, 2021
Plan S Principles & Implementation cOAlition S News Resources FAQ Blog Contact

NEWS

Why hybrid journals do not lead to full and immediate Open Access

The screenshot shows a news article header for Plan S. The date is April 29, 2021. The article title is "Why hybrid journals do not lead to full and immediate Open Access". The Plan S logo is visible, along with navigation links for Plan S, Principles & Implementation, cOAlition S, News, Resources, FAQ, Blog, and Contact. A "NEWS" banner is present, and a "Go back" button is visible at the bottom left of the article header.

Are OA journals different?



Dec. 2020

Elsevier looking into “very serious concerns” after student calls out journal for fleet of Star Trek articles, other issues

An undergraduate student in the United Kingdom has taken to task the editors of a purportedly scholarly journal for having



Springer Nature geosciences journal retracts 44 articles filled with gibberish

Nov. 4 2021



Springer Nature has retracted 44 papers from a journal in the Middle East after determining that they were rubbish.

The articles, which showed up in the *Arabian Journal of Geosciences* starting earlier this year, many of which involve at least some researchers based in China, and from their titles appear to be utter gibberish — yet managed still to pass through Springer Nature’s production system without notice.

The retractions follow the flagging of more than 400 papers by the publisher for concerns about “serious research integrity” breaches in the articles. Those concerns were first surfaced by a commenter on PubPeer and by a group of researchers who have been identifying and exposing nonsense papers.

Predatory?

QUALITY DEPENDS ON
EDITORIAL PROCESS
NOT BUSINESS MODEL

(Springer 107 retractions for false review,
Elsevier 7 journals retracted, paid by Big Pharma)

ONLY
2%-5%

IF REVIEWS
WERE PUBLIC...

...AND IF YOU WEREN'T UNDER THE
PUBLISH OR PERISH PRESSURE, WOULDN'T
YOU BE MORE CAREFUL IN CHOOSING
YOUR PUBLICATION VENUE?

A new se



Test a journal

Predatory journals and publishers

Methodology

About

<https://app.lib.uliege.be/compass-to-publish>

Compass to Publish (Beta Version)

Are you suspicious of a journal's authenticity? Is it a predatory journal?

These are legitimate questions if you're invited to submit a paper that:

- promises your rapid publication;
- has procedures and/or policies that look suspicious;
- is outside of your area(s) of expertise.

Compass to Publish

FEEDBACK

| Question | Answers |
|---|---------------------|
| <input type="radio"/> Does the journal have the registered trademark "Impact Factor" (Clarivate Analytics TM)? Check here. | Yes (10) - No (-10) |
| <input type="radio"/> <input checked="" type="radio"/> Does the journal pretend to have an "Impact Factor", or does it use questionable metrics whose na... | Yes (-5) - No (5) |
| <input type="radio"/> Is the journal really included in the various databases mentioned on its website? Check on MIAR | Yes (0) - No (-10) |

5. Editorial board and peer review

| Question | Answers |
|--|-------------------|
| <input type="radio"/> <input checked="" type="radio"/> Are the editorial board members mentioned on the website? | Yes (1) - No (-1) |
| <input type="radio"/> Do the members of the editorial board seem legitimate, especially the editor-in-chief? | Yes (1) - No (-1) |
| <input type="radio"/> Does the possibly announced peer review policy seem surprisingly rapid for your discipline(s)? | Yes (-3) - No (3) |

6. Content and presentation

| Question | Answers |
|---|--------------------------------------|
| <input type="radio"/> Are the journal's articles really free and open for access? | Yes (1) - No (-5) - I don't know (0) |
| <input type="radio"/> Is the journal's website obviously author-oriented rather than reader-oriented? | Yes (-3) - No (1) - I don't know (0) |
| <input type="radio"/> If contact details of the journal / publisher can easily be identified, do they look legitimate? | Yes (0) - No (-3) - I don't know (0) |
| <input type="radio"/> Are the articles clearly related to the journal's aims and scope? | Yes (1) - No (-3) - I don't know (0) |
| <input type="radio"/> Does the journal and / or the publisher boast an international reputation or pretend to be a major... | Yes (-2) - No (0) - I don't know (0) |

7. Communication strategies

| Question | Answers |
|---|--------------------------------------|
| <input type="radio"/> <input checked="" type="radio"/> Do you repeatedly get unsolicited email (spam) from the journal / publisher? | Yes (-3) - No (0) - I don't know (0) |
| <input type="radio"/> Do these unsolicited emails offer you to republish an already published or archived text? | Yes (-5) - No (0) - I don't know (0) |

[just to recap]

DEPOSIT SOME
READY PUBLISHED

DEPOSIT

INSTITUTIONAL/
DISCIPLINARY
REPOSITORIES

- «LIBERATE» YOUR PAPER PUBLISHED IN A SUBSCRIPTION JOURNAL
- YOU KEEP PUBLISHING IN THE MOST PRESTIGIOUS JOURNALS AND YOU ARE COMPLIANT WITH THE CURRENT ASSESSMENT CRITERIA

DOES NOT CHANGE THE
CURRENT SYSTEM BASED ON
JOURNALS

ALWAYS CHECK ON

Sherpa Romeo

YOU PUBLISH DIRECTLY IN OPEN

PUBLISH

FULLY OPEN ACCESS
JOURNALS

THEY CAN BE

- **GOLD** (you pay APCs)
- **DIAMOND** (none pays)

- YOUR PAPER IS **IMMEDIATELY OPEN**
- **TEAR DOWN PAYWALLS**

- THERE MIGHT BE COSTS
- IT MIGHT NOT BE THE «MOST PRESTIGIOUS» JOURNAL

PUBLISHING
PLATFORMS, PREPRINT
SERVERS, OPEN
NOTEBOOKS....

- THEY ARE **REALLY INNOVATIVE**
- THEY CAN **DISRUPT THE CURRENT DYSFUNCTIONAL SYSTEM**

- THEY ARE STILL **NOT «RECOGNIZED»** IN RESEARCH EVALUATION/FOR CAREER
- YOU NEED TO BE «BRAVE» IF YOU WANT TO GO **EXCLUSIVELY** FOR THESE TOOLS
- ...BUT REMEMBER THE CASE OF PREPRINTS IN AUSTRALIA: YOU DRIVE THE CHANGE!

IF YOU WANT TO BE OPEN YOU CAN PUBLISH IN...

DEPOSIT TO BE OPEN



TRADITIONAL
SUBSCRIPTION
BASED JOURNAL

**THEN YOU HAVE
TO DEPOSIT**
YOUR PAPER IN
THE
INSTITUTIONAL
REPOSITORY
(CHECK THE ALLOWED
VERSION AND POSSIBLE
EMBARGO IN SHERPA
ROME0)

NOTE: IF YOU ARE FUNDED BY
PLAN_S OR HORIZON EUROPE
YOU HAVE TO RETAIN RIGHTS
TO GIVE IMMEDIATE ACCESS,
NO EMBARGO ALLOWED

NO NEED TO DEPOSIT – YOU ARE ALREADY OPEN



HYBRID JOURNAL
(SUBSCRIPTION BASED,
OFFERING AN «OPEN
CHOICE»)

TO BE AVOIDED...
YOUR INSTITUTION
PAYS TWICE, FOR
THE SUBSCRIPTION
AND THE APC FOR
YOUR SINGLE
ARTICLE
+ NOT ADMITTED IN
PLAN_S
+ ADMITTED BUT
NOT REIMBURSED IN
HORIZON EUROPE



SUBSCRIPTION
JOURNAL UNDER
TRANSFORMATIVE
AGREEMENT

THANKS TO SOME
TRANSFORMATIVE
AGREEMENTS
/SCOAP3
NEGOTIATED, **YOU
ARE ALLOWED TO
PUBLISH FOR FREE**
[A LIMITED
AMOUNT OF] **OPEN
ACCESS ARTICLES** IN
JOURNALS STILL BY
SUBSCRIPTION BUT
SHIFTING TO OPEN
ACCESS.



FULLY OPEN
ACCESS JOURNAL

YOU CAN CHOOSE A
FULLY OPEN ACCESS
JOURNAL IN DOAJ

YOU MIGHT HAVE
TO PAY APCs BUT
PLAN_S IS PAYING
FOR YOU

HORIZON EUROPE
WILL REIMBURSE

Plans

There are three routes for being compliant with Plan S:

| | Open Access publishing venues (journals or platforms) | Subscription venues (repository route) | Transition of subscription venues (transformative arrangements) |
|-------|--|---|---|
| Route | Authors publish in an Open Access journal or on an Open Access platform. | Authors publish in a subscription journal and make either the final published version (Version of Record (VoR)) or the Author's Accepted Manuscript (AAM) openly available in a repository. | Authors publish Open Access in a subscription journal under a transformative arrangement. |
| | | | cOAlition S funders can contribute financially to Open Access publishing under transformative arrangements. |

JOURNAL CHECKER TOOL

Journal checker

BETA

Is this compliant with Plan S ?

JOURNAL

MY FUNDER

By ISSN or title



By funder name

Plan S Rights Retention Strategy

<https://www.coalition-s.org/rights-retention-strategy/>

Summary

cOAlition S has developed a *Rights Retention Strategy* to give researchers supported by a [cOAlition S Organisation](#) the freedom to publish in their journal of choice, including subscription journals, whilst remaining fully compliant with Plan S.

cOAlition S Organisations will facilitate this by changing their grant conditions to require that a Creative Commons Attribution licence (CC BY^[1]) is applied to all Author Accepted Manuscripts (AAMs^[2]) or Versions of Record (VoR^[3]) reporting original research, supported in whole or in part by their funding.

- JOURNAL CHECKER
- RIGHTS RETENTION STRATEGY

[PlanS]



Publisher practices

> Confusing and misleading guidance to authors

For example, some publishers indicate that they do not "support" rights retention. cOAlition S funded researchers do not need the publisher's permission to immediately share their AAM zero embargo with a CC BY licence, as long as the publisher has been given notice of the prior licence. The [July 2020 letter to publishers](#) made this clear, and these requirements are reinforced by funded researchers who are required to include specific language with every submission.

Other publishers suggest that authors can only comply with funders' requirements by using a gold open access route. That is simply incorrect. The [JCT](#) provides guidance here.

> Rejecting submissions to a subscription journal that carry the RRS language and re-routing these submissions to full Open Access journals

To avoid the possibility that an AAM in a subscription journal is made open access without embargo, the publisher may try to re-route the submission to a fully open access journal in which they publish. Such a re-routing process should be explicitly highlighted at the start of the submission process.

> Modifying submission systems such that authors are required to agree to paying an open access fee (Article Processing Charge)

In this example, publishers only allow articles to be submitted to a hybrid journal if the author agrees to pay an APC, even though the publisher is aware that the cOAlition S funder will not cover these costs and that the author may not have access to alternative funds for the APC. We urge researchers to be cautious about what they sign or select on their submission screens.

> Encouraging authors to breach their funder's grant conditions

Some publishers, who recognise that from a copyright perspective the prior licence trumps any conflicting provision in a subsequent licence, are now asking authors to agree to specific terms within their publishing agreements to try and stop them sharing their AAM immediately on publication.

BEWARE OF MIDDLEADING GUIDANCE BY PUBLISHERS

Plan S Price Transparency Frameworks: guidance & requirements

The Fair Open Access Breakdown of Publication Services and Fees

| Service baskets | Components | Specify | % | Price |
|-----------------------------------|---|---|----------------|-------|
| 1. Journal operations | - Journal support and submission system - Platform development and maintenance - Helpdesk & other support staff | In/out house | | |
| 2. Publication | - Triaging - Organization peer review - Other Editorial assistance - Indexing - Archiving | - Typesetting - Copy-editing - Language editing - Proofreading | Rejection rate | |
| 3. Fees | - Scientific editors fees - Scholarly societies fees | | Agreements | |
| 4. Communication | - Dissemination - PR & marketing | - Community support - Advocacy | | |
| 5. General | - Management & administration - Other business costs - Taxes | Can be allocated elsewhere since it is not a service | | |
| 6. Surplus | | - Can be allocated elsewhere - Cross-subsidizing of titles? | | |
| 7. Discounts & waivers | | Policy | | |

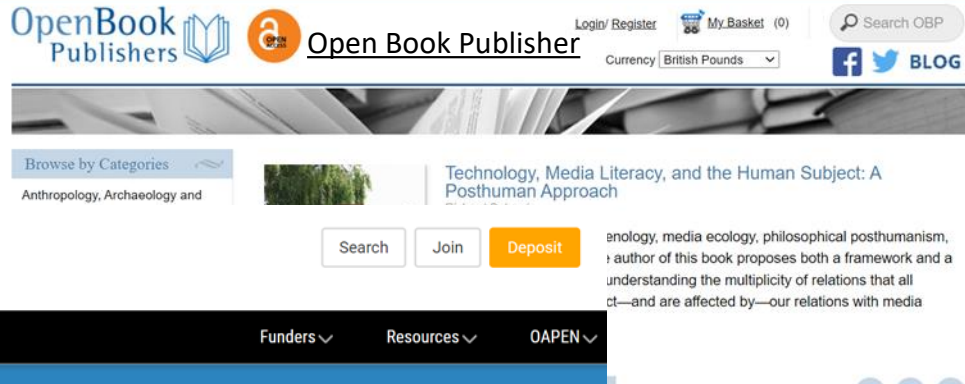
Total publication fee per article


(Average for: i. all journals of a publisher, ii. one journal, iii. a subset of journals)

- Rules:**
- Baskets 1-7 represent the minimum information required.
 - These can be extended to a maximum of 10 baskets as publishers see fit for their operations.
 - For Baskets 1, 2 and 5, several components must be specified, though 5 can be allocated elsewhere.
 - Components can be joined together or extended.

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FOR

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- For Publishers
- For Researchers
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- Resources
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OAPEN

Online library and publication platform



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Researcher-Led Publishing

Ubiquity Press is an open access publisher of peer-reviewed academic journals, books and data. We operate a highly cost-efficient model that makes quality open access publishing affordable for everyone.



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 Journal of Open Psychology Data @up_jopd

 BIG NEWS DROP  POLL BELOW

Having data OPEN is great, and really makes a difference to science, but it doesn't necessarily mean it's easy to use and accessible. Open \neq FAIR. So what can we do?

12:42 PM · Sep 22, 2021

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OLH reopens applications to flip subscription journals to open access

Posted by Paula Clemente Vega on 2021-09-10

... a long way to go

The screenshot shows the homepage of the Open Access Books Network. At the top left is the 'HC HUMANITIES COMMONS' logo. A search bar is located at the top center. On the left side, there is a navigation menu with items like 'News Feed', 'Members', 'Groups', 'Sites', 'CORE Repository', 'Help & Support', 'HC Organizations', 'About', 'Roadmap', and 'Team Blog'. The main header features a large image of a library with the text 'Open Access Books Network' and 'Public 121 Group Members'. Below this, there are tabs for 'Activity', 'Discussion', 'Events', 'Site', 'From CORE', 'Docs', 'Files', and 'Members'. A section titled 'Open Access Books Network' is visible, with a sub-section 'About this group' and a note '7 Topics And 22 Replies'. The last update is attributed to 'Tom Grady 1 day, 2 hours'.

OA books network

The screenshot shows the OAPEN OA Books Toolkit website. At the top left is the 'open Open Access Publishing in European Networks' logo. The navigation bar includes 'About OA', 'The OA Books landscape', and 'About the Toolkit'. The main content area has a yellow background with the text 'OAPEN OA Books Toolkit' and 'For authors'. A sub-section 'This toolkit aims to help...' is partially visible. At the bottom, there are three buttons: 'Life cycle', 'FAQ', and 'Keywords'.

OABooks toolkit

The OAPEN Open Access Books Toolkit covers specific topics related to open access books. Each article offers a quick and brief introduction to a particular aspect of open access book publishing. The toolkit also serves as a signposting tool: articles include a list of sources referenced, further reading and links to definitions of key terms.

The OAPEN Open Access Books Toolkit covers specific topics related to open access books. Each article offers a quick and brief introduction to a particular aspect of open access book publishing. The toolkit also serves as a signposting tool: articles include a list of sources referenced and links to definitions of key terms.



Research life cycle

The toolkit makes use of a typical research lifecycle, consisting of the following eight stages. Click on each stage to find related articles.

- ▶ Planning and Funding
- ▶ Conduct Research
- ▶ Consider Publishing Options
- ▶ Write & submit manuscript
- ▶ Peer review
- ▶ Book contract and License
- ▶ Book is published & disseminated
- ▶ Research is reused



... what about rights? / 1

KEY CONCEPT: NOT EVERYTHING YOU FIND ON THE WEB IS FREE TO USE

- RIGHTS IN (MAY I USE OTHER PEOPLE'S MATERIAL?)
- RIGHTS OUT(WHAT CAN PEOPLE DO WITH MY WORK?)

CAN I USE THAT PICTURE?

REVISED!
(and simplified)

[a "picture" is any photograph, drawing, cartoon, logo, icon, infographic, chart, graph, work of art, or doodle you want to use for some purpose]

do you own the COPYRIGHT?

copyright
[kop-ee-rahyt]

the exclusive, legal right to use, duplicate, sell, edit, or exploit an image.

DID YOU CREATE THE PICTURE YOURSELF?
Did you shoot, draw, design, or otherwise produce the image?

YES NO

DID YOU GET PERMISSION FROM THE OWNER?
Did you get written permission to use the image from the person or company who owns the copyright?

YES NO

DID YOU PURCHASE THE RIGHT TO USE IT?
Did you pay the owner of the copyright for the right to use the image, under their guidelines?

YES NO

is the image licensed with CREATIVE COMMONS?

creative commons
[kree-ey-tiv kom-uhnz]

a set of licenses that allows people to use, share, edit, or sell an image without permission, but with copyrighted restrictions.

DID YOU FIND THE IMAGE ON A SITE THAT USES CREATIVE COMMONS LICENSES?
Are you using the image according to the copyright owner's specified restrictions?

Do you see licenses that look like these on the website from where you found the image?

Visit <https://creativecommons.org/licenses/> to see if you're using the image according to the license agreement.

YES NO

YES!
If you created the picture yourself, obtained permission, purchased the rights, appropriately followed creative commons parameters, OR found the photo in the public domain, you should be good to use the picture!

is the image in the PUBLIC DOMAIN?

public domain
[puhb-lik doh-meyn]

an image whose copyright has expired, is no longer protected by copyright, and is available to use for any purpose by any person at any time.

WAS THE IMAGE CREATED BY THE GOVERNMENT?
Was it created for the U.S. government by government employees?

YES NO

HAS THE COPYRIGHT EXPIRED?
Was the image published in the U.S. before 1923, OR has the author/creator of the image been dead for more than 70 years?

YES NO

DID THE CREATOR PUT IT IN THE PUBLIC DOMAIN?
Did you find the image on a site where authors/creators have relinquished the copyright?

YES NO

are you using it under FAIR USE?

fair use
[fair yooos]

using copyrighted material without permission by assuming reasonable, non-commercial use that typically benefits the greater good.

ARE YOU USING THE IMAGE TO COMMENT, CRITIQUE, OR PARODY?
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YES NO

IS THE IMAGE BEING USED FOR EDUCATIONAL PURPOSES?
Are you in a designated educational space, such as a school or university, using the image solely to educate?

YES NO

PROBABLY!
Fair use laws aren't always cut-and-dry, but if you're not using the image commercially AND you can answer "Yes" to one of the above questions, you are probably okay to use the picture.

NO!
If you answered "no" to all of the above questions, you should either obtain permission from the copyright owner or not use the picture!

[to find a reusable photo]



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Picture of the day



A female African bush elephant (*Loxodonta africana*) with her six-week-old baby in the Maletsi Safari Area, Zimbabwe, having just crossed the border from Botswana.



... what about rights? / 2

UNDERSTAND AND
KEEP YOUR RIGHTS!!!



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Library

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Author Rights Resources: Understanding Author Rights

Search this Guide Search

The resources in this guide are designed to help authors understand and maintain their rights throughout the scholarly publication process.

URL: <https://guides.library.cornell.edu/authorrights>

[Home](#) [Understanding Author Rights](#) [Understanding Publisher Methods](#) [Navigating the Process](#) [Glossary & Resources](#) [Open Access Resources](#)

What are Author Rights?

People often use the terms "author rights" and "literary rights" to mean copyrights. Copyrights are legal rights that attach to certain types of intellectual property. Copyrights are granted under federal law to authors of creative works at the time of the work's creation in a fixed, tangible form. Authors do not have to apply for or file a copyright.

Section 106 of the Copyright Act states that only the owner of a copyright has the authority to use the work in one of six ways (examples of each provided as bullet points):

1. **To reproduce the work**
 - E.g., make physical or digital copies of your work for colleagues, students, or others
2. **To prepare derivative works based upon the work**
 - E.g., prepare a subsequent article, chapter, or book that builds upon their original or prior research on a particular topic
3. **To distribute copies of the work**
 - E.g., distribute physical or digital copies of your work to colleagues, students, or at conferences
4. **To publicly perform the work**
 - E.g., show video of your field work in the classroom or at conferences

Why Care about Author Rights?

Despite the power authors have as copyright owners, they become powerless when naively signing away their copyrights when executing an author agreement. Most author rights agreements transfer **all** copyrights to the publisher in their entirety. Researchers should thoroughly read their publishing agreements and discuss them with their [Library liaison](#) or the [Copyright Information Center](#) before signing to verify what rights they are being asked to give away.

A complete transfer of copyright can have the following negative implications:

- Transferring *distribution* rights may prohibit an author from publishing the work in a repository or other source as required by the terms of a funding agreement;




Transferring reproduction, distribution, public

Licenses – 4 rights

Four rights [\[edit \]](#)

[Wikipedia](#)

The CC licenses all grant "baseline rights", such as the right to distribute the copyrighted work worldwide for non-commercial purposes and without modification.^[27] In addition, different versions of license prescribe different rights, as shown in this table:^[28]

| Icon | Right | Description |
|--|-------------------------------------|--|
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SA – Adaptations must be shared under the same terms



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BY – Credit must be given to the creator

ND – No derivatives or adaptations of the work are permitted



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CC BY-NC-ND includes the following elements:

BY – Credit must be given to the creator

NC – Only noncommercial uses of the work are permitted

ND – No derivatives or adaptations of the work are permitted

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CC0 (aka CC Zero) is a public dedication tool, which allows creators to give up their copyright and put their works into the worldwide public domain. CC0 allows reusers to distribute, remix, adapt, and build upon the material in any medium or format, with no conditions.

[CC Licenses](#)

Licenses

The screenshot shows the Creative Commons website's license selection process. At the top, there is a green navigation bar with the Creative Commons logo and links for About, Licenses, Public Domain, Support CC, Projects, Blog, and News. Below this is an orange banner with the text "Keep the internet creative, free and open." and a "Donate to Creative Commons" button. The main content area is white and contains several panels. The top panel has links for "New to Creative Commons?", "Considerations before licensing", "How the licenses work", "Explore the Creative Commons licenses.", "Want public domain instead?", and "Looking for earlier license versions, including ports?". The "License Features" panel on the left allows users to choose whether to allow adaptations and commercial uses, with options for "Yes" and "No", and a "Yes, as long as others share alike" option. The "Selected License" panel on the right shows the chosen license: "Attribution-ShareAlike 4.0 International", with icons for CC, BY, and SA, and a "This is a Free Culture License!" badge. The "Help others attribute you!" panel at the bottom left has a text input field for the "Title of work". The "Have a web page?" panel at the bottom right shows a license icon and the text "This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License." Arrows indicate the flow from the license features to the selected license, and then to the attribution and web page options.

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[[Looking for earlier license versions, including ports?](#)]

License Features

Your choices on this panel will update the other panels on this page.

Allow adaptations of your work to be shared?

Yes No


Yes, as long as others share alike


Allow commercial uses of your work?

Yes No

Selected License

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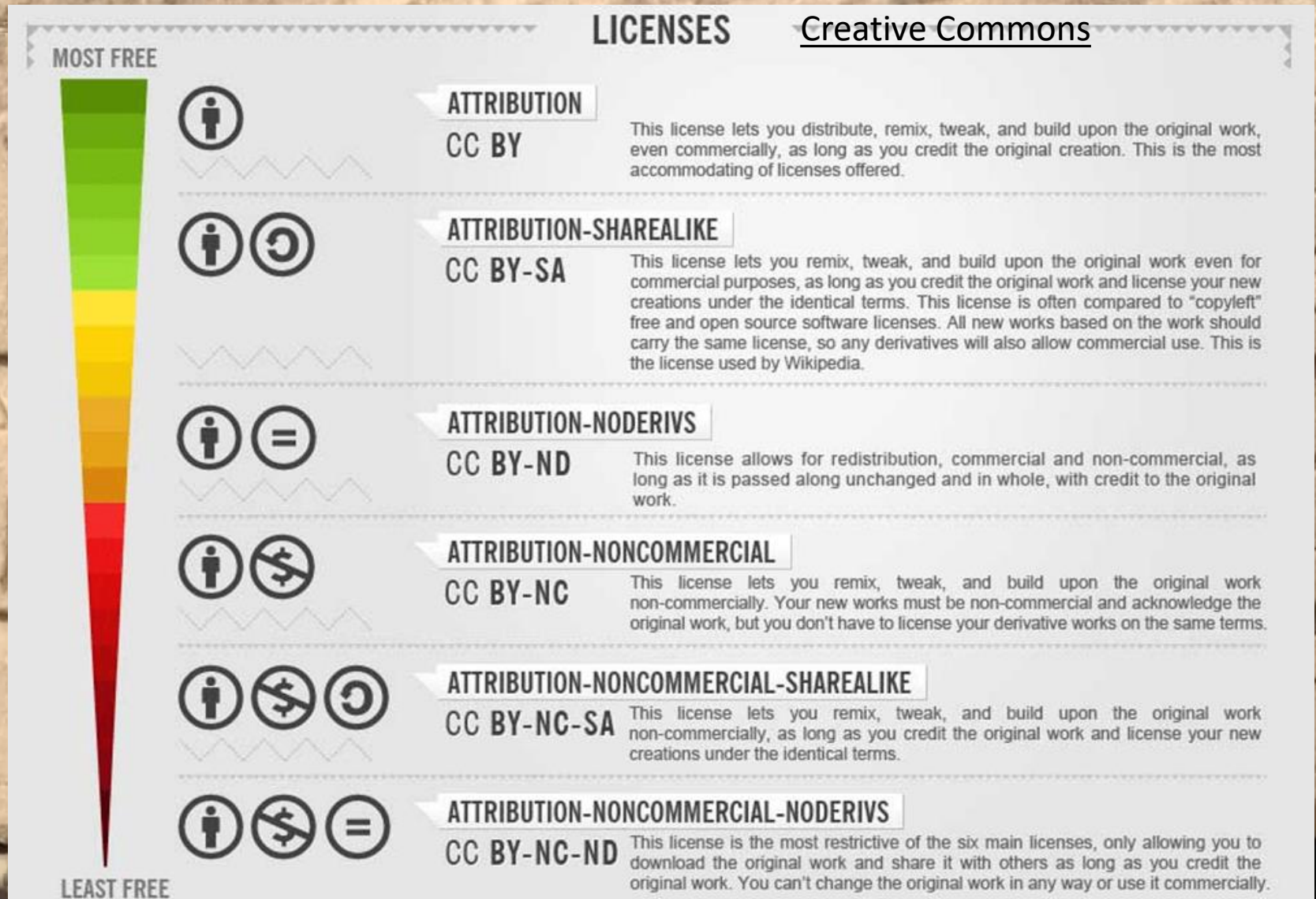
Title of work

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