

Open Access and the challenge of Open Science

Arianna Bottinelli

Open Access Publishing in a nutshell

Research is freely accessible to/reusable by everyone at publication
Sustained by Article Pressing Charges (APCs)
Paid by authors of accepted papers
Authors keep the copyright



You may have heard of...

Open Science

Reproducibility

Credibility

Scientific misconduct

cOAlitionS & Plan S

Open Source

Accessibility

Open Data

Reusability

Open Notebook

Copyright

Open Access

Research impact evaluation

Transparent review process

open issues

You may have heard of... retractions and scandals

Vaccines causing autism!!! Wakefield et al., *The Lancet* (1997), retracted in 2010, antivaxxers still alive in 2020..

Bad practice, CoIs, ethical misconduct

You may have heard of... retractions and scandals

Vaccines causing autism!!! Wakefield et al., *The Lancet* (1997), retracted in 2010, antivaxxers still alive in 2020..

Bad practice, CoIs, ethical misconduct

Prof Arnold's retraction (Science 2019)

Results could not be reproduced

Key experiments missing, too busy to properly check the submission



You may have heard of... retractions and scandals

Vaccines causing autism!!! Wakefield et al., *The Lancet* (1997), retracted in 2010, antivaxxers still alive in 2020..

Bad practice, CoIs, ethical misconduct

Prof Arnold's retraction (Science 2019)

Results could not be reproduced

Key experiments missing, too busy to properly check the submission



“Schön scandal” Bell Labs (New Jersey, USA), 2001

Non-conducting molecules can be turned into semi-conductors.

Almost a Nobel prize.. Other labs couldn't reproduce the same results

Fabricated data, experimental evidence vanished...

Are we facing a “reproducibility crisis”?



NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.

Are we facing a “reproducibility crisis”?

nature

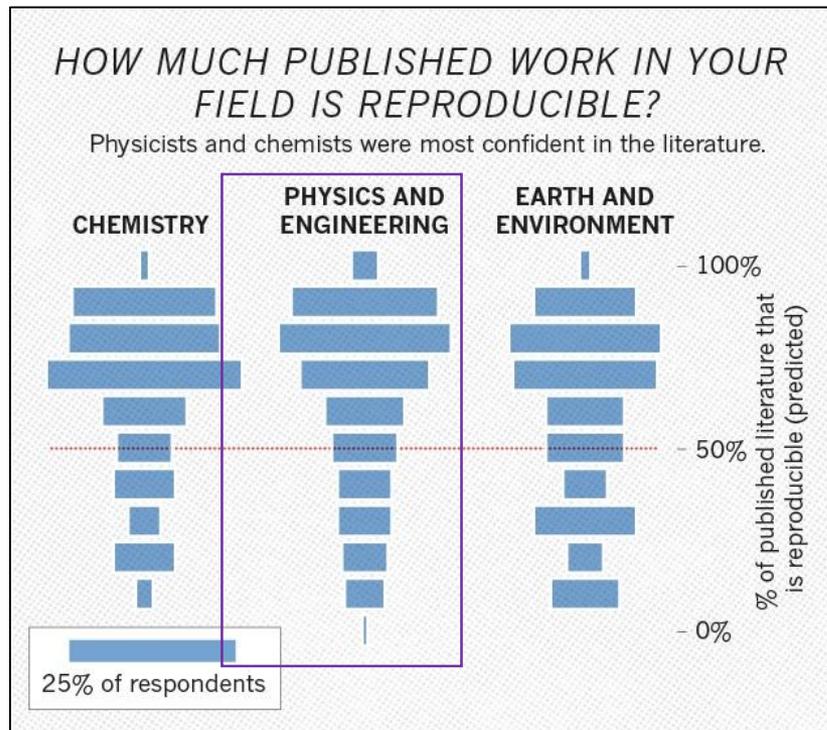
SPECIAL | 18 OCTOBER 2018

Challenges in irreproducible research

NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



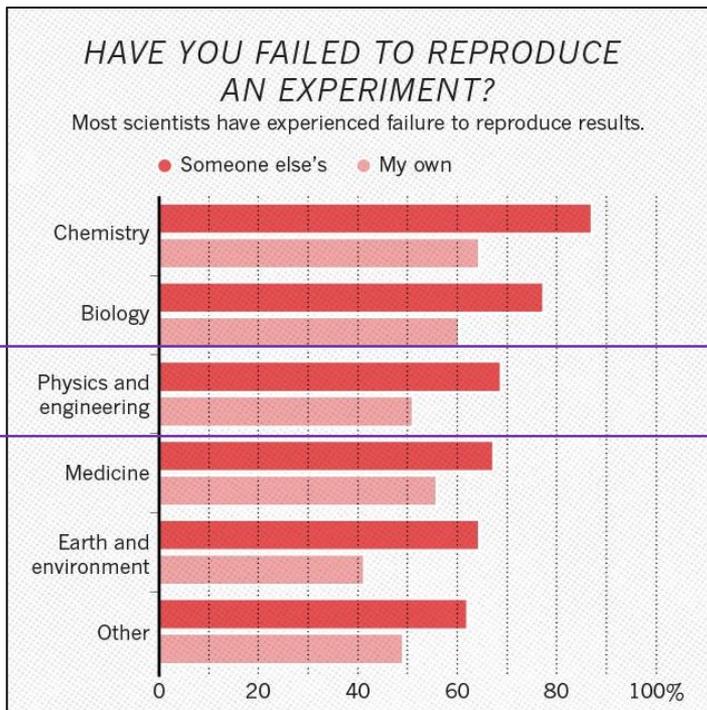
Are we facing a “reproducibility crisis”?



NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



70% failed to reproduce other’s experiments
50% failed to reproduce their own!

Are we facing a “reproducibility crisis”?



Causes?

Pressure to publish, competition

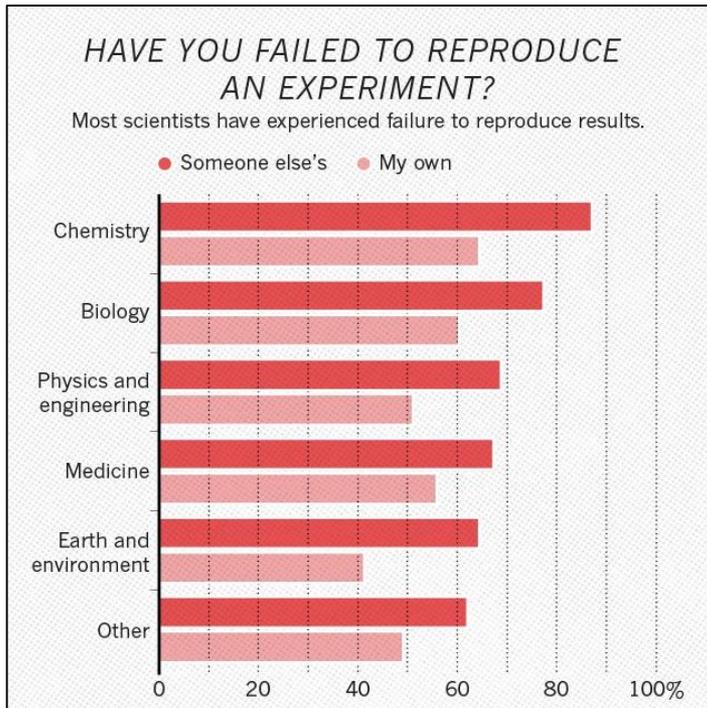
Insufficient mentoring

Lack of transparency in methods

NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



Are we facing a “reproducibility crisis”?



{ Increased awareness ? }

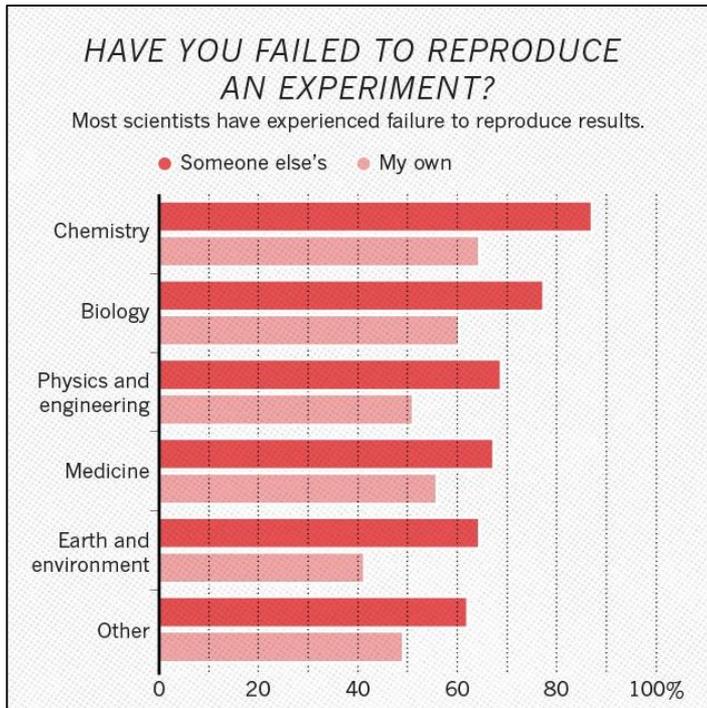
Causes?

Pressure to publish, competition
Insufficient mentoring
Lack of transparency in methods

NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



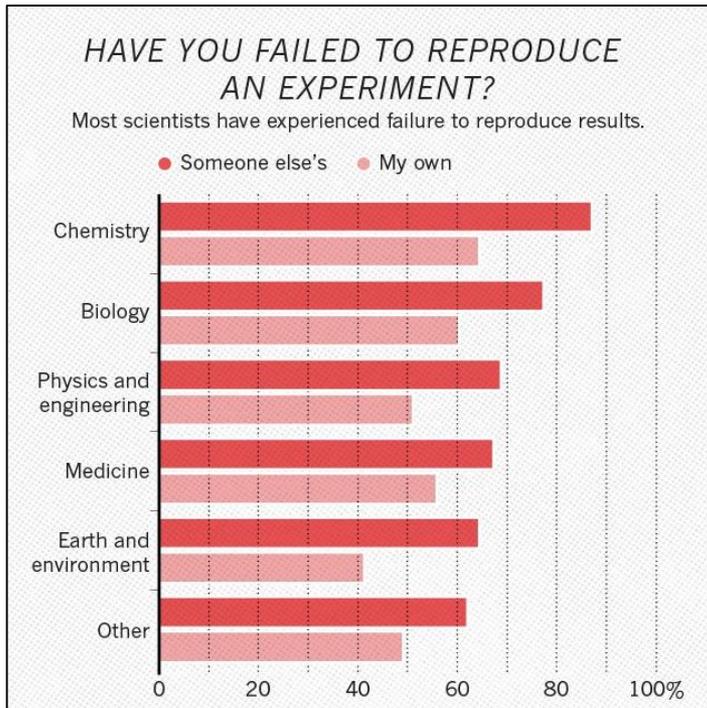
Are we facing a “reproducibility crisis”?



NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



Causes?

Increased awareness ?

Pressure to publish, competition

Insufficient mentoring

Lack of transparency in methods

Hot open questions

What is the role of reviewers?

Shall negative/positive attempts to reproduce be published?

Are we facing a “reproducibility crisis”?



{ Increased awareness ? }

Causes?

- Pressure to publish, competition
- Insufficient mentoring
- Lack of transparency in methods

NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.

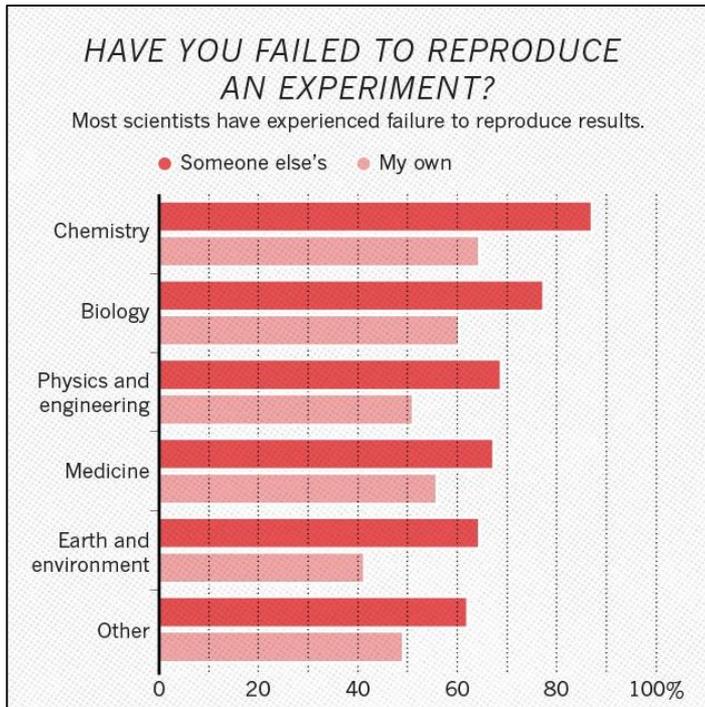
Hot open questions

What is the role of reviewers?

Shall negative/positive attempts to reproduce be published?

Consequences?

Credibility crisis, antivax and climate change deniers



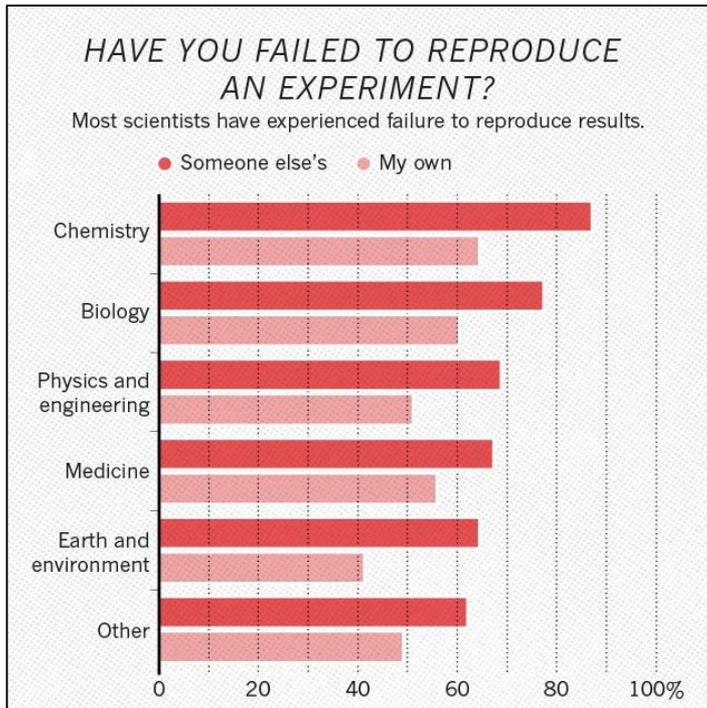
Are we facing a “reproducibility crisis”?



NATURE | NEWS FEATURE

1,500 scientists lift the lid on reproducibility

Survey sheds light on the ‘crisis’ rocking research.



Causes?

Increased awareness ?

Pressure to publish, competition
Insufficient mentoring
Lack of transparency in methods

Hot open questions

What is the role of reviewers?

Shall negative/positive attempts to reproduce be published?

Consequences?

Credibility crisis, antivax and climate change deniers

Solutions?

Results, data, methods, algorithms
should be
available, accessible, reusable

Open Data

Open Source

Open Science

Open Access

Open Notebook

“Make scientific research available, accessible, reusable”

- Improve quality and integrity

Open Science

Open Data Open Source
Open Access Open Notebook

“Make scientific research available, accessible, reusable”

- Improve quality and integrity
- Efficiency in data reuse
- Minimization of duplicate research efforts

Open Science

Open Data Open Source
Open Access Open Notebook

“Make scientific research available, accessible, reusable”

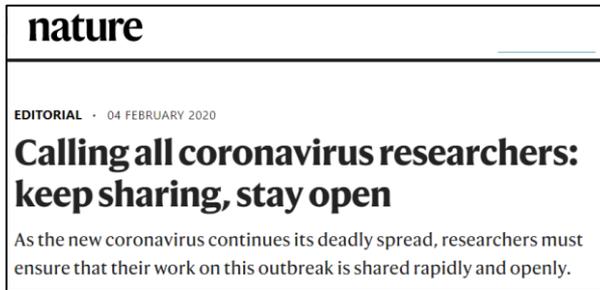
- Improve quality and integrity
- Efficiency in data reuse
- Minimization of duplicate research efforts
- Foster scientific collaborations
- Faster scientific advancement

Open Science

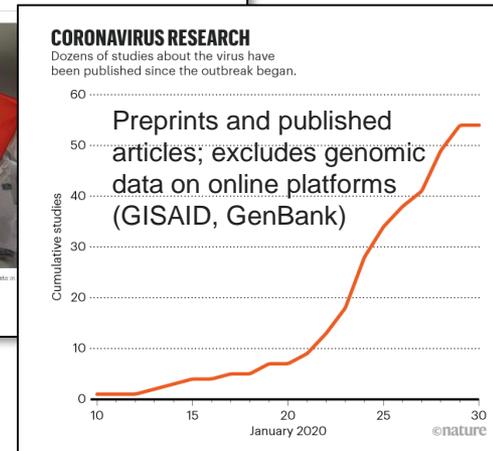
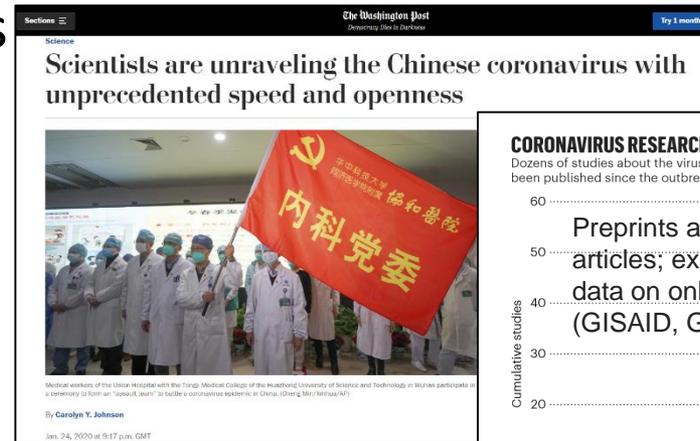
Open Data Open Source
Open Access Open Notebook

“Make scientific research available, accessible, reusable”

- Improve quality and integrity
- Efficiency in data reuse
- Minimization of duplicate research efforts
- Foster scientific collaborations
- Faster scientific advancement



<https://www.nature.com/articles/d41586-020-00307-x>



<https://www.nature.com/articles/d41586-020-00253-8>

Open Science

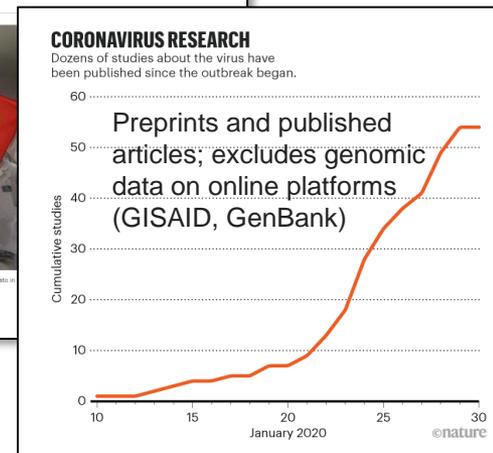
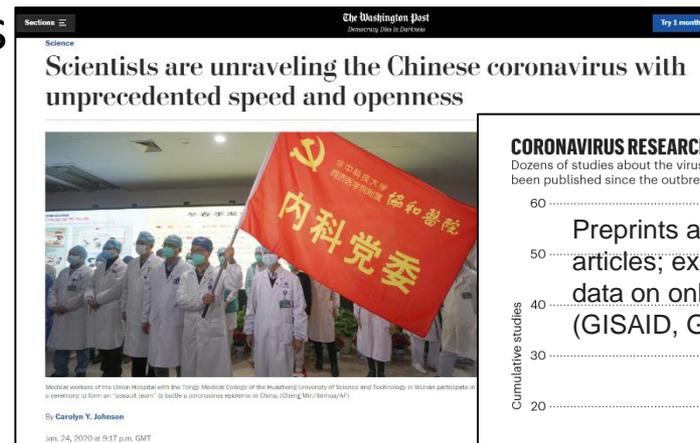
Open Data Open Source
Open Access Open Notebook

“Make scientific research available, accessible, reusable”

- Improve quality and integrity
- Efficiency in data reuse
- Minimization of duplicate research efforts
- Foster scientific collaborations
- Faster scientific advancement



<https://www.nature.com/articles/d41586-020-00307-x>

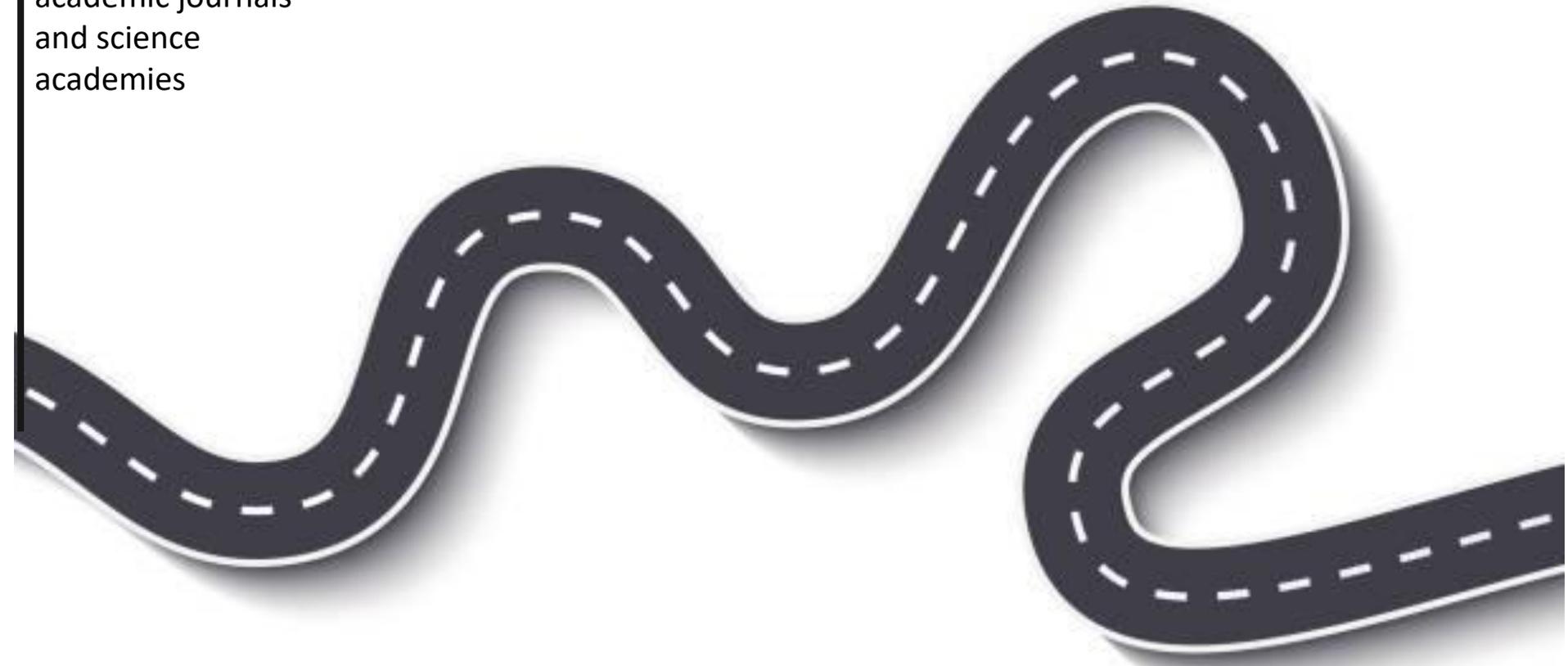


- Boost innovation through knowledge transfer
- Support dissemination, public awareness

<https://www.nature.com/articles/d41586-020-00253-8>

The road towards Open Science

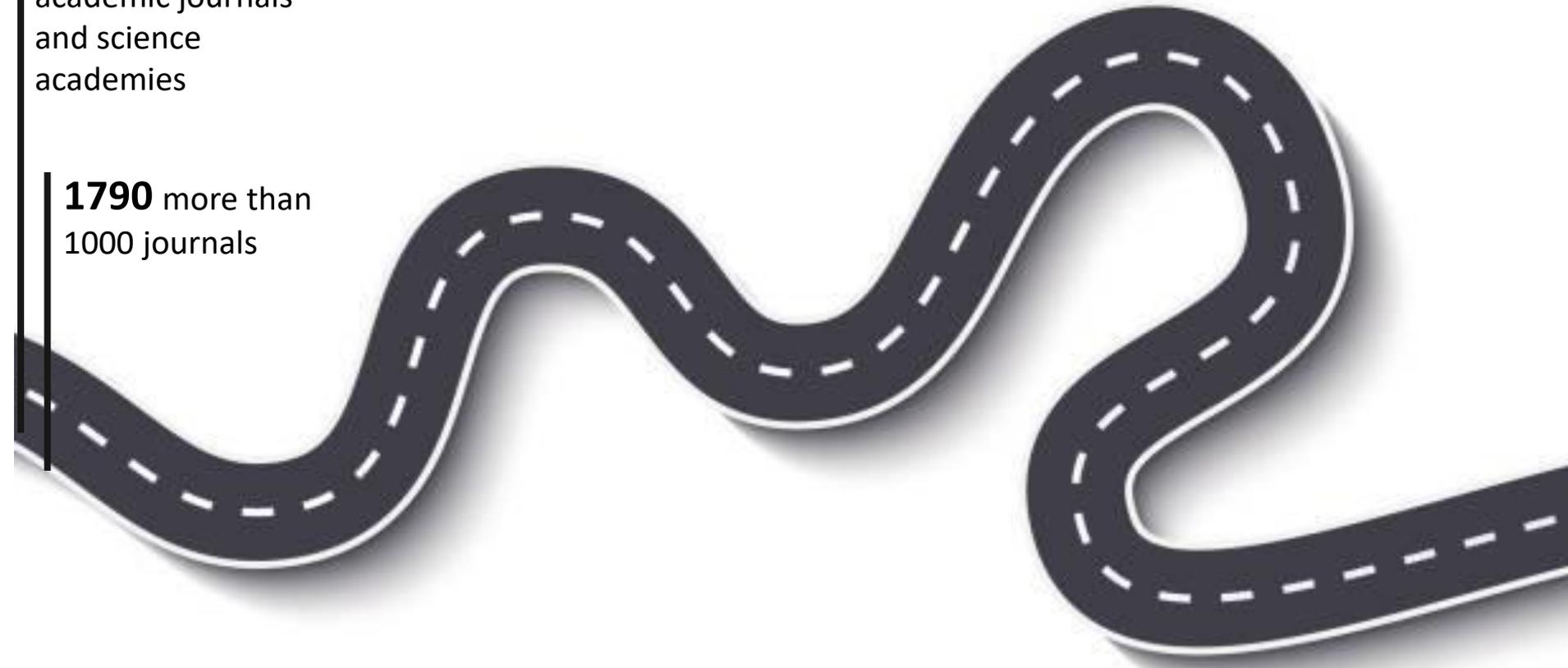
1660 Birth of
academic journals
and science
academies



The road towards Open Science

1660 Birth of
academic journals
and science
academies

1790 more than
1000 journals



The road towards Open Science

1660 Birth of
academic journals
and science
academies

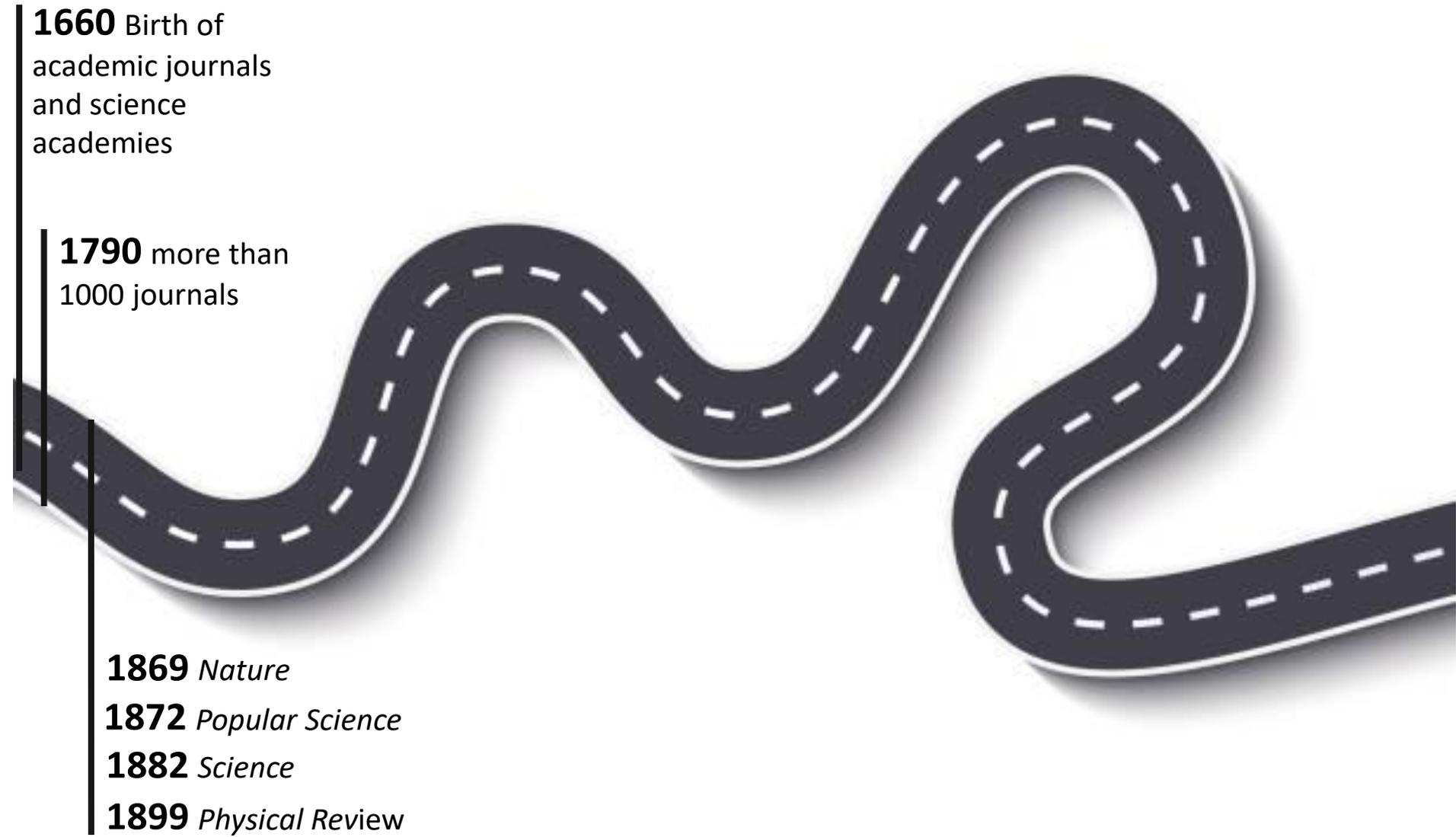
1790 more than
1000 journals

1869 *Nature*

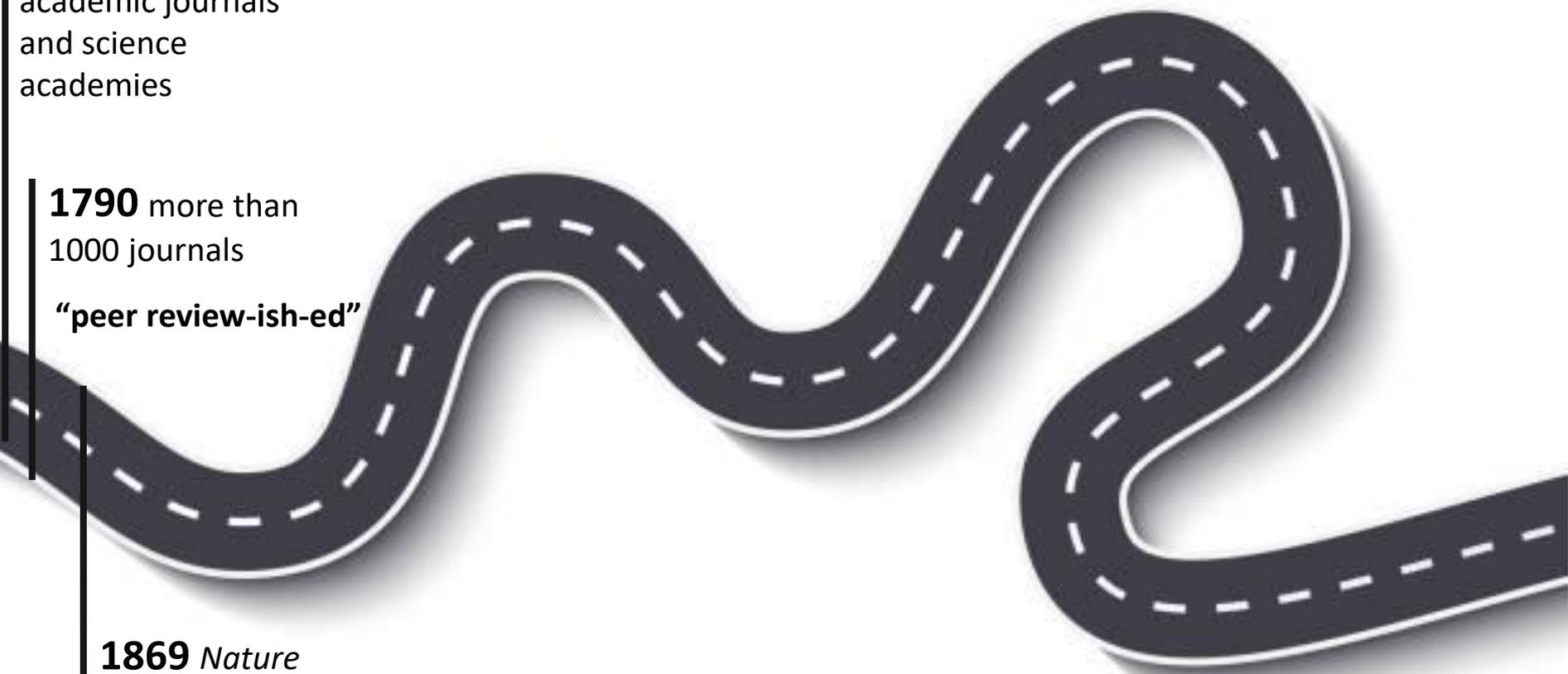
1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



The road towards Open Science



1660 Birth of
academic journals
and science
academies

1790 more than
1000 journals

“peer review-ish-ed”

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*

Peer Review as we know it

Einsten's first contact with peer review (Physical Review, 1935)

Peer Review as we know it

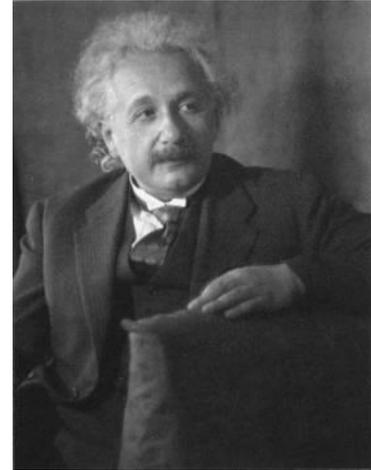
Einsten's first contact with peer review (Physical Review, 1935)

Dear Sir,

We (Mr. Rosen and I) had sent you our manuscript for publication and had not authorized you to show it to specialists before it is printed. I see no reason to address the — in any case erroneous — comments of your anonymous expert. On the basis of this incident I prefer to publish the paper elsewhere.

*Respectfully,
Albert Einstein*

<https://theconversation.com/hate-the-peer-review-process-einstein-did-too-27405>
<https://journals.sagepub.com/doi/10.1177/1075547098019003002>



Peer Review as we know it

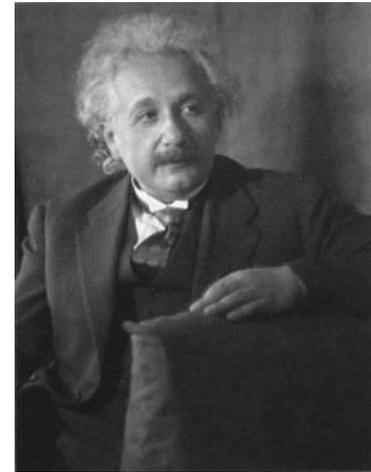
Einsten's first contact with peer review (Physical Review, 1935)

Dear Sir,

We (Mr. Rosen and I) had sent you our manuscript for publication and had not authorized you to show it to specialists before it is printed. I see no reason to address the — in any case erroneous — comments of your anonymous expert. On the basis of this incident I prefer to publish the paper elsewhere.

*Respectfully,
Albert Einstein*

<https://theconversation.com/hate-the-peer-review-process-einstein-did-too-27405>
<https://journals.sagepub.com/doi/10.1177/1075547098019003002>



- Peer review is necessary to ensure scientific rigour, but...
- Open issues: reliability, accuracy, bias, favouritisms, self-interest...
- **How do we improve peer review?**
- Double blind, Transparent peer review, “Self-organized” peer-review?

The road towards Open Science

Print **1990** Online

1660 Birth of academic journals and science academies

1790 more than 1000 journals

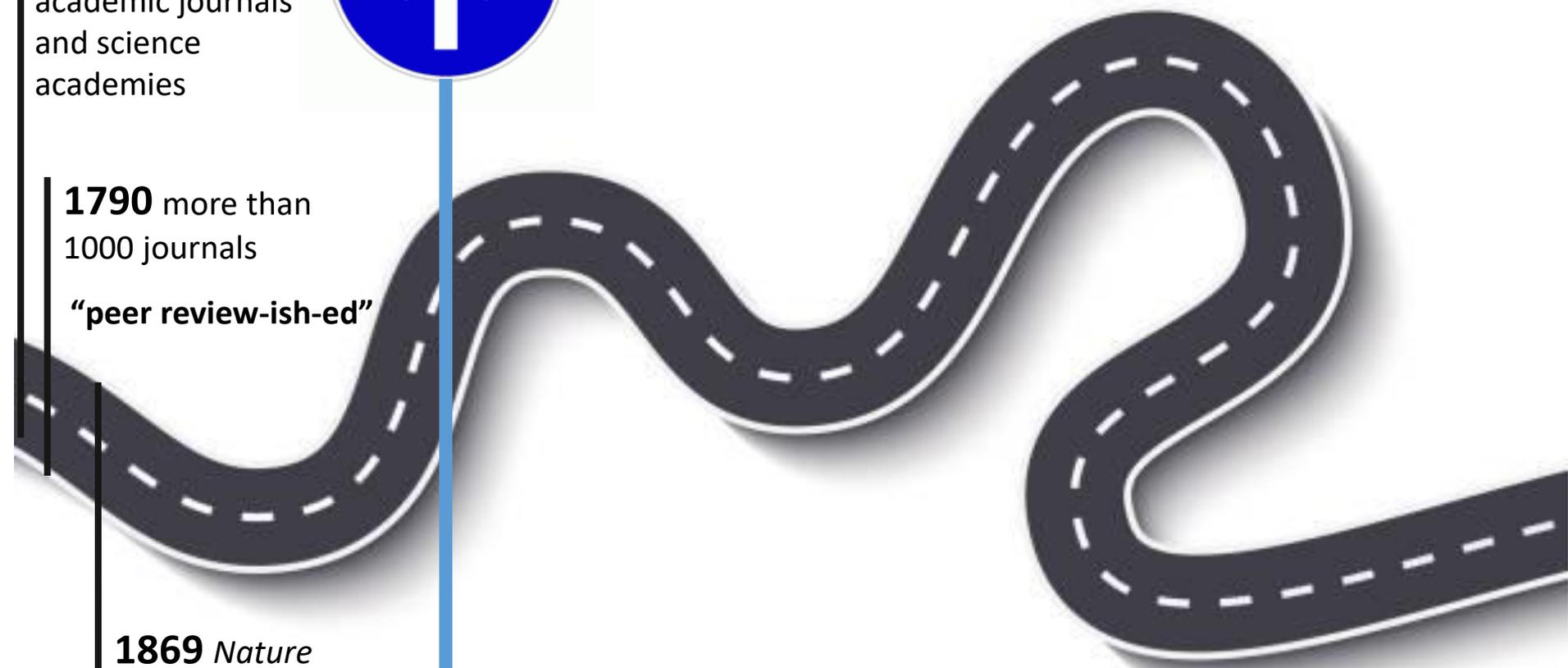
“peer review-ish-ed”

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



The road towards Open Science

Print **1990** Online

1660 Birth of academic journals and science academies

1790 more than 1000 journals

“peer review-ish-ed”

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Print



1990

Online

1660 Birth of academic journals and science academies

1790 more than 1000 journals

“peer review-ish-ed”

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*

1991

arXiv



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Print



1990

Online

1660 Birth of academic journals and science academies

2001



[Freepik](#)

1790 more than 1000 journals

“peer review-ish-ed”

1991

arXiv

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Unrestricted access, use, and reuse.
Copyright grants integrity is preserved.

Print



1990

Online

1660 Birth of academic journals and science academies

2001



2002

Budapest Open Access Initiative

1790 more than 1000 journals

“peer review-ish-ed”

1991

arXiv

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Unrestricted access, use, and reuse.
Copyright grants integrity is preserved.

Print



1990

Online

1660 Birth of academic journals and science academies

2001



2002

Budapest Open Access Initiative

SciRep

PLOS one

1790 more than 1000 journals

“peer review-ish-ed”

1991

arXiv

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Unrestricted access, use, and reuse.
Copyright grants integrity is preserved.

Print



1990

Online

1660 Birth of academic journals and science academies

2001



2002

Budapest Open Access Initiative

2011

Sci Hub



1790 more than 1000 journals

“peer review-ish-ed”

SciRep

PLOS one

1991

arXiv

1869 *Nature*

1872 *Popular Science*

1882 *Science*

1899 *Physical Review*



Increased cost of subscriptions

Publicly funded research should be publicly available

The road towards Open Science

Print

1990

Online

1660 Birth of academic journals and science academies

1790 more than 1000 journals
“peer review-ish-ed”

1869 *Nature*
1872 *Popular Science*
1882 *Science*
1899 *Physical Review*



1991
arXiv

2002
Budapest Open Access Initiative

SciRep

PLOS one

Unrestricted access, use, and reuse.
Copyright grants integrity is preserved.

2011
Sci Hub



2018
PlanS
cOAlitionS
Accelerate the transition to OA

Increased cost of subscriptions
Publicly funded research should be publicly available

cOAlition S and plan S

<https://www.coalition-s.org/>

2018; funding organizations supported by the European Commission and the European Research Council (ERC)

“From 2021 all publications funded by public or private grants must be published in Open Access Journals or made immediately available through Open Access Repositories without embargo.”

cOAlition S and plan S

<https://www.coalition-s.org/>

2018; funding organizations supported by the European Commission and the European Research Council (ERC)

“From 2021 all publications funded by public or private grants must be published in Open Access Journals or made immediately available through Open Access Repositories without embargo.”



Academics

- Authors should retain copyright of their publications
- Publications fee supported by funders and universities (not individuals)

cOAlition S and plan S

<https://www.coalition-s.org/>

2018; funding organizations supported by the European Commission and the European Research Council (ERC)

“From 2021 all publications funded by public or private grants must be published in Open Access Journals or made immediately available through Open Access Repositories without embargo.”



Academics

- Authors should retain copyright of their publications
- Publications fee supported by funders and universities (not individuals)

• Subscription/hybrid $\xrightarrow{t \rightarrow t^*}$ OA

Publishers

- Regulation of OA services (peer review, licenses)
- Transparency of publishing fees, capping

cOAlition S and plan S

<https://www.coalition-s.org/>

2018; funding organizations supported by the European Commission and the European Research Council (ERC)

“From 2021 all publications funded by public or private grants must be published in Open Access Journals or made immediately available through Open Access Repositories without embargo.”



Academics

- Authors should retain copyright of their publications
- Publications fee supported by funders and universities (not individuals)

- Subscription/hybrid $\xrightarrow{t \rightarrow t^*}$ OA

Publishers

- Regulation of OA services (peer review, licenses)
- Transparency of publishing fees, capping

Response:

Academics: OA 2020 Initiative

(academic research network)
“joint statement” (2018):
work together to accelerate
the transition to OA

<https://oa2020.org/>

Publishers:

open negotiations
on “transformative
agreements”

<https://scholarlykitchen.sspnet.org/2019/04/23/transformative-agreements/>



cOAlition S and plan S

<https://www.coalition-s.org/>

2018; funding organizations supported by the European Commission and the European Research Council (ERC)

“From 2021 all publications funded by public or private grants must be published in Open Access Journals or made immediately available through Open Access Repositories without embargo.”



Academics

- Authors should retain copyright of their publications
- Publications fee supported by funders and universities (not individuals)

• Subscription/hybrid $\xrightarrow{t \rightarrow t^*}$ OA

Publishers

- Regulation of OA services (peer review, licenses)
- Transparency of publishing fees, capping

Response:

Academics: OA 2020 Initiative

(academic research network)
“joint statement” (2018):
work together to accelerate
the transition to OA

<https://oa2020.org/>

Publishers:

open negotiations
on “transformative
agreements”

<https://scholarlykitchen.sspnet.org/2019/04/23/transformative-agreements/>



nature physics

Perspective | Open Access | Published: 15 November 2018

Open is not enough

OS needs active effort towards
new research practices.
Reusability must be planned.

<https://www.nature.com/articles/s41567-018-0342-2>

The road towards Open Science

Print

1990

Online

1660 Birth of academic journals and science academies

1790 more than 1000 journals
"peer review-ish-ed"

1869 *Nature*
1872 *Popular Science*
1882 *Science*
1899 *Physical Review*



Increased cost of subscriptions
Publicly funded research should be publicly available

1991
arXiv

2002
Budapest Open Access Initiative

SciRep
PLOS one

Unrestricted access, use, and reuse.
Copyright grants integrity is preserved.

2011
Sci Hub



2018
PlanS
cOAlitionS
Accelerate the transition to OA

2019

UNESCO:
define a global framework for OS by 2021

OS is key to achieve the Sustainable Development Goals

Open Access publishing

Open Access publishing

Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors



Open Access publishing

Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors



Gold OA: peer reviewed journals

- freely, permanently, immediately accessible for everyone under CC-BY (as for PlanS)
- Copyright is YOURS (not the journal's)

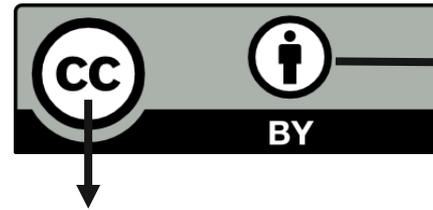
Open Access publishing: more than just “free”

Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors

Gold OA: peer reviewed journals

- freely, permanently, immediately accessible for everyone under CC-BY (as for PlanS)
- Copyright is YOURS (not the journal’s)



Author(s) must be attributed and changes indicated.

Content can be copied, redistributed and adapted for **any** purpose: your thesis, but also a book...

Open Access publishing: more than just “free”

Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors

Gold OA: peer reviewed journals

- freely, permanently, immediately accessible for everyone under CC-BY (as for PlanS)
- Copyright is YOURS (not the journal’s)

Higher Visibility

- Official indexing services (Scopus/PubMed..)
- Metadata in the XML file
- Links to main-stream press



Author(s) must be attributed and changes indicated.

Content can be copied, redistributed and adapted for **any** purpose: your thesis, but also a book...

Open Access publishing: more than just “free”

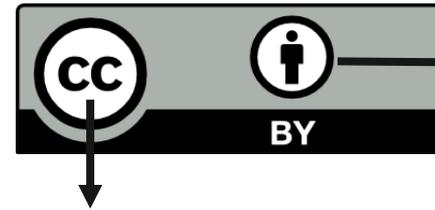
Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors



Gold OA: peer reviewed journals

- freely, permanently, immediately accessible for everyone under CC-BY (as for PlanS)
- Copyright is YOURS (not the journal's)



Author(s) must be attributed and changes indicated.

Content can be copied, redistributed and adapted for **any** purpose: your thesis, but also a book...

Higher Visibility

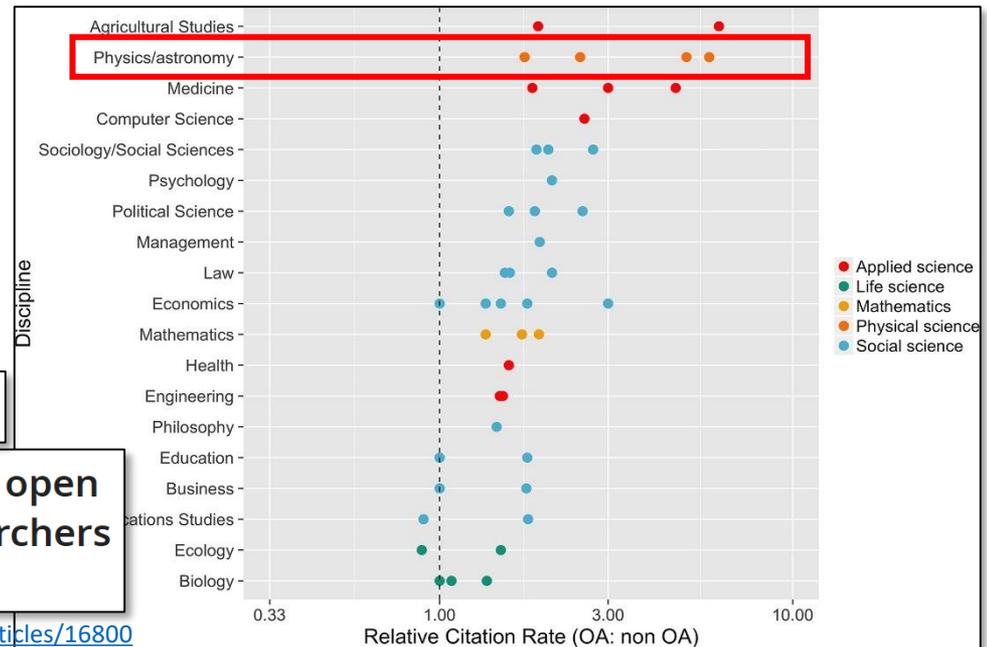
- Official indexing services (Scopus/PubMed..)
- Metadata in the XML file
- Links to main-stream press

Advantage over subscription: more citations and media coverage



Point of View: How open science helps researchers succeed

<https://elifesciences.org/articles/16800>



Open Access publishing: more than just “free”

Green OA: self archiving, no peer-review

- Fast dissemination
- Record - establishing who did the work and when
- Potential community feedback
- “No” cost for authors

Gold OA: peer reviewed journals

- freely, permanently, immediately accessible for everyone under CC-BY (as for PlanS)
- Copyright is YOURS (not the journal’s)

Higher Visibility

- Official indexing services (Scopus/PubMed..)
- Metadata in the XML file
- Links to main-stream press

Advantage over subscription: more citations and media coverage

Must pay Article Pressing Charges (APC)

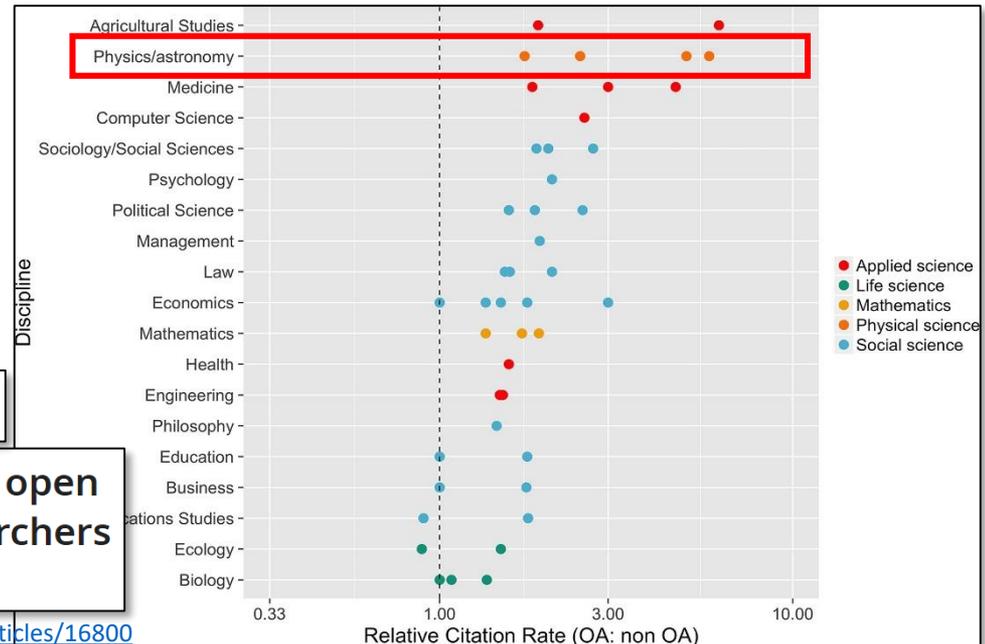
Point of View: How open science helps researchers succeed

<https://elifesciences.org/articles/16800>



Author(s) must be attributed and changes indicated.

Content can be copied, redistributed and adapted for **any** purpose: your thesis, but also a book...



The cost of publishing

eLife: OA non-profit journal supported by Wellcome Trust, Max Planck Society and Howard Hughes Medical Institute.

Setting a fee for publication

eLife announces a fee for publication of \$2,500 to take effect on January 1, 2017.

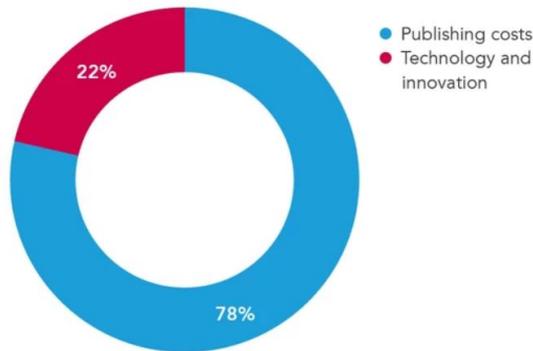
The cost of publishing

eLife: OA non-profit journal supported by Wellcome Trust, Max Planck Society and Howard Hughes Medical Institute.

Setting a fee for publication

eLife announces a fee for publication of \$2,500 to take effect on January 1, 2017.

Total expenditure



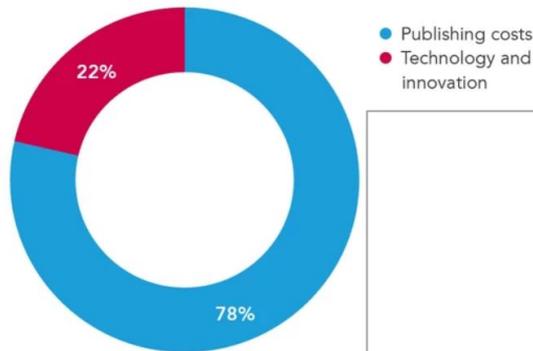
The cost of publishing

eLife: OA non-profit journal supported by Wellcome Trust, Max Planck Society and Howard Hughes Medical Institute.

Setting a fee for publication

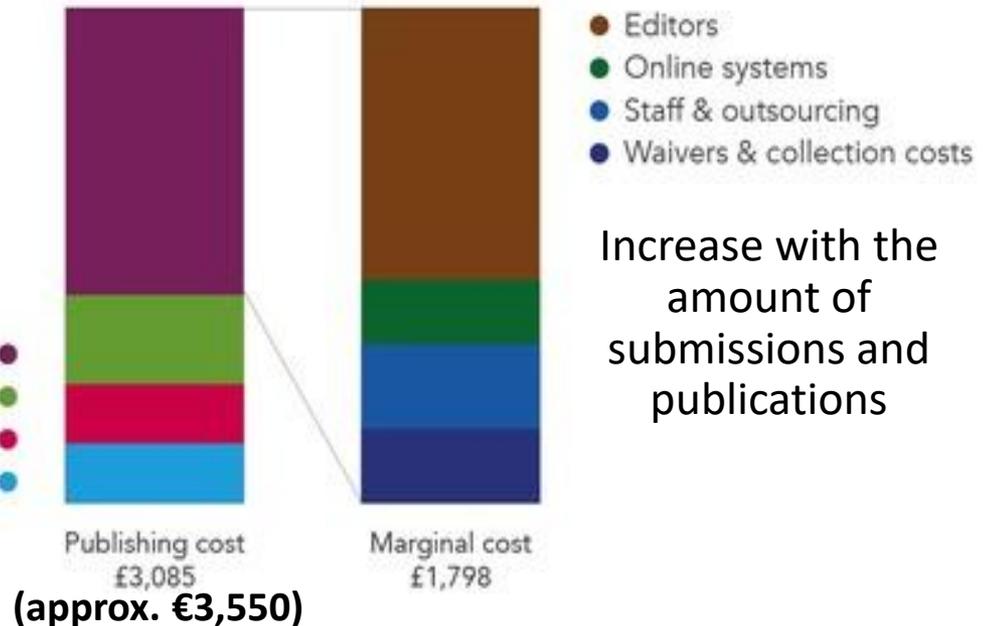
eLife announces a fee for publication of \$2,500 to take effect on January 1, 2017.

Total expenditure



Fixed costs
£1,287

Marginal cost
Article processing
Features
Marketing



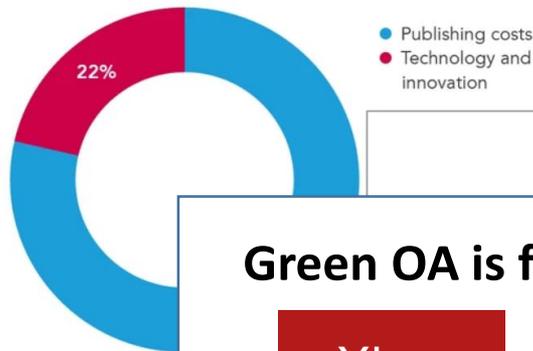
The cost of publishing

eLife: OA non-profit journal supported by Wellcome Trust, Max Planck Society and Howard Hughes Medical Institute.

Setting a fee for publication

eLife announces a fee for publication of \$2,500 to take effect on January 1, 2017.

Total expenditure



Green OA is free but not inexpensive!

arXiv.org

has running costs sustained by Cornell University, Simons Foundation, member institutions, donations, and grants.

<https://arxiv.org/about/reports-financials>

nature

Subscribe

NEWS · 13 FEBRUARY 2020

Popular preprint servers face closure because of money troubles

Repositories like INA-Rxiv and IndiaRxiv boost regional science, but finding cash to run them is proving difficult.

<https://elifesciences.org/inside-elifeb6365b76/setting-a-fee-for-publication>

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.

AND

Marginal costs increase with **submission and publication** volume

<https://www.sciencemag.org/news/2020/01/eight-publishers-volunteer-pricing-info-pilot-study>

<https://www.informationpower.co.uk/recommendations-for-transparent-communication-of-open-access-prices-and-services/>

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.



AND

Marginal costs increase with **submission and publication** volume

<https://www.sciencemag.org/news/2020/01/eight-publishers-volunteer-pricing-info-pilot-study>

<https://www.informationpower.co.uk/recommendations-for-transparent-communication-of-open-access-prices-and-services/>

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.



AND

Marginal costs increase with **submission and publication** volume



The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.

AND

Marginal costs increase with **submission and publication** volume



Self-sustained, selective OA is more expensive

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.

AND

Marginal costs increase with **submission and publication** volume



Self-sustained, selective OA is more expensive

The example of the Nature family

Nature

Around 1000 papers/year

Nature research journals

eg NPhysics 373 papers in 2019

Nature Communications

5,800 papers in 2019

Communications journals

(too early to tell)

Scientific reports

20,400 papers in 2019

Impact, selectivity

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.

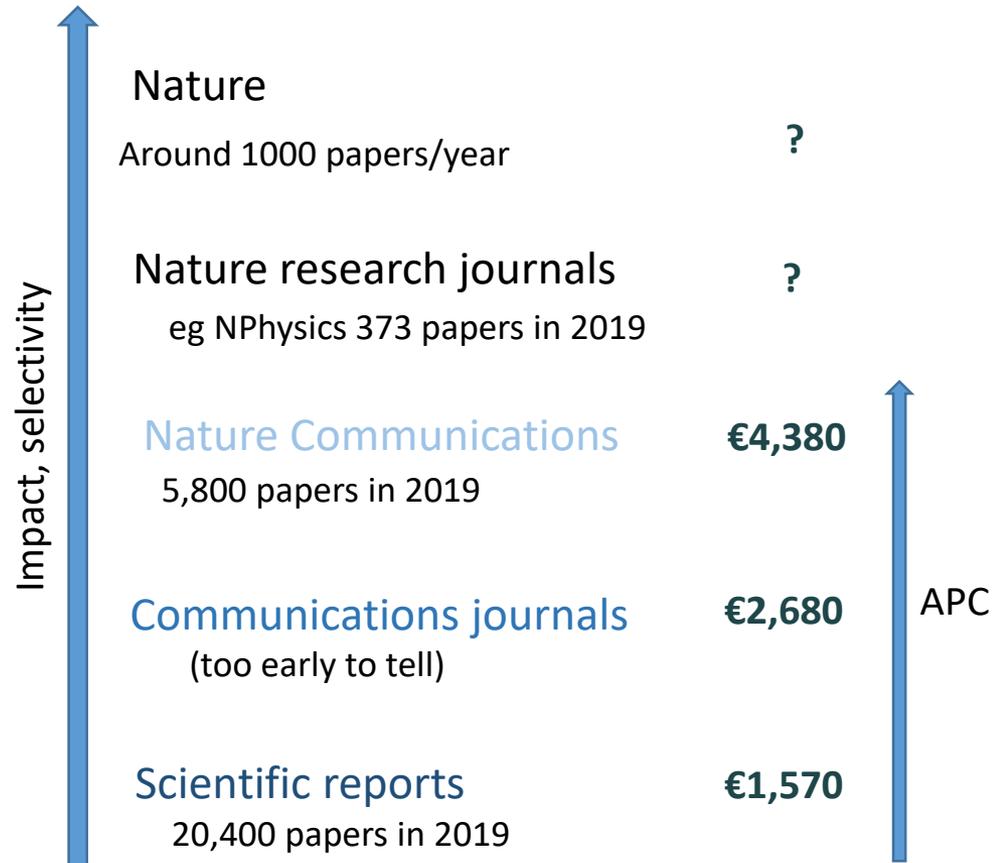
AND

Marginal costs increase with **submission and publication** volume



Self-sustained, selective OA is more expensive

The example of the Nature family



<https://www.sciencemag.org/news/2020/01/eight-publishers-volunteer-pricing-info-pilot-study>

<https://www.informationpower.co.uk/recommendations-for-transparent-communication-of-open-access-prices-and-services/>

The cost of open access vs selectivity

Open Access journals should be fully supported by APC paid by authors of **accepted** papers.

AND

Marginal costs increase with **submission and publication** volume



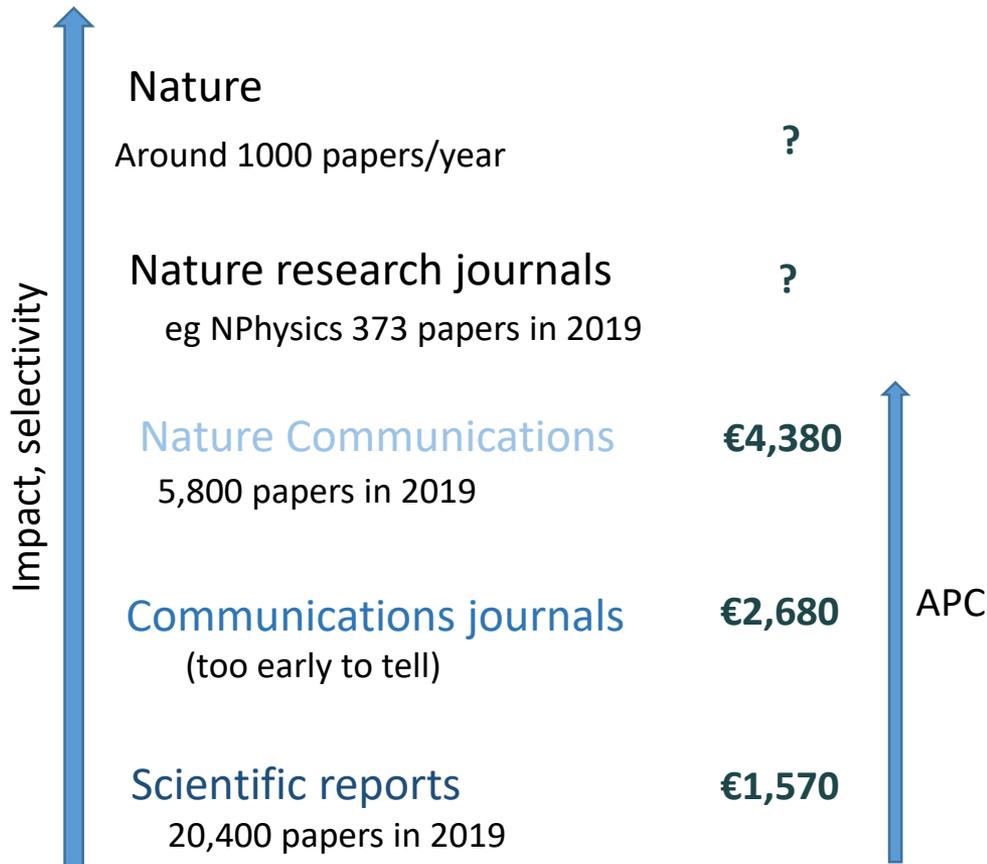
How can we lower APCs?

- Other company's revenues
- External funding
- **PlanS**: Transparency and capping
- *Pay for submitting?*
- *Do we need selective journals?*
- *Should we change the way research is assessed?*

<https://sfedora.org/>

Self-sustained, selective OA is more expensive

The example of the Nature family



<https://www.sciencemag.org/news/2020/01/eight-publishers-volunteer-pricing-info-pilot-study>

<https://www.informationpower.co.uk/recommendations-for-transparent-communication-of-open-access-prices-and-services/>

Good news to finish with!

Subscription journals *are* expensive: how much is one paper?

1,000 euros?

5,000 euros?

10,000 euros?

Good news to finish with!

Subscription journals *are* expensive: how much is one paper?

An analysis by the Max Planck Digital Library in 2014 showed that

- *Total journal subscriptions: €7.6 billion*
- *Total articles published : 1.5 million*
- *(as listed on Web of Science)*
- *Cost per article (rounded): **€5,000***

Disrupting the subscription journals' business model for the necessary large-scale transformation to open access

A Max Planck Digital Library Open Access Policy White Paper

https://pure.mpg.de/pubman/faces/ViewItemOverviewPage.jsp?itemId=item_2148961

Good news to finish with!

Subscription journals *are* expensive: how much is one paper?

An analysis by the Max Planck Digital Library in 2014 showed that

- *Total journal subscriptions: €7.6 billion*
- *Total articles published : 1.5 million*
- *(as listed on Web of Science)*
- *Cost per article (rounded): **€5,000***

PlanS: funds should be moved from subscriptions to support APCs

-> OA agreements at national/institutional levels

Disrupting the subscription journals' business model for the necessary large-scale transformation to open access

A Max Planck Digital Library Open Access Policy White Paper

https://pure.mpg.de/pubman/faces/ViewItemOverviewPage.jsp?itemId=item_2148961

Open access agreement for Germany

If you are a corresponding author* affiliated with a German university or research institution, you are entitled to publish open access in our journals with fees covered by the German DEAL agreement.

<https://www.springernature.com/gp/open-research/institutional-agreements/oaforgermany>

Good news to finish with!

Subscription journals *are* expensive: how much is one paper?

An analysis by the Max Planck Digital Library in 2014 showed that

- *Total journal subscriptions: €7.6 billion*
- *Total articles published : 1.5 million*
- *(as listed on Web of Science)*
- *Cost per article (rounded): **€5,000***

PlanS: funds should be moved from subscriptions to support APCs

-> OA agreements at national/institutional levels

In the meantime: waivers!

Full/partial automatic waiver for world's lowest income countries as defined by the World Bank

But anyone can ask for waivers (apcwaivers@springernature.com) , or for funding advices (<http://www.springernature.com/gp/open-research/funding>)

Disrupting the subscription journals' business model for the necessary large-scale transformation to open access

A Max Planck Digital Library Open Access Policy White Paper

https://pure.mpg.de/pubman/faces/ViewItemOverviewPage.jsp?itemId=item_2148961

Open access agreement for Germany

If you are a corresponding author* affiliated with a German university or research institution, you are entitled to publish open access in our journals with fees covered by the German DEAL agreement.

<https://www.springernature.com/gp/open-research/institutional-agreements/oaforgermany>

Good news to finish with?

Subscription journals are expensive: how much is one paper?

From the Impact blog of the London School of Economics:

Jefferson
Pooley

February 21st,
2020

Read-and-Publish Open Access deals are heightening global inequalities in access to publication.

OA deals as for PlanS are not sustainable for developing countries, waivers are not enough to support all publications → PlanS is benefitting only Western countries

<https://blogs.lse.ac.uk/impactofsocialsciences/2020/02/21/read-and-publish-open-access-deals-are-heightening-global-inequalities-in-access-to-publication/>

But anyone can ask for waivers (apcwaivers@springernature.com) , or for funding advices (<http://www.springernature.com/gp/open-research/funding>)

Keep reading, keep thinking, keep discussing

Is open access widening the gap between rich and poor countries?

What is the best way to evaluate a researcher's career?

Shall negative/positive attempts to reproduce be published?

Is CC-BY the best license or it would be better to reserve some rights?

Are OA deals sustainable for developing countries?

How can we improve peer review?

What is responsibility of reviewers and what is not?

Does impact factor matter?

Are we facing a “reproducibility crisis”?

Thank you for listening!

ariannabottinelli@gmail.com

@ArihBoh