



ELSEVIER

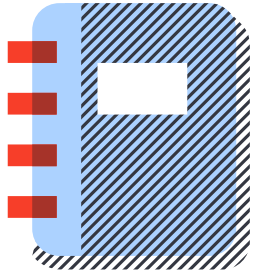
Open Science & Open Access

Presented by Pete Lewis, Associate Publisher,

Email: p.lewis1@elsevier.com

19th May, 2023





Over **2,800** journals & serials



Over **19 million** articles and chapters, with **1.6 billion** consumed by researchers



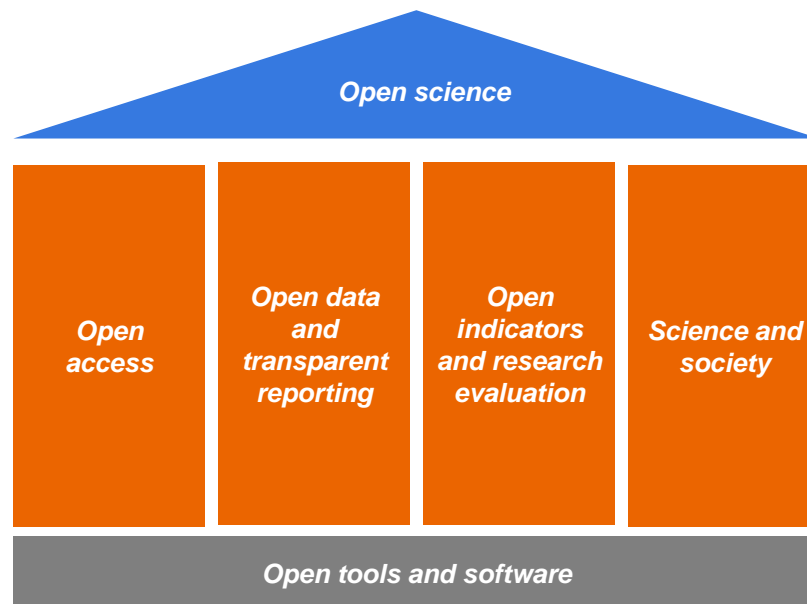
Over **600,000** articles published in **2022** and made discoverable through search engine marketing.

What is Open Science?

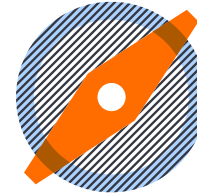
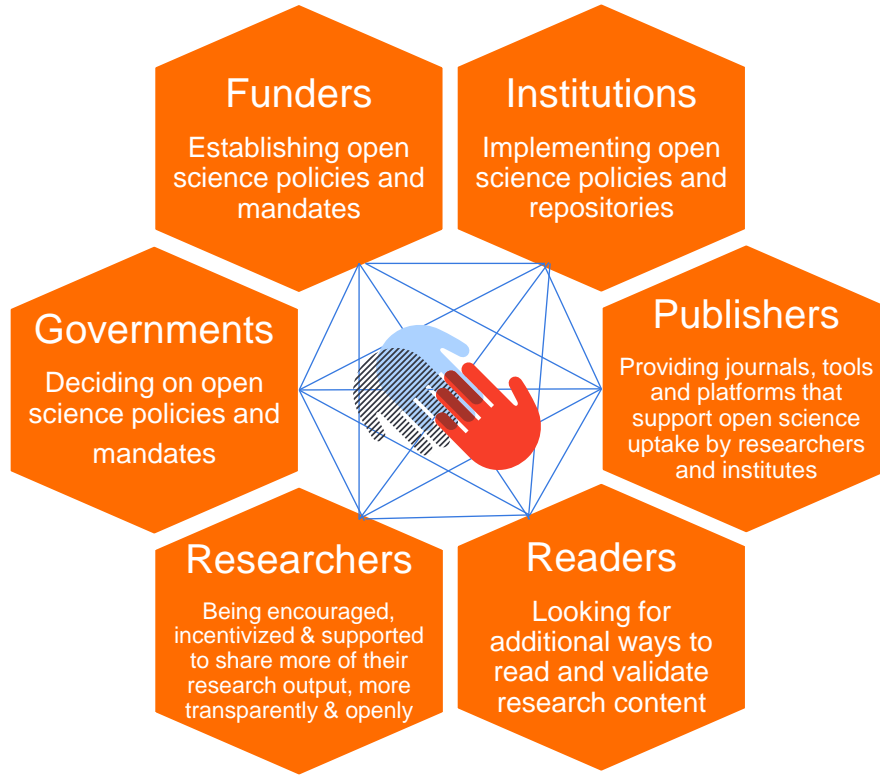
Open science describes a way of working that is more **inclusive**, **collaborative** and **transparent**.

Elsevier partners with the research community to empower open science.

We believe open science can benefit research and society and drive research performance.



Open Science Enablers



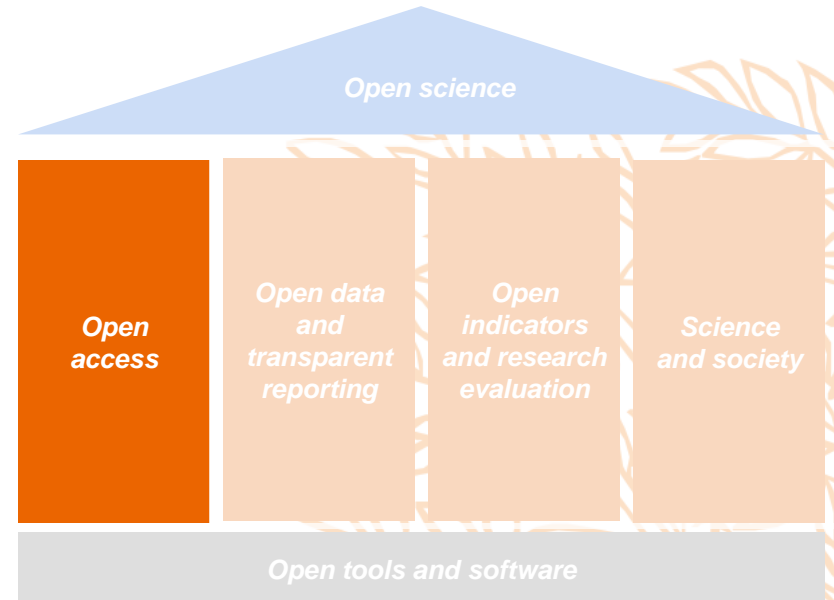
Open science is facilitated through:

- Policies and mandates (plus compliance monitoring)
- Funding
- Education and guidance
- Journals, tools and platforms
- Incentives and evaluation
- Culture and values

Stakeholders must **collaborate and align** to nurture a research and publication environment that nurtures open science.



Open Access



What is Open Access?

- **Free and permanent access** to scholarly research for everyone.
- Elsevier primarily offers the **gold and green open access** routes.

Gold open access

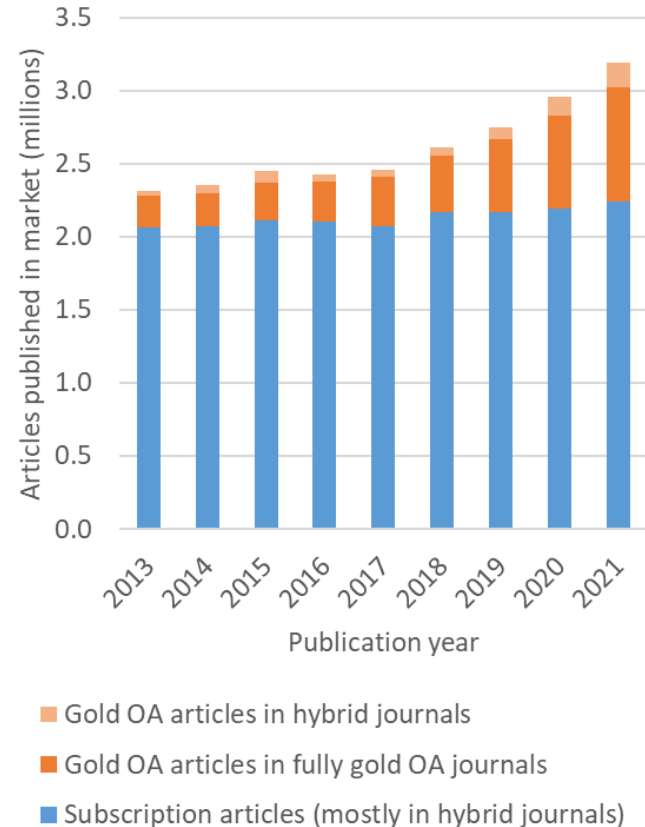
- ✓ **Final version** of an article is **immediately accessible** to everyone
- ✓ The article is made available to readers under a Creative Commons end user license
- ✓ Cost of publishing is recovered upfront
 - Typically as an Article Processing Charge (APC)

Green open access

- ✓ A **version of a subscription article** is made freely available
- ✓ Relies on the subscription model to continue to operate
 - Usually after an **embargo period**
 - Normally a draft copy of the article

The Open Access Global Landscape oday

- Over 11 million documents are now tagged gold, hybrid or bronze open access in Scopus.
- Increasingly more mandates to publish Open Access from funding bodies: E.g. OSTP in the US & Horizon Europe.



Elsevier's Approach to Open Access

- **Elsevier is committed to open access!** We are **one of the fastest-growing** open access publishers worldwide.
- **All 2,800 of our journals enable open access** publishing, including **more than 700 fully open access** journals.
- Elsevier published over 150,000 Open Access articles in 2022, a year on year increase of over 26% **Open Access Model.**
- We have converted **over 160** of our subscription based journals to the Gold Open Access Model.
- We **support over 2,000 institutions globally** to publish open access through **transformative agreements.**

Open Access Agreements

Elsevier has reached open access agreements with the following institutions. Click on a link below to find out more information.

For Information on Funding Arrangements, please visit this page.

Agreements (A-Z)

- Austria
- Australia & New Zealand - CAUL Consortium
- Australia - Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Bulgaria - Bulgarian National Consortium
- Canada - Canadian Research Knowledge Network (CRKN)
- Colombia - Colombia Consortium
- Denmark - Royal Danish Library National License Consortium
- Finland - FinELib Consortium
- France - Couperin Consortium
- Germany - Brandenburg University of Technology
- Greece - HEAL Consortium
- Hungary - EISZ Consortium
- Ireland - Consortium of Irish Higher Education Institutions
- Italy - CRUI Consortium
- Japan - Japan Alliance of University Library Consortia for E-Resources (JUSTICE)
- Netherlands - VSNU
- Norway - Unit Consortium
- Poland - Polish Consortium
- Portugal (FCT)
- Qatar - Qatar National Library and Qatar University
- Saudi Arabia - King Abdullah University of Science and Technology (KAUST)
- Singapore - SAUL Consortium
- Spain - CRUE-CSIC
- Slovenia - CTK Consortium
- South Africa - SANLIC Consortium
- South Korea - National Research Council of Science & Technology (NST)
- Sweden - BIBSAM
- Switzerland - CERN
- Switzerland - Swiss Universities
- Taiwan - CONCERT Consortium
- UK - JISC
- USA - California State University (CSU)
- USA - Carnegie Mellon University (CMU)
- USA - Cold Spring Harbor Laboratory
- USA - Department of Energy Laboratories
- USA - University of Kansas
- USA - State University of New York (SUNY)
- USA - Texas Christian University (TCU)
- USA - Texas Library Coalition for United Action (TLCUA)
- USA - Tulane University
- USA - University of California (UC)
- USA - University of Florida (UF)
- USA - University of Idaho
- USA - University of Michigan
- USA - Washington University in St. Louis

A List of Elsevier's Open Agreements

Open access and subscription articles are priced separately

This fundamental principle is enshrined in our strict no double dipping policy.

Open access (author pays)

Elsevier sets APC prices based on the following criteria which are applied to **open access articles only**:

- Journal quality
- Editor/Production costs
- Competitive considerations
- Market conditions
- Other revenue streams associated with the journal



Gold open access

Individuals cover publication costs to **broadcast** their own article to the rest of the world.

Subscription (reader pays)

- When calculating subscription prices, we take into account **subscription articles only**.
- **Subscription prices are adjusted annually**, and reflect subscription article volume development, in addition to other factors including developments in journal quality, journal usage, competitive considerations and market conditions.



Subscription model

Readers pay to **receive access** to research content published around the world.

The Future of Open Access

North America

USA has typically prioritized the subscription route and making manuscripts available after an embargo period. It is now seeing a period of change in relation to its Public Access guidance towards immediate access.

Europe

Coalition S, while a globally coordinated initiative, is prominent in Europe. It aligns funding bodies around principles and approaches to make funded research openly accessible immediately upon publication. Europe has a focus on pay to publish models, supported by open access agreements with publishers



South America

Much of Latin America supports the use of open access publication platforms subsidized by institutions and individual volunteer work.

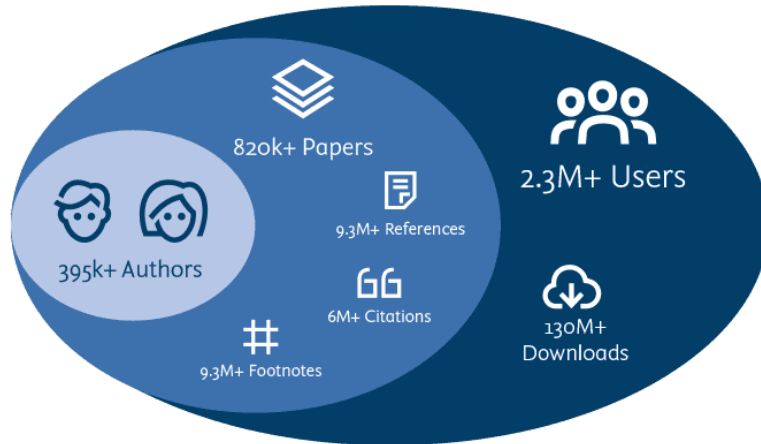
Asia

Some Asian countries are starting to consider the topic, with variations in focus along the open science spectrum. China is known for its preference for the subscription model but has shown interest in open science policies and open access publishing.

The Social Science Research Network: Elsevier's Pre-Print Platform



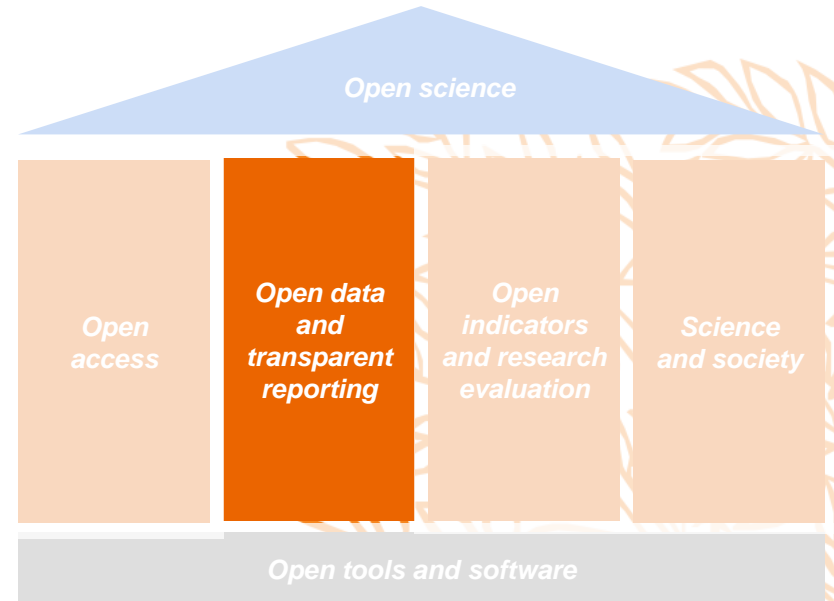
SSRN at a glance:



- Elsevier's preprint platform, **SSRN**, provides access to write-ups of early-stage research prior to peer review.
- SSRN is devoted to the rapid worldwide dissemination of research and is composed of a number of specialized research networks.
- SSRN's eLibrary provides over 820,000 research papers from nearly 400,000 authors.



Open Data and Transparent Reporting

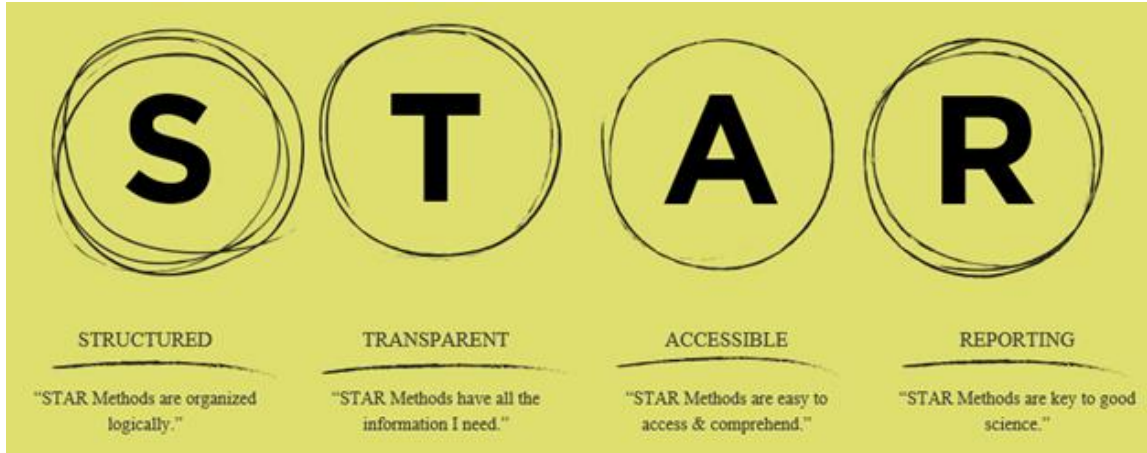


Why open data and transparent reporting matters

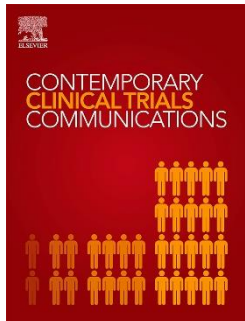


- Reproducibility is vital and underpins trust in science. Transparency in how research was undertaken and the results obtained is prerequisite for reproducibility.
- Stakeholders including funders, institutions, publishers and researchers must collaborate and align to build a positive research culture that **rewards and integrates reproducibility** practices.
- At Elsevier we seek to nurture reproducibility by:
 - Encouraging **rigorous and transparent methods** and protocols
 - Placing emphasis on **research questions and methodology**
 - Encouraging **open research data** sharing
 - **Validating results** pre-publication
 - Supporting **transparency statements**

Encouraging rigorous and transparent methods and protocols



Cell Press' STAR Methods encourage: **structured, transparent, accessible, reporting of methods**; key features rolled out to >1,500 journals



Journals dedicated to methods transparency

◀ Supports AllTrials which calls for all clinical trials to be registered with full methods and results summary.



STAR Protocols

Encouraging open research data sharing



Research Elements journal suite for diverse data output: OA, peer reviewed & citeable, creating incentives & providing key context, multidisciplinary supporting discovery across fields



Easy to deploy structured **platforms to share research data** e.g., Mendeley Data

Many journals have a research data policy enabled.

~1,200 journals require a link to research data or data availability statement



Validating results pre-publication



New submissions are **screened automatically for textual similarity.**




Plagiarism

Duplicate Submission

{headtcentre}

humboldt-elsevier
advanced data & text centre

Proof[✓]fig

 Dr. Figures



Piloting potential AI solutions to detect image manipulation (with humans in command).

Developed **image integrity guidelines** as part of STM Association Working Group on Image Alterations and Duplications

Interested in Becoming an Editor?

It is an important and rewarding job. Keeps one informed, knowledgeable, visible in the community.

— Editor in mathematics

Elsevier Editor Roles:

- **Editor-in-Chief:** Leadership strategic lead, desk & final decisions, prior experience required.
- **Senior/Executive Editor, Section Editor, Associate Editor:** Assists EiC by overseeing peer review, sourcing reviewers, attending meetings, advising on journal strategy.
- **Guest Editor:** Usually a temporary role. Invites content/and leads a special issue on a topic of interest to journal. A good entry role.
- **Editorial Board Member:** Reviews manuscripts, promotes the journal, advises on journal strategy. A good starting point for engaging with an editor community.
- **In-House Editors:** Employed by Elsevier to work on [Cell Press](#) and [The Lancet](#). Current openings and more information is available [here](#).

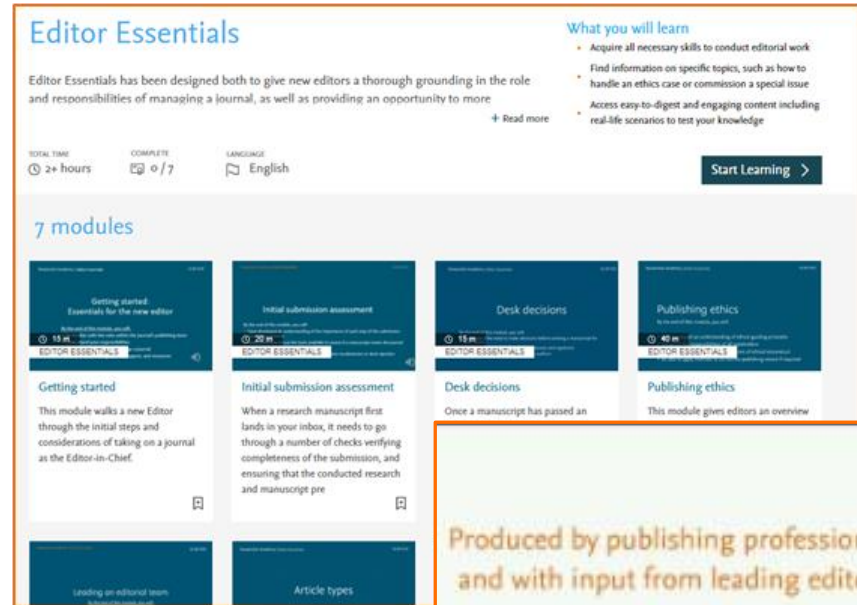
Read about Editor Experiences on [our dedicated Editors' Update blog](#). As you will see, there is a wide range of backgrounds, personalities and cultures which make up our editorial teams!

Editor Criteria:

- **Prior involvement with the journal:** E.g. Editorial Board Member, Guest Editor, or active reviewer.
- **Sufficient time to dedicate to the role:** Editors must be responsive to authors & reviewers. Workload varies according to journal and role. Support from your institution is encouraged.
- **Willingness to Promote the Journal:** Must attend editor meetings and contribute feedback on journal performance. Editors are often recruited to expand a journal's reach in particular geographic areas.
- **An Established Network:** Editors will use their networks to invite reviewers and authors to the journal, in addition to Elsevier's database.
- **Subject Expertise:** Editors are hired with expertise in areas that the journal receives a large number of submissions on.

Editor Essentials

- Designed to give **new editors** a thorough **grounding in the editorial role**, as well as providing an opportunity for more experienced editors to **refresh their knowledge**.
- Developed and delivered by **publishing professionals** and with **input from leading editors**.
- Covers a **comprehensive range of topics** spanning the breadth of editorial work.
- Each module is **self-contained** and most contain **interactive Q&A sections** describing real-life scenarios.



The screenshot displays the 'Editor Essentials' course interface. At the top, it shows the course title 'Editor Essentials' and a 'What you will learn' section with three bullet points: 'Acquire all necessary skills to conduct editorial work', 'Find information on specific topics, such as how to handle an ethics case or commission a special issue', and 'Access easy-to-digest and engaging content including real-life scenarios to test your knowledge'. Below this, there are statistics for 'TOTAL TIME' (2+ hours), 'COMPLETE' (0/7), and 'LANGUAGE' (English), along with a 'Start Learning' button. The main content area is titled '7 modules' and features a grid of module cards. The visible cards include: 'Getting started: Essentials for the new editor' (15 m), 'Initial submission assessment' (20 m), 'Desk decisions' (15 m), and 'Publishing ethics' (40 m). Each card provides a brief description of the module's content. A large text box at the bottom right of the interface states: 'Produced by publishing professionals and with input from leading editors'.

<https://researcheracademy.elsevier.com/editor-essentials/editor-essentials>

Reviewer Hub



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About Elsevier

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Services

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Elsevier for Reviewers

Welcome to the Reviewer Hub – your source of information, guidance and support for reviewing with Elsevier

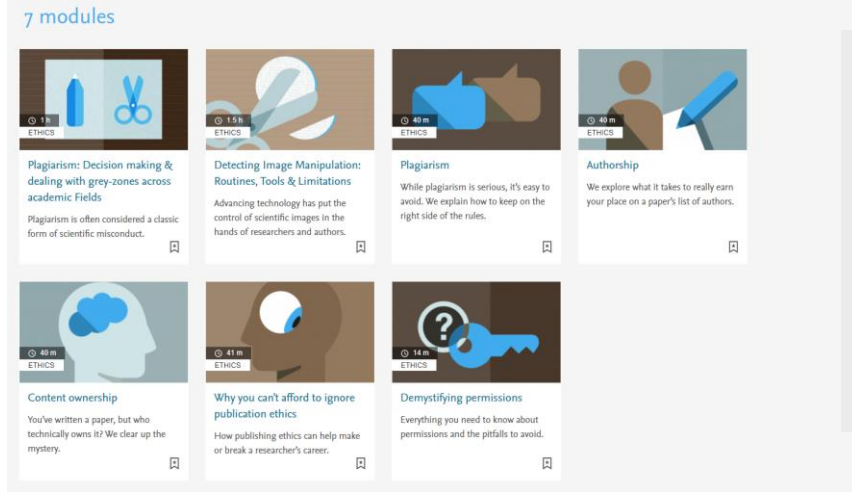
Volunteer and organize your reviews, claim certificates and activate your complimentary access

Sign-in now >

- <https://www.elsevier.com/en-gb/reviewers>

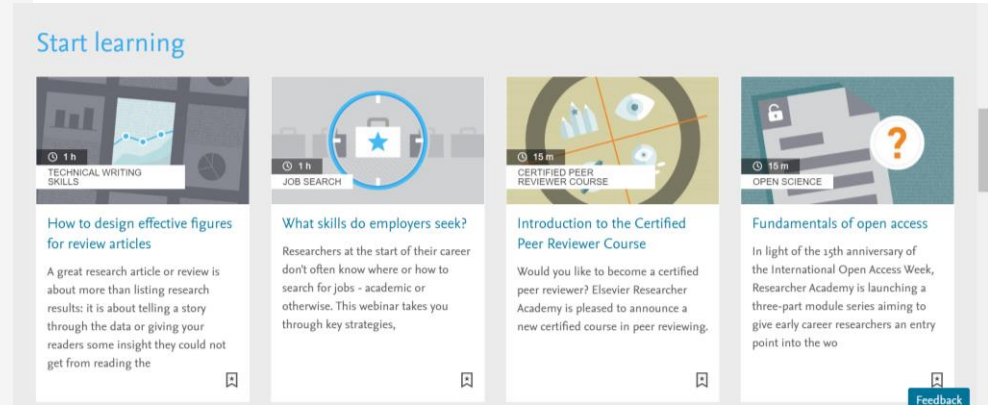
Transparency for Authors: Researcher Academy

7 modules



- Plagiarism: Decision making & dealing with grey-zones across academic fields** (1 h, ETHICS)
Plagiarism is often considered a classic form of scientific misconduct.
- Detecting Image Manipulation: Routines, Tools & Limitations** (15 m, ETHICS)
Advancing technology has put the control of scientific images in the hands of researchers and authors.
- Plagiarism** (40 m, ETHICS)
While plagiarism is serious, it's easy to avoid. We explain how to keep on the right side of the rules.
- Authorship** (40 m, ETHICS)
We explore what it takes to really earn your place on a paper's list of authors.
- Content ownership** (40 m, ETHICS)
You've written a paper, but who technically owns it? We clear up the mystery.
- Why you can't afford to ignore publication ethics** (41 m, ETHICS)
How publishing ethics can help make or break a researcher's career.
- Demystifying permissions** (14 m, ETHICS)
Everything you need to know about permissions and the pitfalls to avoid.

Start learning



- TECHNICAL WRITING SKILLS** (1 h)
How to design effective figures for review articles
A great research article or review is about more than listing research results: it is about telling a story through the data or giving your readers some insight they could not get from reading the
- JOB SEARCH** (1 h)
What skills do employers seek?
Researchers at the start of their career don't often know where or how to search for jobs - academic or otherwise. This webinar takes you through key strategies.
- CERTIFIED PEER REVIEWER COURSE** (16 m)
Introduction to the Certified Peer Reviewer Course
Would you like to become a certified peer reviewer? Elsevier Researcher Academy is pleased to announce a new certified course in peer reviewing.
- OPEN SCIENCE** (15 m)
Fundamentals of open access
In light of the 15th anniversary of the International Open Access Week, Researcher Academy is launching a three-part module series aiming to give early career researchers an entry point into the wo

Feedback

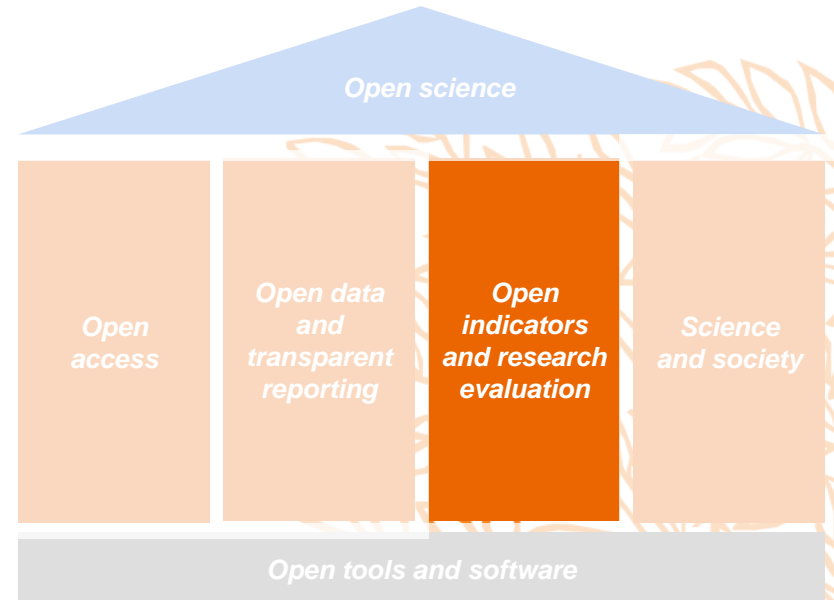
Elsevier's Researcher Academy has resources on how to publish ethically:

<https://researcheracademy.elsevier.com/publication-process/ethics>

And many other training e-learning modules developed by global experts. Career guidance and advice. To get unlimited access to all modules, sign in or register with your email!



Open Indicators and Research Evaluation



Indicators in Research Evaluation: Elsevier's view

- Elsevier seeks to reduce overreliance, lack of transparency and inappropriate application of citation-based journal metrics.
- We support and invest in the development of suitable indicators for all levels of research evaluation.

Base decisions on both **quantitative** and **qualitative** evidence



Seek indicators based on **open, transparent, validated** and **replicable** methods



Use an **array of indicators** appropriately and responsibly



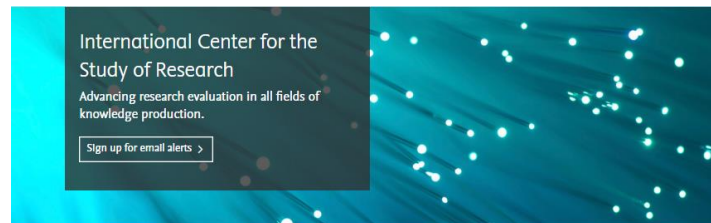
Nurture **trust** between the evaluator and the evaluated through **clear** evaluation criteria



Our commitments to responsible research evaluation



In 2019, Elsevier established The **International Center for the Study of Research (ICSR)** which works in partnership with the research community to further the study of research and to develop responsible approaches to research evaluation.



Our Mission

The mission of the International Center for the Study of Research (ICSR) is to further the study of research and thus to contribute to the evidence base supporting the practice of research strategy, evaluation and policy. Our vision is a world in which decisions informed by such evidence benefit research and society.

In 2020, Elsevier endorsed the **Leiden Manifesto** for Research Metrics, and signed the **Declaration on Research Assessment (DORA)**.

[Published: 22 April 2015](#)

Bibliometrics: The Leiden Manifesto for research metrics

[Diana Hicks](#) [Paul Wouters](#), [Ludo Waltman](#), [Sarah de Rijcke](#) & [Ismael Rafols](#)

[Nature](#) 520, 429–431 (2015) | [Cite this article](#)

25k Accesses | 981 Citations | 2161 Altmetric | [Metrics](#)

Use these ten principles to guide research evaluation, urge Diana Hicks, Paul Wouters and colleagues.



In 2022, Elsevier added its support for the **Agreement on Reforming Research Assessment**.

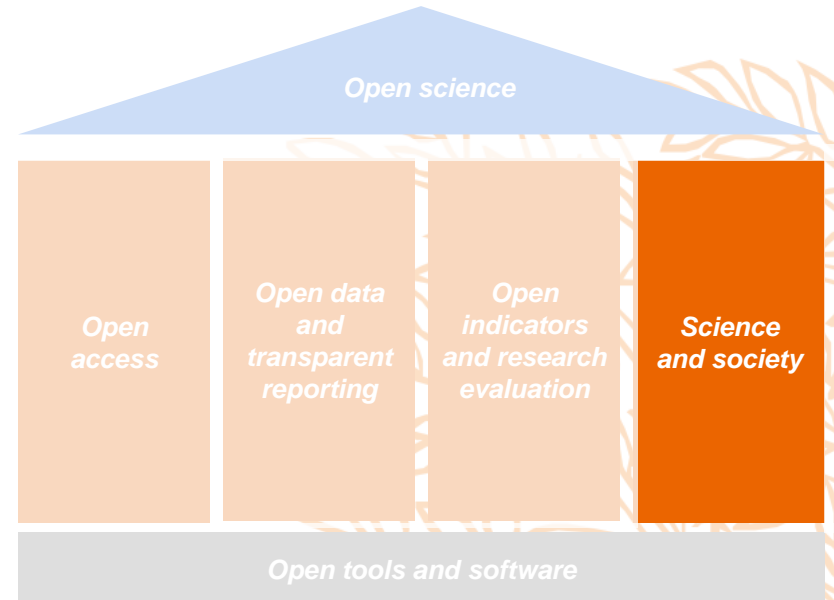
AGREEMENT ON REFORMING RESEARCH ASSESSMENT

20 July 2022





Science and Society



Widening access beyond open access

We partner with non-profits, institutions and organizations to bring scientific outputs closer to citizens, increase science literacy, and make information available where it is most needed. We do this through:

Partnering with **Research4Life** to provide access to researchers at institutions across 120 low- and middle-income countries



Maintaining **public, journalist and patient access** initiatives that bring science to citizens

Translating research with the potential for real-world impact so it can be understood more widely



Providing free access to research in **public health emergencies**

A.I.'s role in Open Science

- Elsevier recognizes the role that A.I. can play in helping authors for whom English is not a native language.
- Our new 'Declaration of A.I.' statement allows authors to acknowledge the role played by A.I. in improving language and readability.
- Use of A.I. should be done with human oversight and should **not** be listed as an author.
- More information on Elsevier's A.I. Policy can be found [here](#).



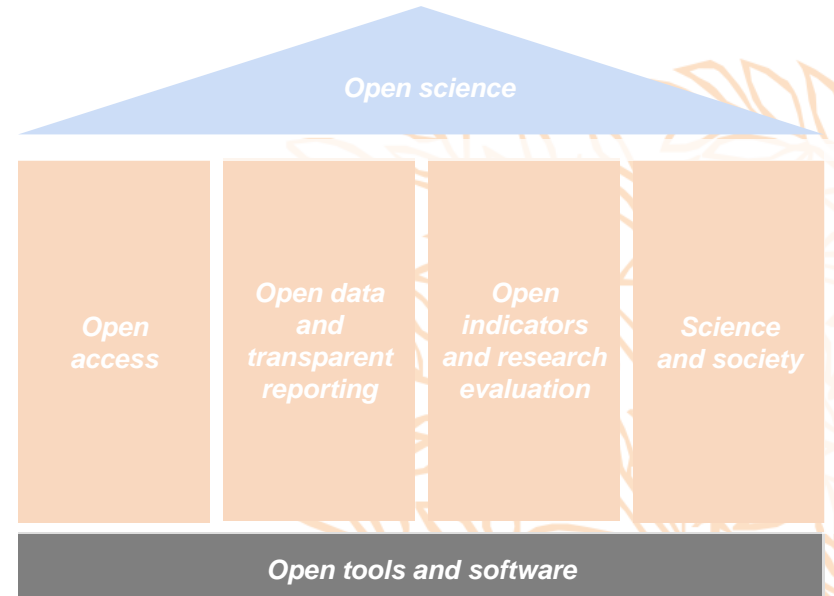
Example Statement:

During the preparation of this work the author(s) used [NAME TOOL / SERVICE] in order to [REASON]. After using this tool/service, the author(s) reviewed and edited the content as needed and take(s) full responsibility for the content of the publication.



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Open tools and software



Open science is underpinned by tools and software





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Thank you

