



Breaking Barriers, Building Bridges:

How Open Science Empowers Early-Career Researchers (ECR)

9/1/ 2026

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Subject Publishing Director, MDPI
Environment, Marine and Water Ecology Subject

What support does an ECR need?

- ❑ Financial support
- ❑ Research/Writing trainings
- ❑ More & good publications
- ❑ Networks & Conferences
- ❑ Visibilities & Opportunities
- ❑



Professional Experience

- Apr 2026 – Present: Subject Publishing Director, MDPI (China)
- Jan 2020 – Apr 2026: Publisher, Marine Journals, Elsevier (China)
- Dec 2018 – Sep 2019: Associate Publisher,, Elsevier (Netherlands)
- Feb 2018 – Dec 2018: Managing Editor, Elsevier (Netherlands)

Research Experience

- Jun 2014 – Jan 2018: Post-doc Italian Institute of Technology (Italy)
- May 2012 – May 2014: Research Assistant, Chinese Academy of Sciences (China)
- Nov 2010 – Jan 2012: Visiting Scholar, University of Cambridge (United Kingdom)

Education

- Sep 2008 – Aug 2012: Ph.D. in Natural Sciences, University of Munich (Germany)
- Sep 2005 – Jul 2008: M.Sc. in Material Physics, Shandong University (China)
- Sep 2001 – Jul 2005: B.Sc. in Applied Physics, Shandong University (China)

About MDPI

- ❑ Multidisciplinary Digital Publishing Institute
- ❑ Founded in Switzerland in 1996
- ❑ A global leading open-access publisher
- ❑ Committed to high standards of publishing quality and research integrity
- ❑ Providing a rich array of research tools and services
- ❑ Advancing open science and empowering researchers
- ❑ Accelerating scientific progress and making knowledge accessible to all



Community

The academic community is at the center of what we do. We listen to feedback from the community and work together to meet their changing needs.

Transparency

Our practices are transparent, from open peer review to data sharing, making science more trusted and research more replicable.

Open Access

Our content is open access and distributed under a Creative Commons License, providing free access to knowledge, enabling research findings to be freely shared and content to be re-used with attribution.

Responsiveness

Our fast and efficient processes provide scientists with the convenience they need to quickly translate critical knowledge into positive societal impact.

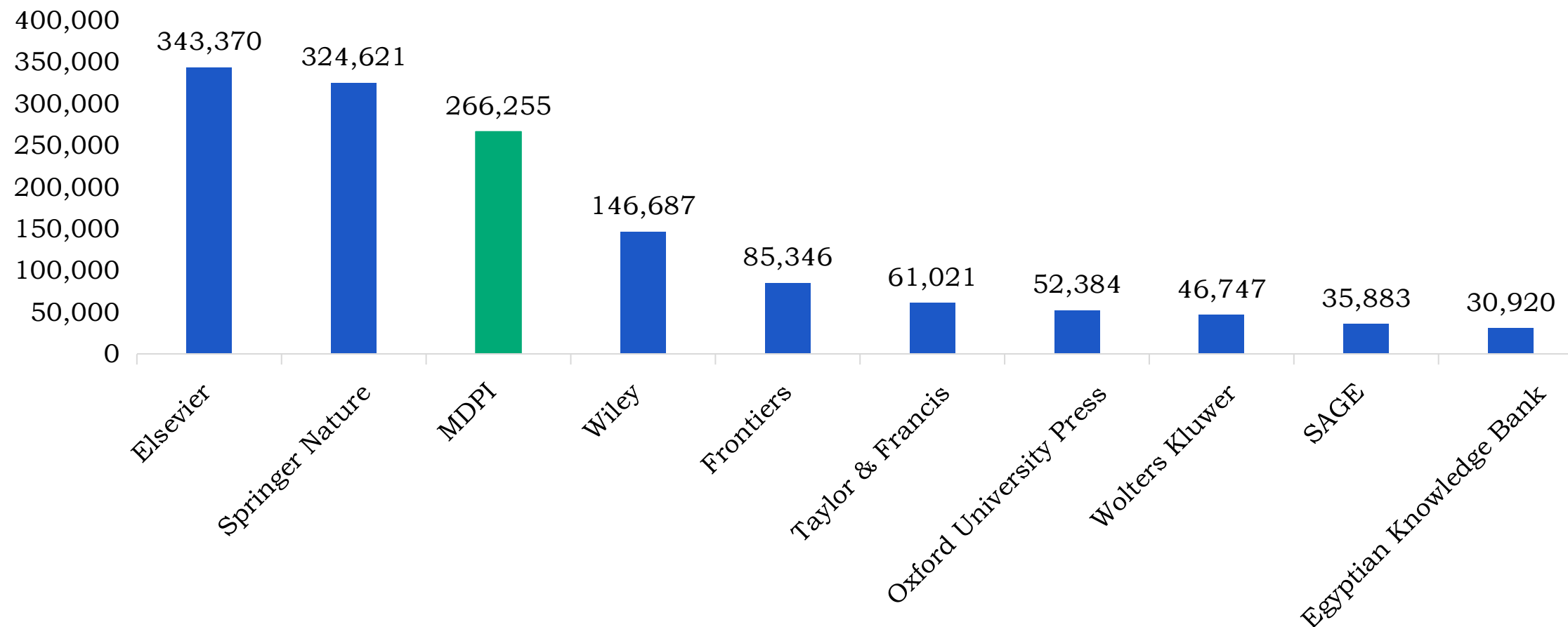
Quality

We form an integral pillar of academic integrity, uphold high ethical standards and join in the industry-wide efforts to fight fraud in a transparent and fair way.

Innovation

We remain at the forefront of academic innovation, empowering open scientific exchange in all forms and across all research disciplines.

The Landscape of OA Publishing in 2025



Data source: Scilit, an MDPI research database (www.scilit.com)

Featured Journals in all Subjects

 <i>sustainability</i>	JCR Q2 & Scopus Q1	 <i>mathematics</i>	JCR Q1 & Scopus Q1	 <i>AI</i>	JCR Q1 & Scopus Q2
 <i>applied sciences</i>	JCR Q2 & Scopus Q1	 <i>molecules</i>	JCR Q2 & Scopus Q1	 <i>technologies</i>	JCR Q1 & Scopus Q1
 International Journal of <i>Molecular Sciences</i>	JCR Q1 & Scopus Q1	 <i>remote sensing</i>	JCR Q1 & Scopus Q1	 <i>eng</i>	JCR Q1 & Scopus Q2
 Journal of <i>Clinical Medicine</i>	JCR Q1 & Scopus Q1	 <i>cancers</i>	JCR Q2 & Scopus Q1	 <i>machine learning & knowledge extraction</i>	JCR Q1 & Scopus Q1
 <i>sensors</i>	JCR Q2 & Scopus Q1	 <i>nutrients</i>	JCR Q1 & Scopus Q1	 <i>information</i>	JCR Q2 & Scopus Q1
 <i>electronics</i>	JCR Q2 & Scopus Q1	 <i>diagnostics</i>	JCR Q1 & Scopus Q1	 <i>smart cities</i>	JCR Q1 & Scopus Q1
 <i>materials</i>	JCR Q2 & Scopus Q1	 <i>plants</i>	JCR Q1 & Scopus Q1	 <i>education sciences</i>	JCR Q1 & Scopus Q1
 <i>buildings</i>	JCR Q2 & Scopus Q1	 <i>healthcare</i>	JCR Q1 & Scopus Q1	 <i>behavioral sciences</i>	JCR Q1 & Scopus Q1
 <i>foods</i>	JCR Q1 & Scopus Q1	 <i>animals</i>	JCR Q1 & Scopus Q1	 <i>social sciences</i>	JCR Q1 & Scopus Q1

Journal Development on Impact

A growing number of MDPI journals are strengthening their influence within their respective fields, with several ranking among the top journals by Impact Factor in their Web of Science categories.

 *machine learning & knowledge extraction* IF 4.0 (2023) → 6.0 (2024) → 8.4 (2025)

 *antioxidants* IF 6.0 (2023) → 6.6 (2024) → 8.2 (2025)

 *analytica* IF 3.6 (2024, first) → 7.4 (2025)

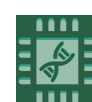
 *macromol* IF 4.4 (2024, first) → 7.2 (2025)

 *pharmaceutics* IF 4.9 (2023) → 5.5 (2024) → 6.9 (2025)

 *AI* IF 3.1 (2023) → 5.0 (2024) → 6.5 (2025)

 *gels* IF 5.0 (2023) → 5.3 (2024) → 6.4 (2025)

 *batteries* IF 4.6 (2023) → 4.8 (2024) → 6.3 (2025)

 *biosensors* IF 4.9 (2023) → 5.6 (2024) → 6.2 (2025)

 *biomass* IF 6.1 (2025, first)

 *cells* IF 5.1 (2023) → 5.2 (2024) → 6.0 (2025)

 *foods* IF 4.7 (2023) → 5.1 (2024) → 6.0 (2025)

Institutional Partners



Community & Partnership: Cooperation with Societies

–In collaboration with over 200 internationally recognized societies, MDPI continues to enhance its services and support the global academic community.



*World Electric
Vehicle Journal*

世界电动车学会



*International Journal of
Geo-Information*

国际摄影测量与遥感学会



*International Journal of
Neonatal Screening*

国际新生儿筛查学会
美国公共卫生实验室协会
德国新生儿筛查学会
法国新生儿筛查学会
日本新生儿筛查学会
英国新生儿筛查学会



*applied system
innovation*

国际知识创新与发明学会



*International Journal of
Turbomachinery
Propulsion and Power*

欧洲叶轮机械学会



*Société Internationale
d'Urologie Journal*

国际泌尿外科学会



*International Journal of
Orofacial Myology and
Myofunctional Therapy*

国际颌面肌学学会



*Journal of the
American Podiatric
Medical Association*

美国足病医学会



dermatopathology

欧洲皮肤病理学会



*european
burn journal*

欧洲烧伤学会



*clinical and translational
neuroscience*

瑞士临床神经学会联合会



*gout, urate, and crystal
deposition disease*

痛风、高尿酸血症和晶体相关疾病研究网络

Research Integrity

Manually & Technical Checks

- Plagiarism detection
- Duplicate submission detection
- Templated review report detection
- Authors/reviewers of concern alert
- False affiliation alert
- Manuscript content alert
- IP address verification
- Fake email detection
- Unusual self-citation alert
- Conflict of interest detection
- Ethics checklist tool
- AI text detection tool
- AI image manipulation detection tool
- Authors of concern detection tool
- More tools under test



Peer Review Checks

- Single- or double-blind peer review
- Strict confidentiality and anonymity
- Matching with qualified reviewers
- Scientific input provided
- Conflict of interest disclosure required
- At least two reports + academic editor decision
- Rejection reviews → double confirmation by editorial board before acceptance

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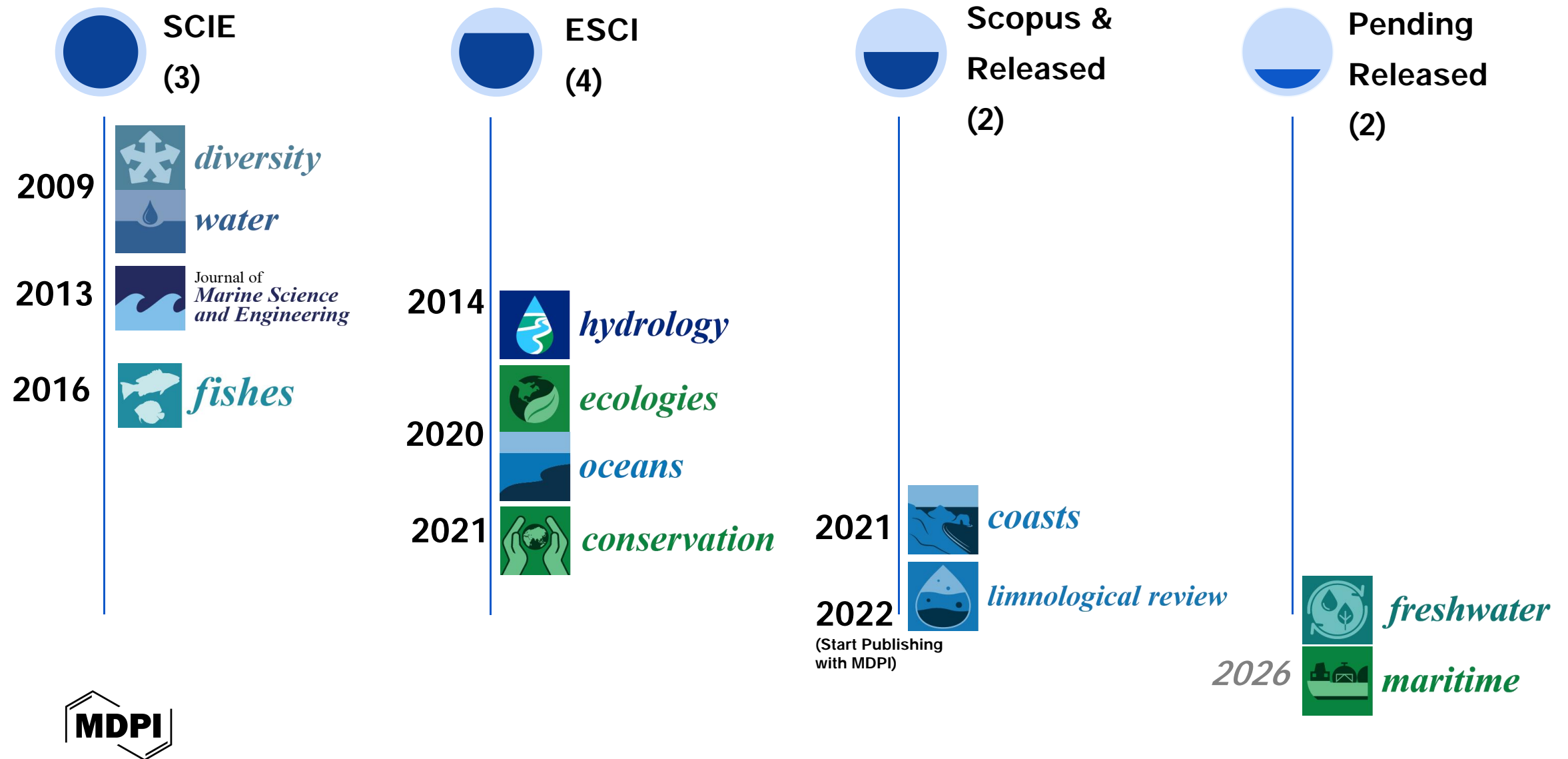
Ethics Checks

- Research protocol and IRB approval check
- Written informed consent verification
- Human subjects research ethics compliance
- Animal research ethics compliance
- Clinical trials: ICMJE compliance
- Randomized controlled trials: CONSORT 2021 compliance
- Systematic reviews: PRISMA compliance
- In vivo animal studies: ARRIVE compliance
- Case reports: CARE compliance
- Meta-analyses: PRISMA compliance
- Euthanasia: AVMA compliance
- Plants: genetic information and origin verification
- Rare/non-model plants: specimen voucher verification
- Commercial cell lines: origin verification
- Newly constructed human cell lines: IRB approval + written informed consent

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Data as of 10 May 2026.

Subject of Environment, Marine and Water Ecology

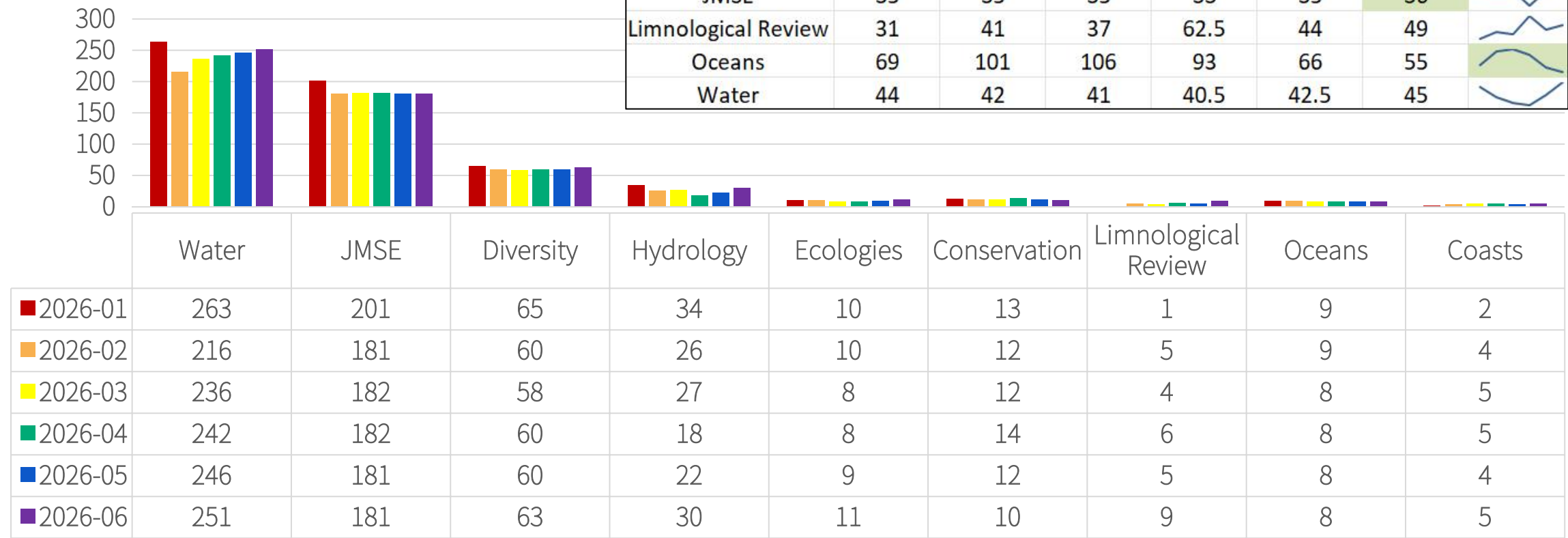


学科简介- Quartile and IF

Journal Name	Category	Edition	2024 JIF	2024 JIF Quartile	2025 JIF	2025 JIF Quartile	IF Chang	Increase Rate	Quartile Trend
Diversity	BIODIVERSITY CONSERVATION	SCIE	2.1	2	2.3	2	0.2	9.52%	Unchanged
Diversity	ECOLOGY	SCIE	2.1	3	2.3	3	0.2	9.52%	Unchanged
JMSE	ENGINEERING, MARINE	SCIE	2.8	2	3.2	2	0.4	14.29%	Unchanged
JMSE	ENGINEERING, OCEAN	SCIE	2.8	2	3.2	2	0.4	14.29%	Unchanged
JMSE	OCEANOGRAPHY	SCIE	2.8	2	3.2	2	0.4	14.29%	Unchanged
Water	ENVIRONMENTAL SCIENCES	SCIE	3	3	3.5	3	0.5	16.67%	Unchanged
Water	WATER RESOURCES	SCIE	3	2	3.5	2	0.5	16.67%	Unchanged
Conservation	BIODIVERSITY CONSERVATION	ESCI	1.9	2	1.9	3	0	0.00%	Downgraded
Conservation	ECOLOGY	ESCI	1.9	3	1.9	3	0	0.00%	Unchanged
Conservation	ENVIRONMENTAL SCIENCES	ESCI	1.9	3	1.9	4	0	0.00%	Downgraded
Ecologies	ECOLOGY	ESCI	1.9	3	2.9	2	1	52.63%	Upgraded
Hydrology	WATER RESOURCES	ESCI	3.2	2	3.1	2	-0.1	-3.13%	Unchanged
Oceans	MARINE & FRESHWATER BIOLOG	ESCI	1.6	2	2.5	2	0.9	56.25%	Unchanged
Oceans	OCEANOGRAPHY	ESCI	1.6	3	2.5	2	0.9	56.25%	Upgraded

Publication number and Speed

	MPT						
Journal	2026-01	2026-02	2026-03	2026-04	2026-05	2026-06	Trends
Coasts	101	60	81	118	90	69	
Conservation	80	87	80.5	57	72.5	62	
Diversity	38	36	35	34	38	37	
Ecologies	69.5	52.5	40.5	43	53	51	
Hydrology	47	42	41	47	56.5	44	
JMSE	35	35	35	33	35	36	
Limnological Review	31	41	37	62.5	44	49	
Oceans	69	101	106	93	66	55	
Water	44	42	41	40.5	42.5	45	



AI Framework: Capabilities & Applications

Journal Overlapping

Identify journal overlap and explore emerging topics.

DataHub + Superset

Central data warehouse powering MDPI AI. Superset delivers interactive insights.

Insight

Article Similarity

Search for semantically related articles.

Journal Finder

Find the most suitable journal to publish using semantic text search.

Finder 2

AI-based scholar discovery platform.

Matching

Ethicality

AI assistant to detect ethical misconduct in submissions and publications.

Cite Lens

Detect inappropriate or manipulative citation practices.

Risk Control

Layout Assistant

Toolset for manuscript layout assistance.

Guide Lens

AI-powered assistant for answering editorial questions based on guidelines.

Execution Support



Content Discoverability

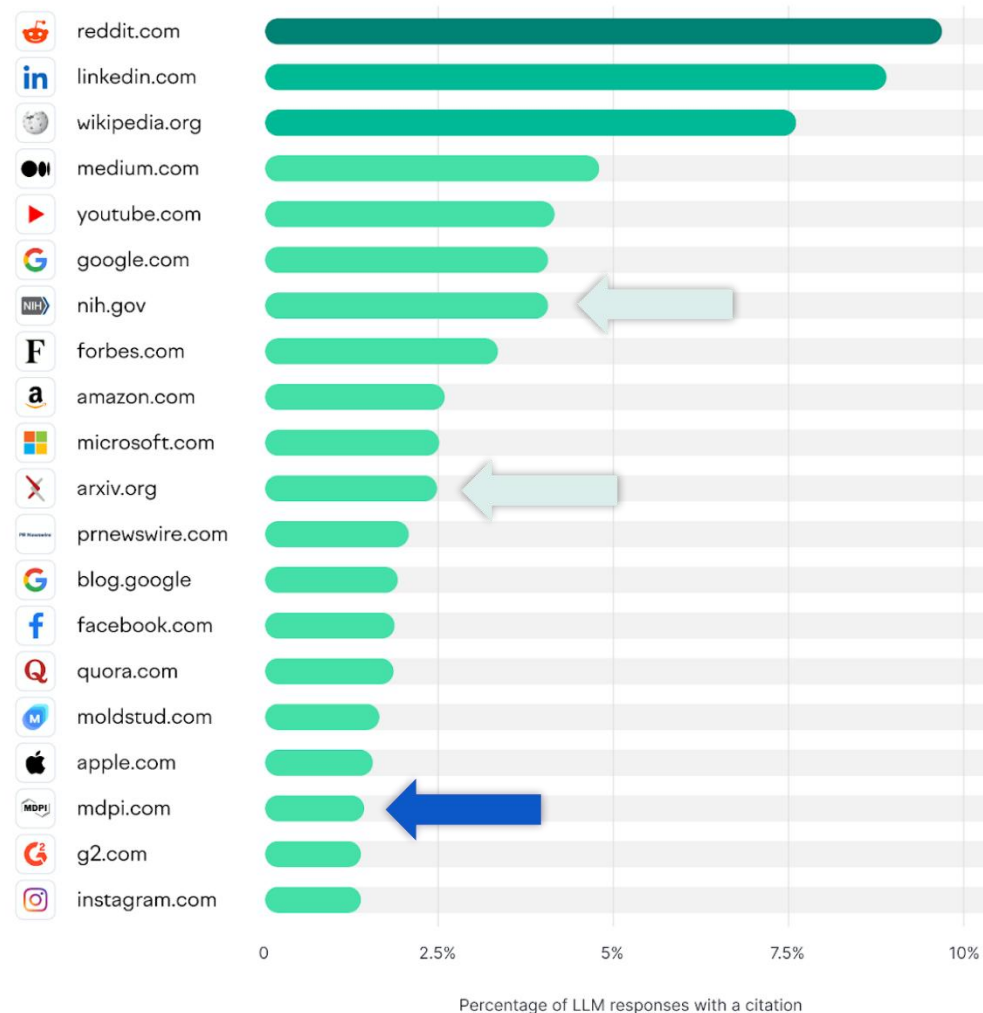
- Structured content framework at scale across millions of pages.
- Standardized, machine-readable metadata for scholarly content.
- Efficient access and indexing for search engines and AI systems.
- Enhanced AI understanding through advanced technologies.
- Continuous monitoring of visibility across AI platforms.

By continuously optimizing content structure and technical accessibility, MDPI supports reliable and efficient indexing and understanding by search engines and AI systems.

As of 2025, MDPI.com has become among the most frequently cited and widely influential sources across major global AI platforms, with impact extending beyond academia into broader societal and policy contexts.



Top Cited Domains on LLMs (ChatGPT, Google AI Mode, Perplexity): October 2025



Based on a Semrush study of 230K prompts conducted in October 2025

Production Services

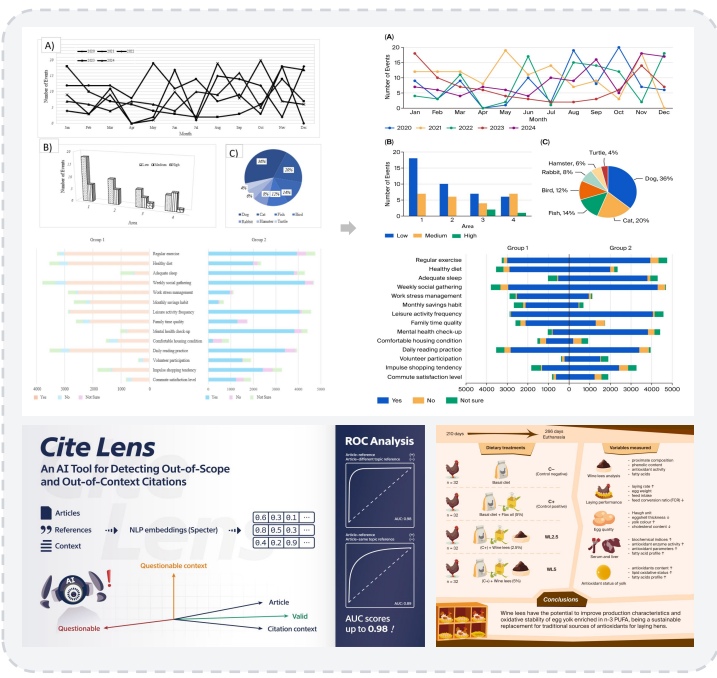
Manuscript Production

Delivering quality and freeing time through layout editing, English language editing, and XML/PDF conversion.



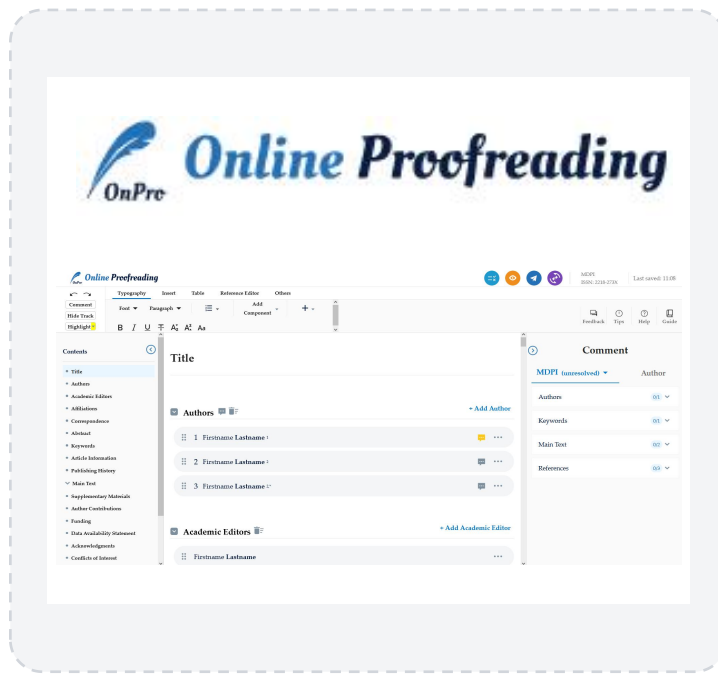
Scientific Visual Design

Elevating brand identity with figure and graphical abstract designs.



Online Proofreading

Embracing a smart workflow that features real-time collaboration, full traceability, automatic reference revision, and revision monitoring.



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Series

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Sciform (conference)

Sci**forum**

JAMS (publishing platform)

 JAMS

SciProfiles

 SciProfiles

Author Services

AUTHORservices

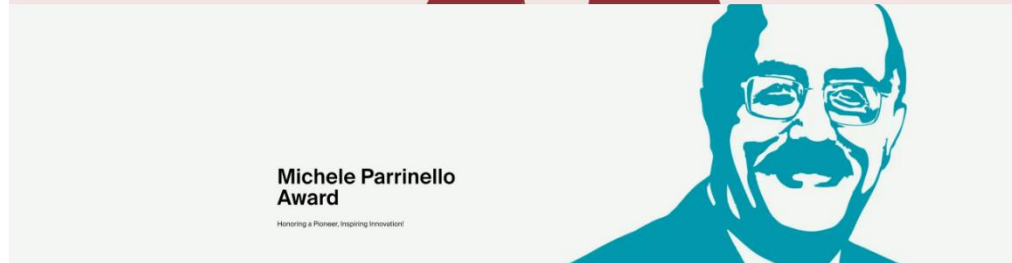
Encyclopedia

 Encyclopedia

Supporting the Scholarly Community

- With authorization from Professors [Tu Youyou](#) and [Michele Parrinello](#) themselves, and from the families of the late Professors [Tang Youqi](#) and [Zhu Yingguo](#), MDPI has established the above-named awards.
- Top 1000 Reviewers Awards, the World Sustainability Award, and the Emerging Sustainability Leader Award.
- In 2025, MDPI award funding surpassing 1.2 million CHF.

Award Type	Awards Presented
Outstanding Reviewer Award	184
Best Paper Award	143
Travel Award	83
Young Investigator Award	70
Best PhD Thesis Award	59
Other	41



Conferences, Outreach & PhD Awards



Academic Publishing Workshops

In 2025, MDPI hosted over 400 academic publishing workshops at more than 200 institutions across 29 countries and regions and five continents.

MDPI Open Access Insights
Scientific Publishing Workshop
at Faculty of Engineering
Graduate Research
Symposium (FEGRS) 2025

19 August 2025
2:30 – 3:30 (MDT)

Venue: Edmonton,
Alberta, Canada

Speaker:
Mr. Carlo Cunanan

Speaker:
Ms. Charlie Cai

MDPI

UNIVERSITY OF ALBERTA



MDPI Open Access
MDPI Open Science
Insights: Academic
Publishing Workshop
with Nanyang
Technological University

23 September 2025
2:00–4:00 PM
The Arc, NTU Singapore

Amy Chan

Marijana Maric

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

MDPI

MDPI Open Access Insights
Scientific Publishing
Exchange at
Universitat Politècnica
de València (UPV)

26 June 2025,
12:30 – 14:00 (CEST)

Venue: Universitat
Politécnica de
València (UPV)

Speaker:
Dr. Enric Sayas

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UNIVERSITAT POLITÈCNICA DE VALÈNCIA



MDPI Open Access
Scientific Publishing
Exchange
with University
of Zaragoza

09 May 2025, 11:00–12:30
Involved journal: *Catalysts*

Dr. Jesús
García Cano

Universidad Zaragoza

MDPI



Key Figures

25 Offices in 13 Countries

500+ Journals

1000+ Institutional Partners

200+ Global Society Partners

8000+ Global Staff

–Switzerland (Basel)

–USA (Philadelphia)

–Canada (Toronto)

–UK (Manchester)

–Spain (Barcelona)

–China (Beijing, Wuhan, Tianjin, Nanjing, Dalian, Chengdu, Hong Kong, Shenzhen, Shanghai)

–Singapore (Singapore)

–Japan (Tokyo)

–Korea (Seoul)

–Poland (Krakow)

–Romania (Cluj-Napoca, Bucharest)

–Serbia (Belgrade, Novi Sad)

–Thailand (Bangkok)







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谢谢!

