



Academic Open Access Publishing
since 1996

A focus on OA Publishing Model and dissemination of research

Dr. Giulia Stefenelli

Open Science & Academic publishing output

Introduction

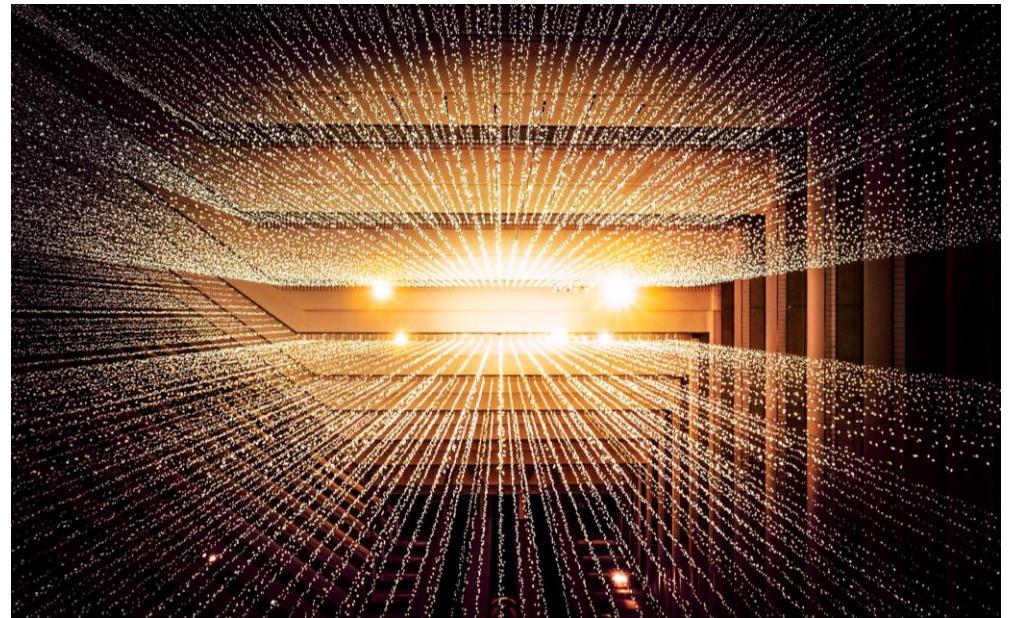


What is Open Science?

Open Science is the movement to make scientific research, data and dissemination **accessible to all levels**¹

Scope²:

- **Transparency** in experimental methodology, observation, and collection of data
- Public **availability and reusability** of scientific data
- Public **accessibility** and transparency of scientific communication
- Using web-based tools to facilitate scientific **collaboration**



¹ FOSTER, Open Science Definition: <https://www.fosteropenscience.eu/taxonomy/term/7>

² The OpenScience Project, What exactly is open science: <https://openscience.org/what-exactly-is-open-science/>

Benefits

Transparent ✓
Available ✓
Accessible ✓

To Researchers

- Greater visibility & reach of research
- Retention of copyright
- Increased citation impact ^{1,2}

To General public

- Faster knowledge transfer
- Opportunity for public to increase knowledge and understanding
- Promoting engagement in science and research

To Funders

- Increased visibility & reuse of publicly funded research
- Greater funding impact
- Bring the investment back to the society

To Policy makers

- Informed policy decisions

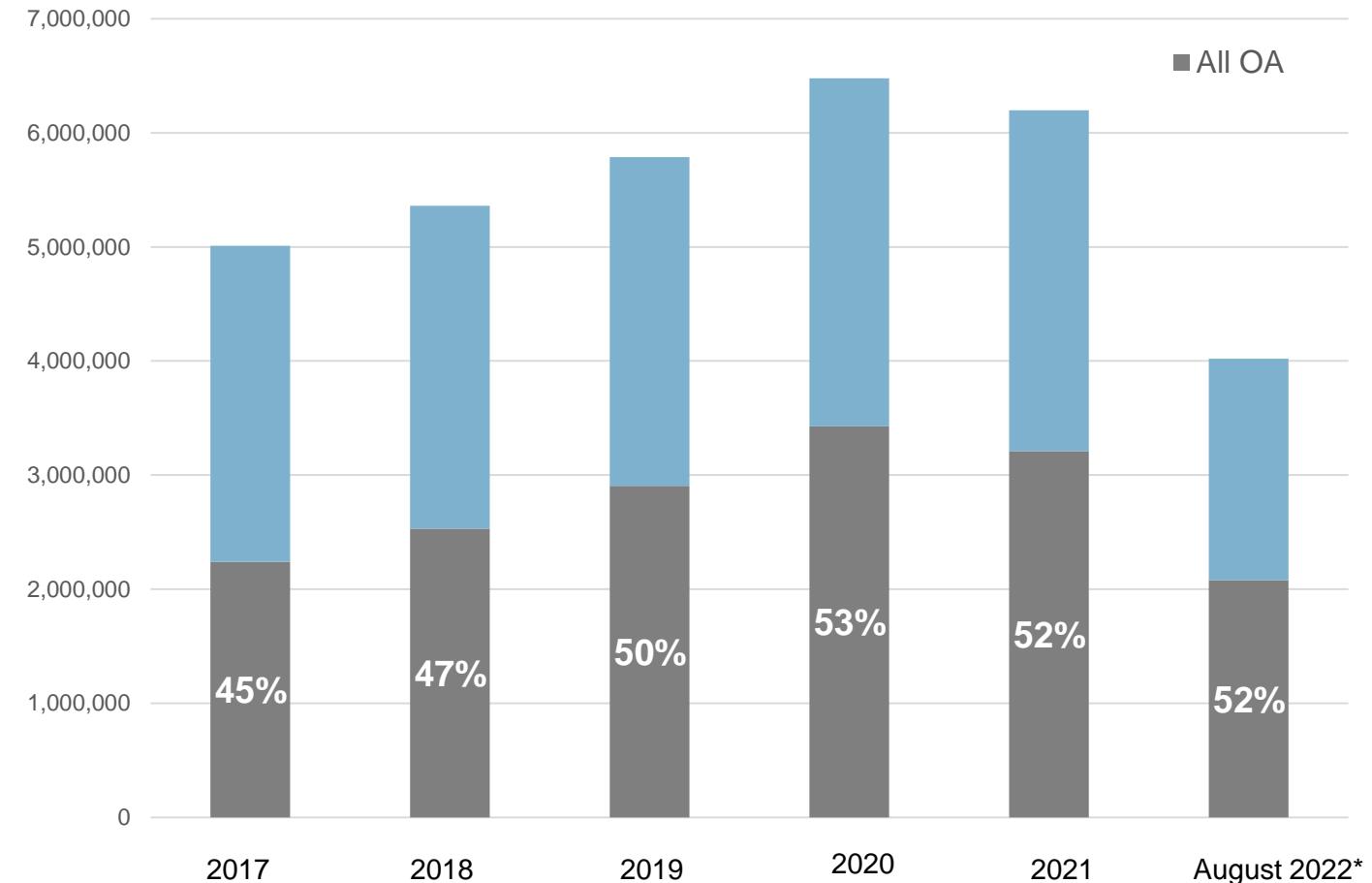
¹ Knowledge sharing in global health research – the impact, uptake and cost of open access to scholarly literature (Health Res. Policy Syst., 2017)

² Assessing the open access effect for hybrid journals (<https://www.springernature.com/gp/open-research/about/oa-effect-hybrid>, Accessed on: 08.09.2022)

Academic Publishing Output

OA continues to grow, currently representing
>50% of total articles published.

Over the past 5 years total OA publishing
grew by an average of 10% each year, while
closed (subscription) only by 3%.



*as of August 30th, 2022. Based on data from Dimensions, Digital Science

MDPI – Pioneer in OA

MDPI overview



MDPI - Mission

Promote open scientific exchange
through scholarly open access
journals, and scientific communication
projects across all disciplines.



MDPI - Philosophy



Fast peer review and **fair** publishing service cost.



Swift dissemination of research to allow reproducibility and validation, accelerating knowledge advancement.



Publishing sound research, including negative results.

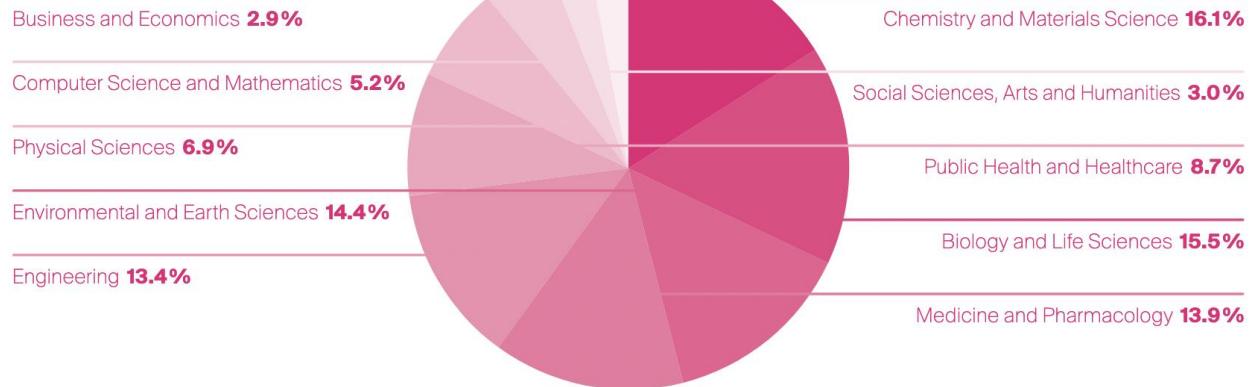


Significance of an article to be judged by the community at large, not only two reviewers and an editor.

MDPI – today

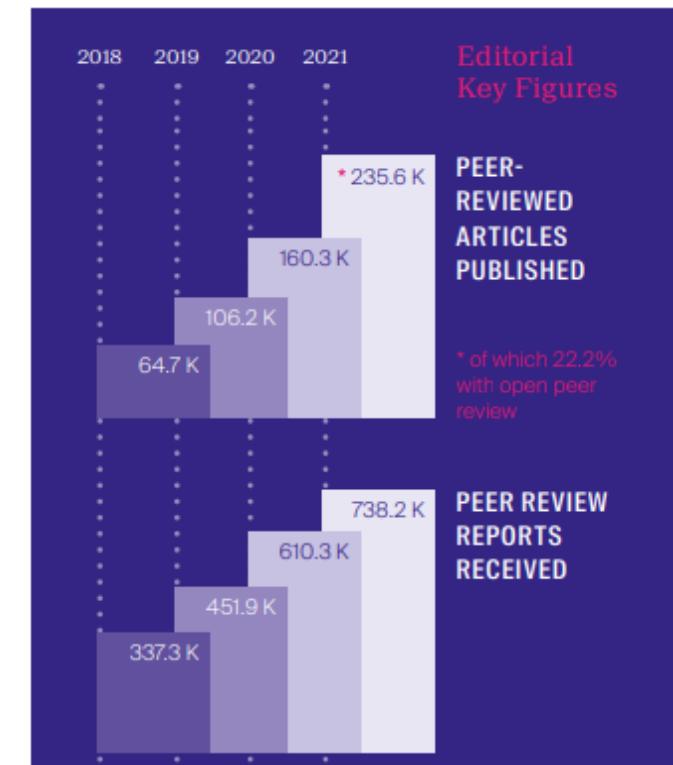
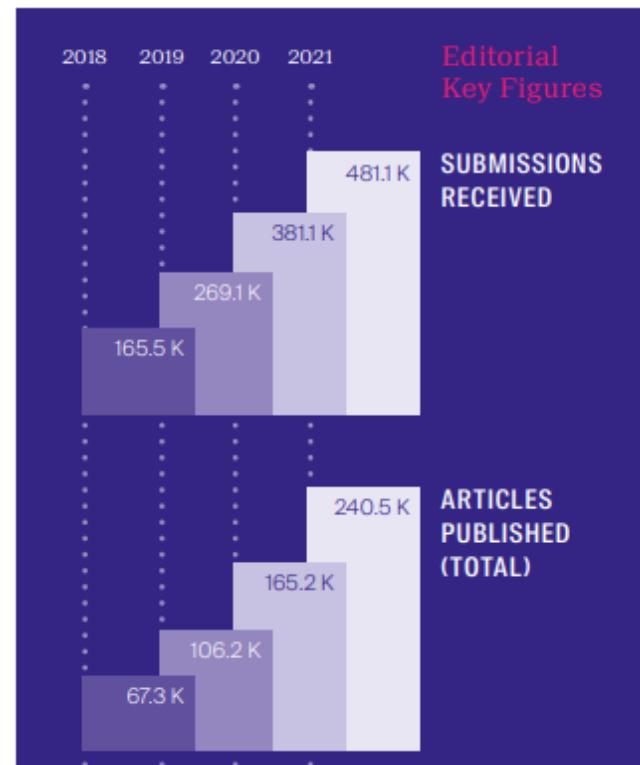
- Multi-disciplinary Publishing Institute (MDPI)
- OA publisher
- 25+ years of experience
- Largest OA publisher
- 400+ gold OA peer-reviewed journals across all subject disciplines
- 9 conference journals publishing outputs from academic conferences
- 6,000+ employees
- 19 offices in 14 countries around the world
- Head office in Basel, Switzerland

SUBJECT CATEGORIES (BY ARTICLES PUBLISHED)



MDPI – OA paper published

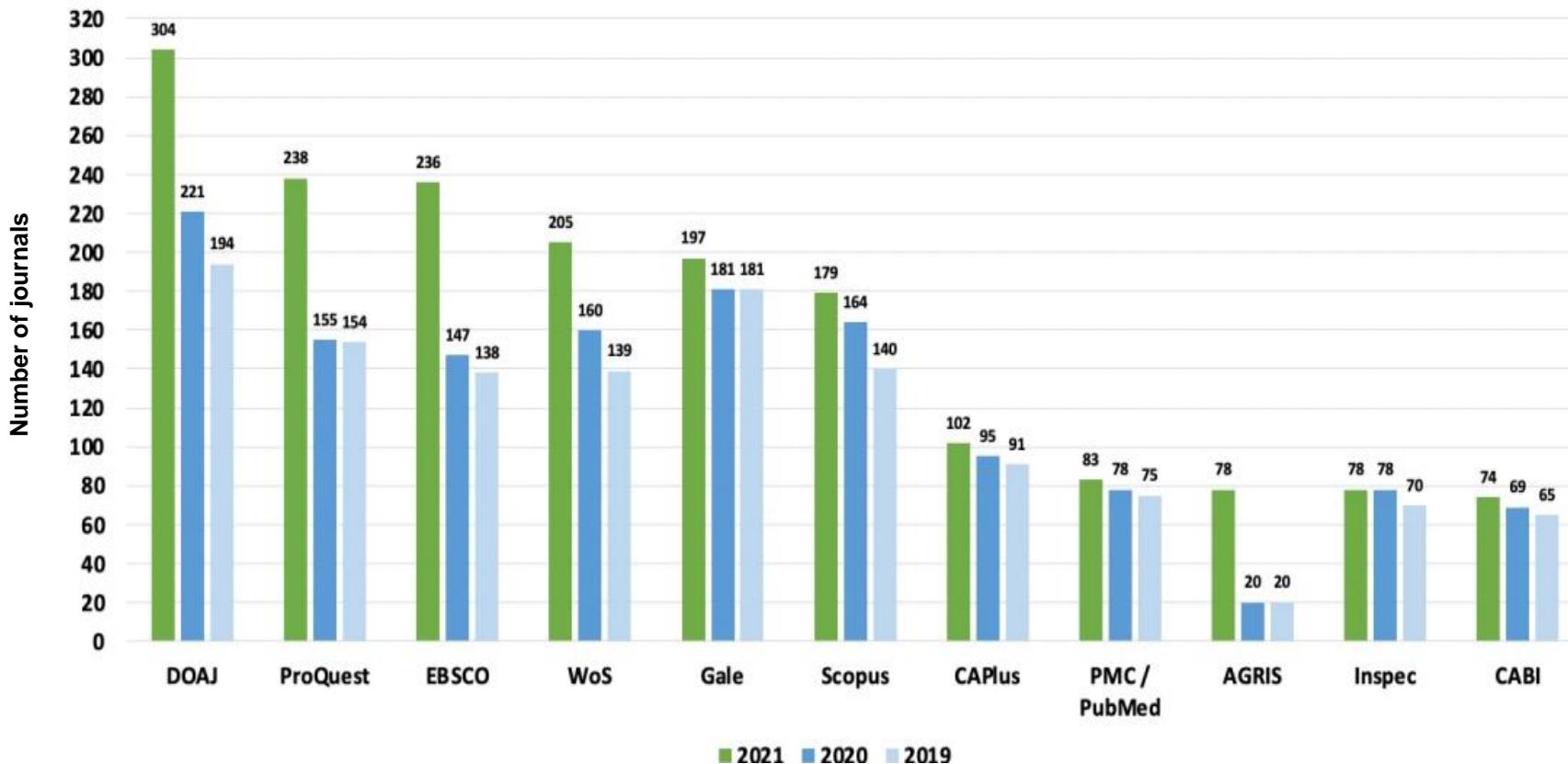
- Submissions in 2021: 480,000+
- Articles published in 2021: 240,000+
- Average Publication Time: 38 days
- Peer review reports received in 2021: 730,000+



MDPI Annual Report 2021 -
<https://www.mdpi.com/annual-report-2021>



MDPI – Journals indexing



Increased journal coverage.

We are indexed in:

- 63 indexing & abstracting databases
- 10 international ranking platforms
- 10 journal directories

MDPI – Journals quality and impact

	Total OA published 2017 - 2022	Dimension		Web of Science	
		Citations	Altmetrics	Citations	Category Normalized Citation Impact (CNCI)
All OA published	16,997,905	4.98	30.71%	10.64	1.24
MDPI	841,437	6.77	43.83%	9.08	1.9

- Based on Dimensions data, **MDPI articles receive a higher number of citations (mean) than the average of all OA publications**, but relatively lower than the traditional publishers. **Almost 44% of all papers published by MDPI have been shared or cited via social media channels** (Altmetrics), significantly more than the industry average.
- Looking at Web of Science's metrics, OA papers published by MDPI are constantly cited and **the average number of citation is not far from the overall average or the traditional publishers**. Using the Category Normalized Citation Impact (CNCI), MDPI's performance is above average of industry.



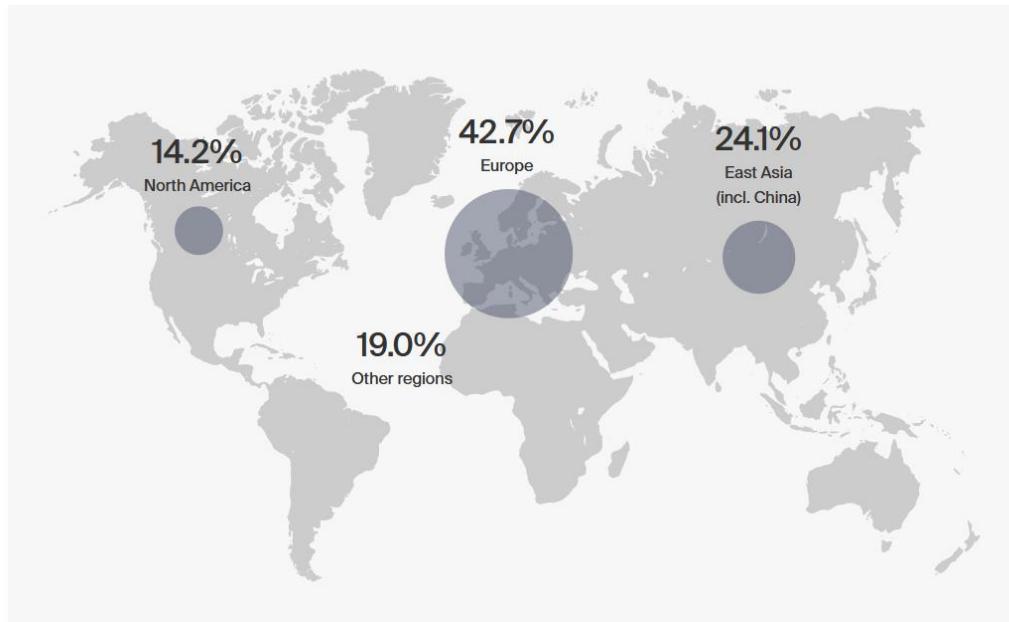
MDPI – Scientific community and OA mandates

87,859
Academic Editors

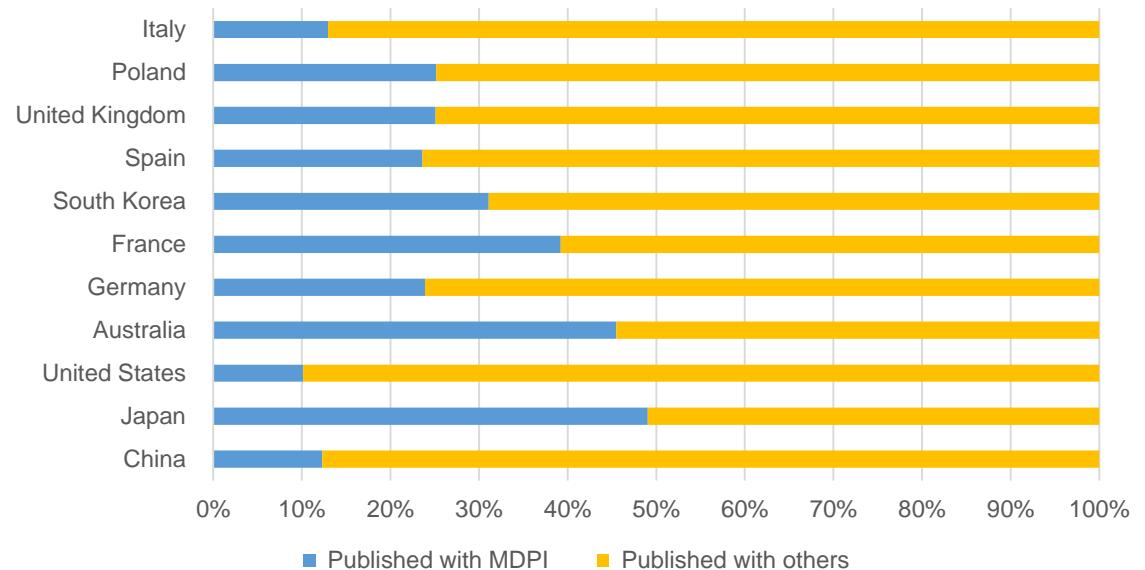
908
IOAP members

176
Society collaborations

Authors geographical distribution - authorship is global



% of OA papers published by MDPI vs Total OA published in a country (2021)



In Europe, Poland, UK, Germany, Austria and Spain are country where **at least 20% of the total OA articles are published in an MDPI journal**.



MDPI's full Gold OA model aligns with national mandates governments have set out for the transition to OA.

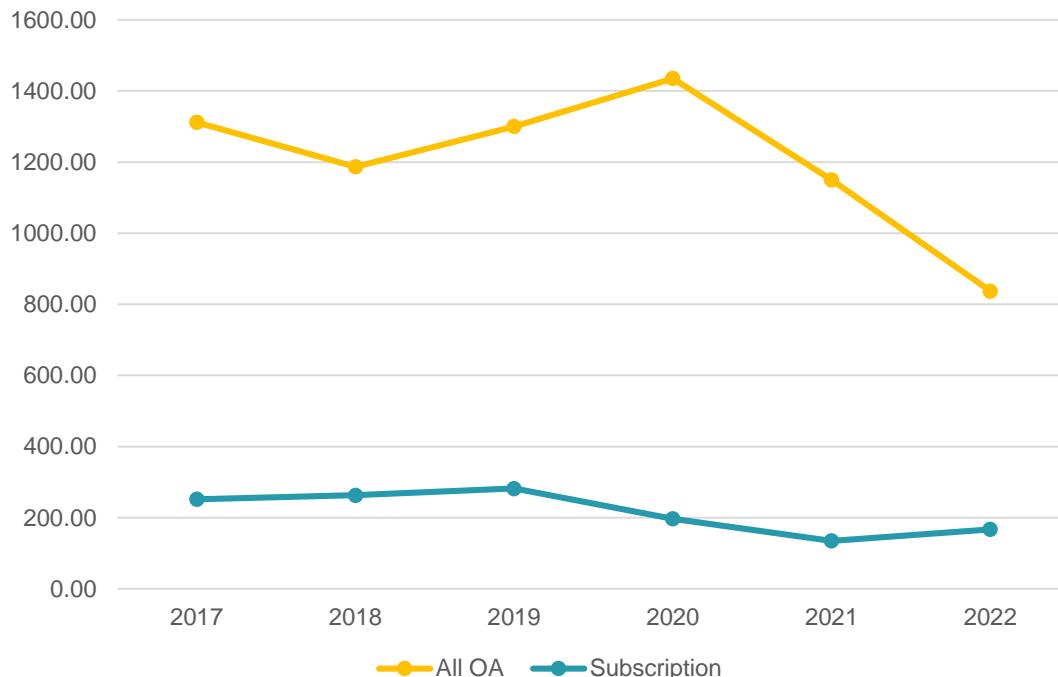
CERN – Impact of OA publications and MDPI

CERN overview



CERN and OA

OA vs Subscription Publications at CERN



Source: <https://app.dimensions.ai>

Exported: August 30, 2022

Criteria: Publication Year is 2022 or 2021 or 2020 or 2019 or 2018 or 2017; Publisher is MDPI.

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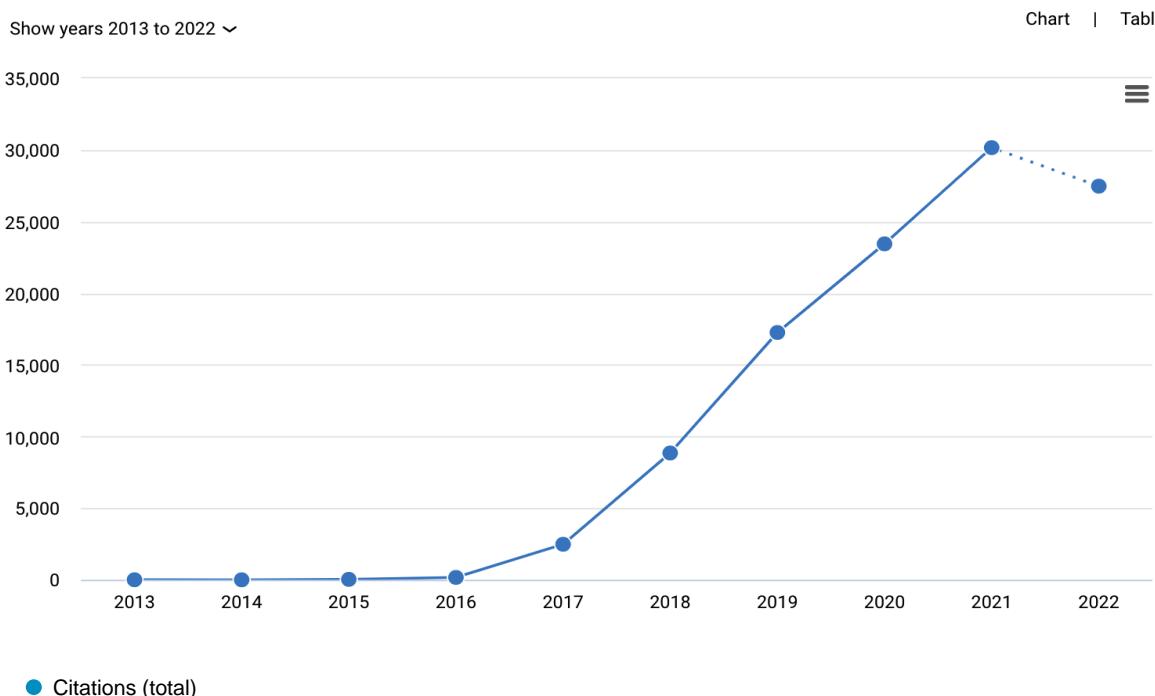


CERN - leading research organization in terms of OA articles published.

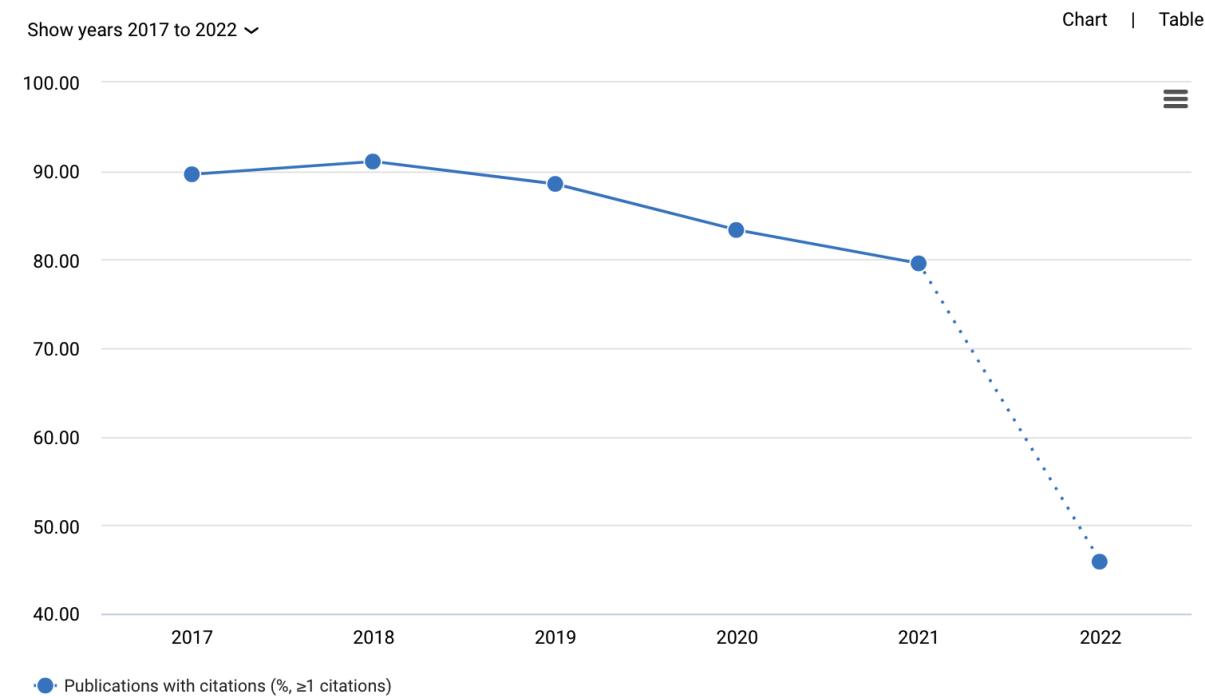
Organization Country	↓ Publications	Citations	Citations mean
European Organization for Nuclear Research (CERN) Switzerland	7,221	109,905	15.22
INFN Sezione di Bologna Italy	1,790	35,477	19.82
National Laboratory of Frascati (LNF) Italy	1,771	36,050	20.36
Petersburg Nuclear Physics Institute (PNPI) Russia	1,681	36,779	21.88
INFN Sezione di Roma I Italy	1,619	35,463	21.90
Joint Institute for Nuclear Research (JINR) Russia	1,593	30,346	19.05
Lomonosov Moscow State University (MSU) Russia	1,519	31,328	20.62
Rutherford Appleton Laboratory (RAL) United Kingdom	1,511	36,785	24.34
INFN Sezione di Genova Italy	1,503	31,660	21.06
Institute for Theoretical and Experimental Physics (I... Russia	1,499	31,750	21.18

CERN – impact of OA publications

OA Papers published by **CERN affiliated authors** are increasingly cited.

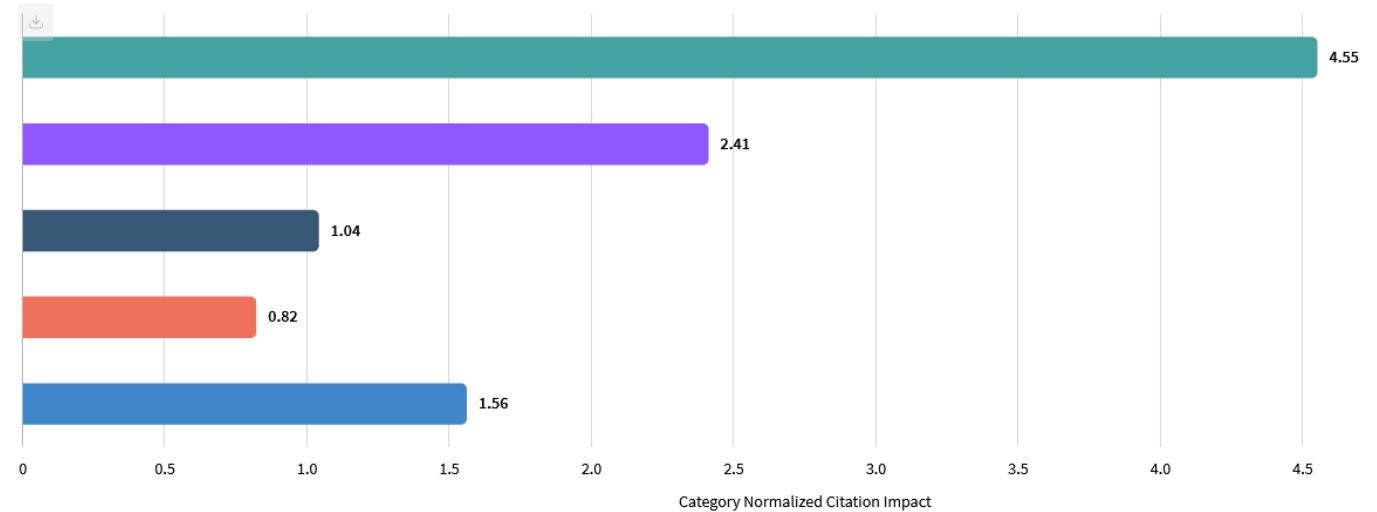
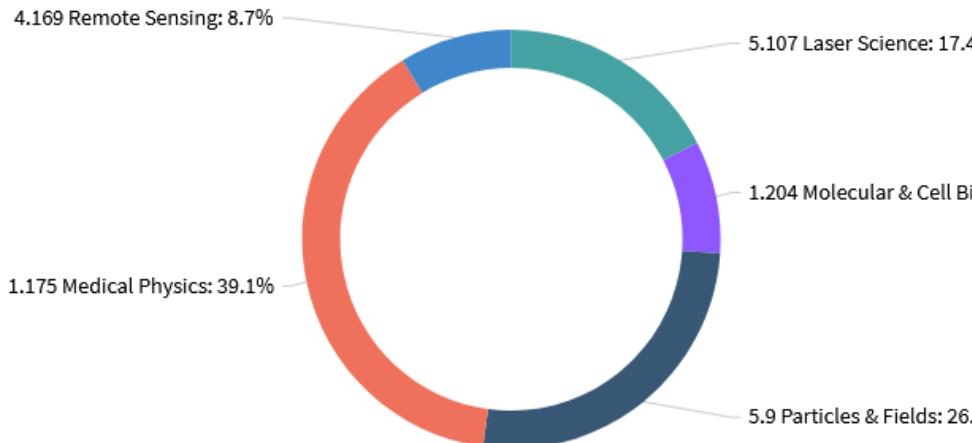


On average of **84%** of OA papers published are cited at least once.



CERN and MDPI

Most prominent topics published by CERN scholars with MDPI.



InCites dataset updated Sept 30, 2022. Include Web Of Science content indexed through Aug 31, 2022. Export date Oct 22, 2022.



● 5.107 Laser Science ● 1.204 Molecular & Cell Biology - Immunotherapy ● 5.9 Particles & Fields ● 1.175 Medical Physics ● 4.169 Remote Sensing

CERN and MDPI

Between 2013 and 2022:

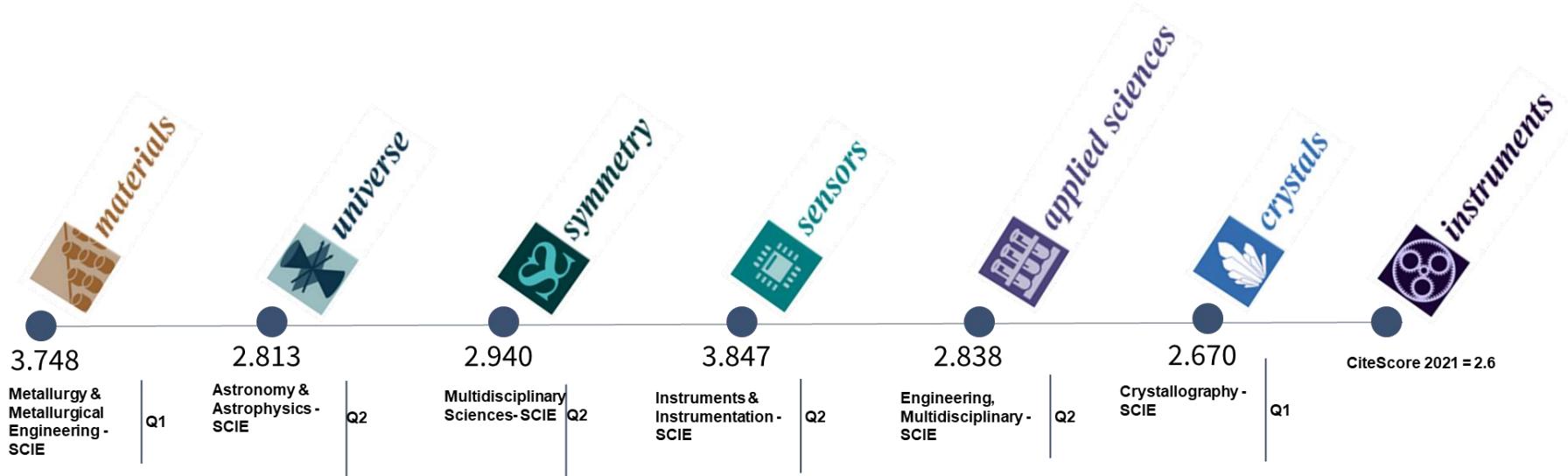
- Number of MDPI authors affiliated with CERN = 525
- Number of published articles = 273
- Views and citations per article; Total views = 367'348, Total citations = 366'800

Currently:

- Number of EBMs = 31
- Number of GEs = 66

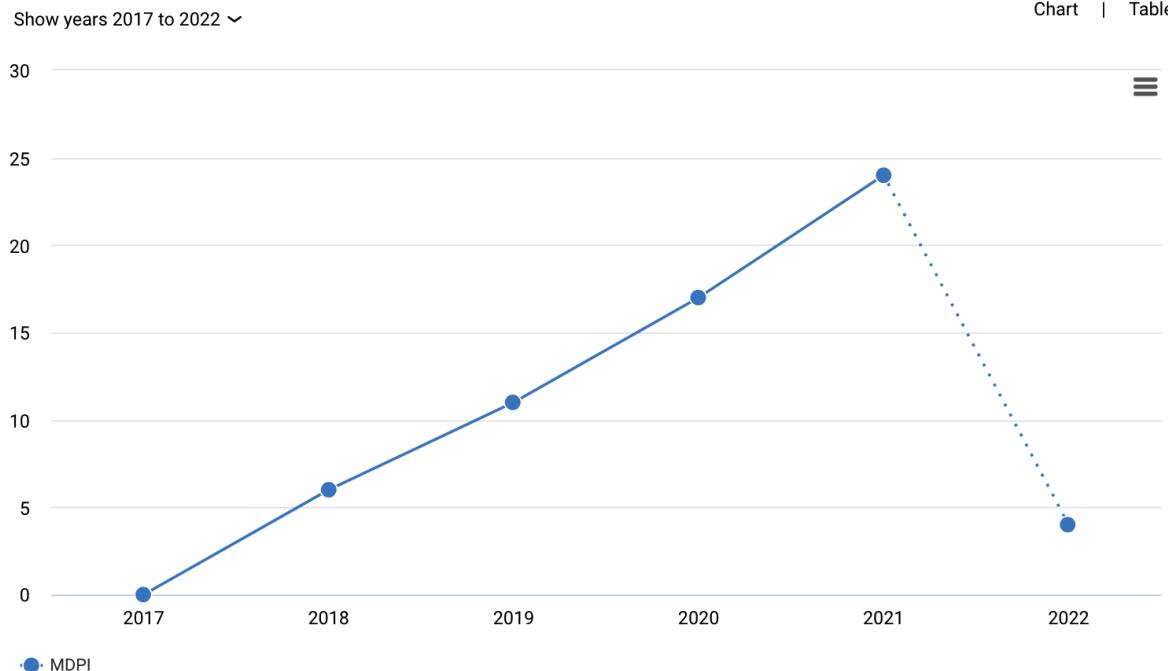
Most Cited Web of Science Documents	
Article Title	Times Cited
SwissFEL: The Swiss X-ray Free Electron Laser APPLIED SCIENCES-BASEL 2017	190
CERN-MEDICIS (Medical Isotopes Collected from ISOLDE): A New Facility APPLIED SCIENCES-BASEL 2014	60
Folate Receptor Targeted Alpha-Therapy Using Terbium-149 PHARMACEUTICALS 2014	48
Enhancing Light Extraction of Inorganic Scintillators Using Photonic Crystals CRYSTALS 2018	29
Starobinsky-Like Inflation and Running Vacuum in the Context of Supergravity UNIVERSE 2016	28

Top journals for CERN authors
(2013-2022)

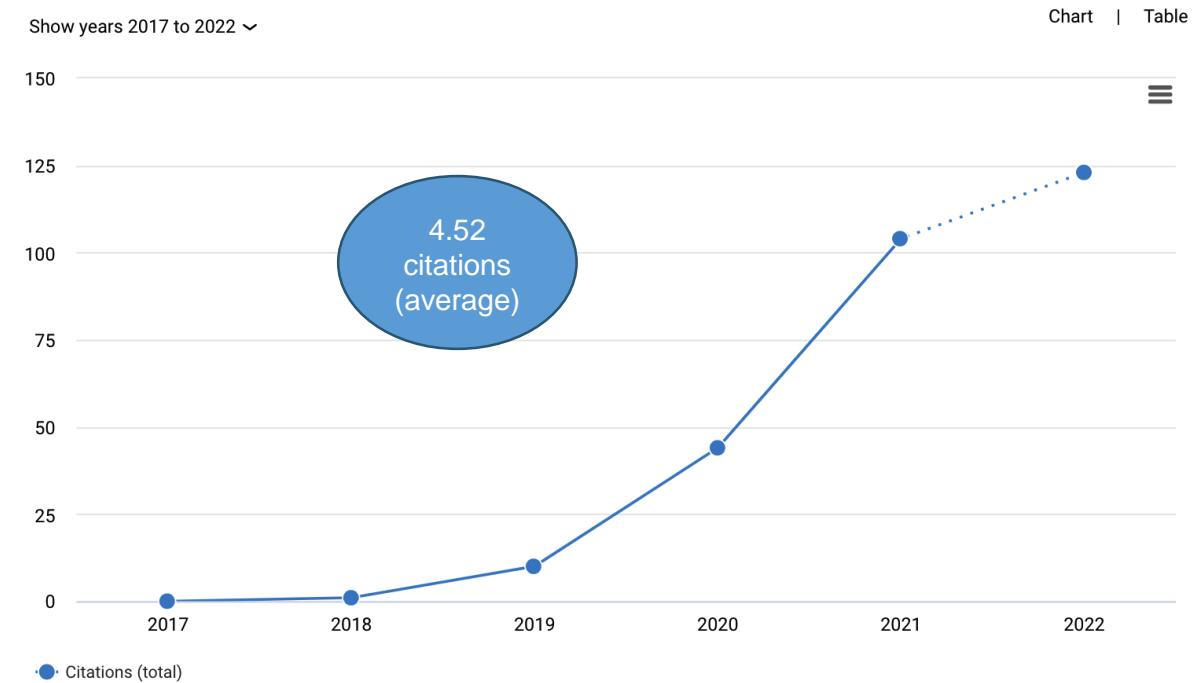


CERN and MDPI

Articles published with MDPI



Total number of citations for MDPI published papers



MDPI – Supporting tools and editorial process

Editorial process overview



Special Issues & Topics



Special Issues: An adaptable tool for supporting scientific research

Insight Faster



Special Issues: An adaptable tool for supporting scientific research

16 November 2021 | by Jonathan Steffen, Luca Rasetti and Stefan Tochev



<https://www.mdpi.com/anniversary25/blog/special-issues>



Collaborative and Interdisciplinary Article collections

Benefits for authors

- disseminate research focusing on specific interdisciplinary themes more widely and more efficiently;
- allow authors from different research areas to unite around one subject.
- benefit from collaboration across disciplines and from broader readership and visibility;
- discover multi-disciplinary applications and develop new ideas;
- help to share reviews, original articles, case reports, opinions, and perspectives for interdisciplinary topics;

Benefits for external editors

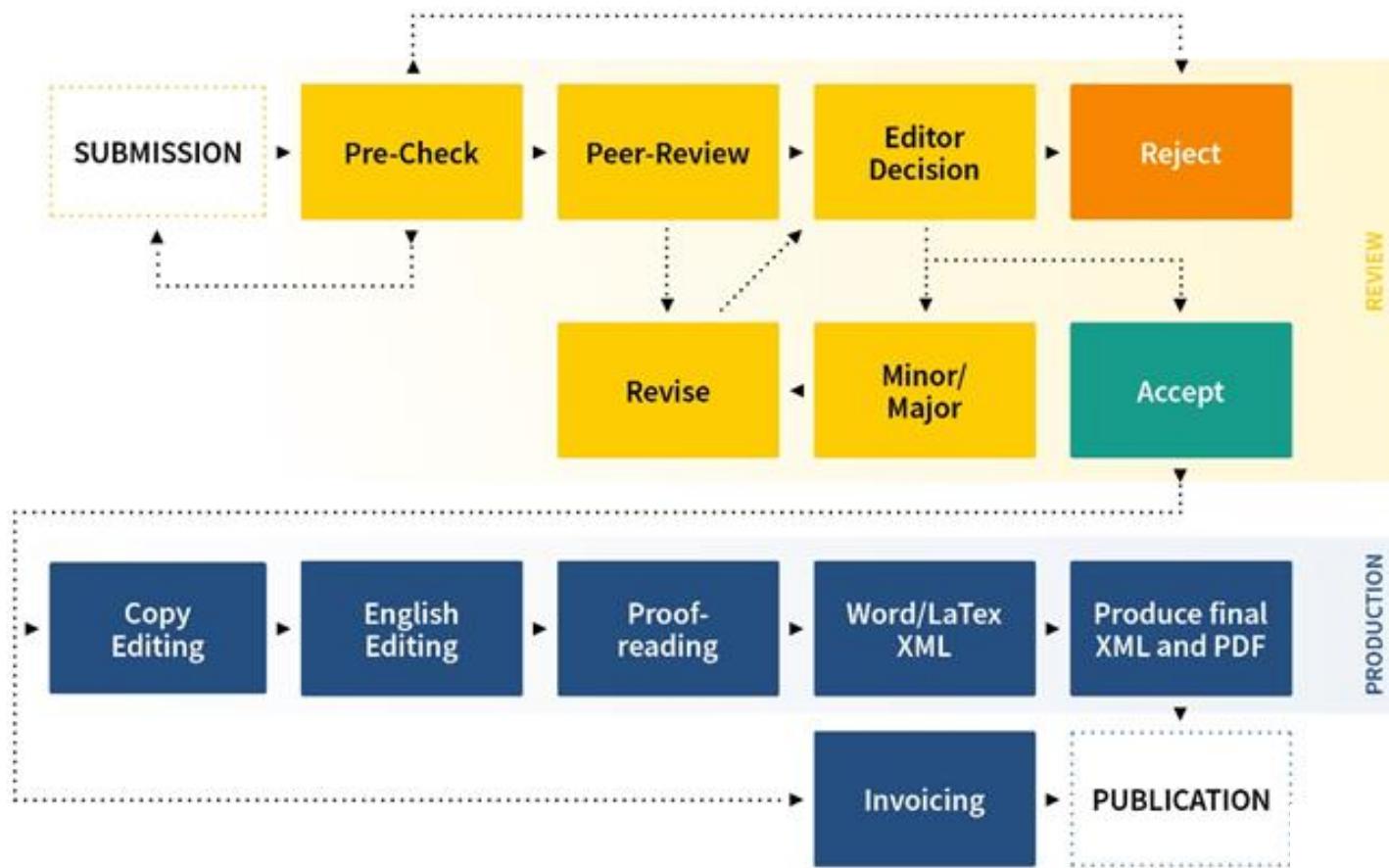
- enhance editors' network of scientific collaboration;
- gain insights into trends within their areas of research and beyond;
- find out how cutting-edge topical issues, presented in an open-access resource, increase research impact;
- strengthen cooperation between fellows in various disciplines.

Editorial process

In-House staff will perform essential checks and invite an Academic Editor from our board to make an initial assessment

Reviewers will be invited to provide review reports

Open Peer-review option for authors



We coordinate with the Editors, Reviewers and Authors to ensure that this is a collaborative process and that the manuscript is ultimately improved



MDPI – beyond journal publication

Dissemination of research



Preprints



Preprints has the following features:

- **Multidisciplinary:** cover all research disciplines.
- **Open access:** posted with a CC BY 4.0 license, ensuring that authors retain copyright, while allowing anyone to read and reuse their work.
- **Citation via Crossref DOI:** instantly citable and provides a permanent link to the article. New versions receive a different DOI.
- **Comment on any article:** Authors can receive public or private feedback from readers directly from the preprint abstract page.

1 Submission Authors upload their manuscript and supplementary files via the online submission system.	2 Moderation Preprints editors carry out initial checks on content, decisions are made within 24 hours.	3 Archived & Online Preprints that pass the initial checks are posted online, are immediately citable and open for comments.		
 All Research Fields Accept preprints from all fields, so your article will always be a good fit.	 High visibility Link ORCID, SciProfiles and social media accounts to make sure your preprint gets noticed.	 Permanent Archiving Upload multiple versions of your paper: they will all be securely archived.	 Article-Level Metrics Keep track of all mentions of your article counts, whether on social media, in news outlets or citations.	 Citable All preprints receive a digital object identifier (doi) to make them immediately citable.

Other initiatives



SciProfile, a social network for researchers and scholars. It helps you find relevant publications, conferences and keeps you updated with the latest events in your network.



SciForum platform provides online tools to support all aspects of conference organization and creates an environment for scholarly exchange, discussion of topics of interest, building of networks and establishing collaborations.



Scilit is a multidisciplinarity, free scholarly database that indexes scientific material by extracting the latest data from CrossRef, PubMed and other sources on daily basis.



Thank you – Q&A

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Memberships



DOAJ

