frontiers

Annual report
2025

Contents

2025 in numbers

85,345
articles published this year

4.6
average citations per article

5th
most cited publisher

1.4 billion
article views and downloads this year

222
journals spanning 1,700 specialties

95% rated our articles as good or excellent

94% of authors rated their peer review experience as good or excellent
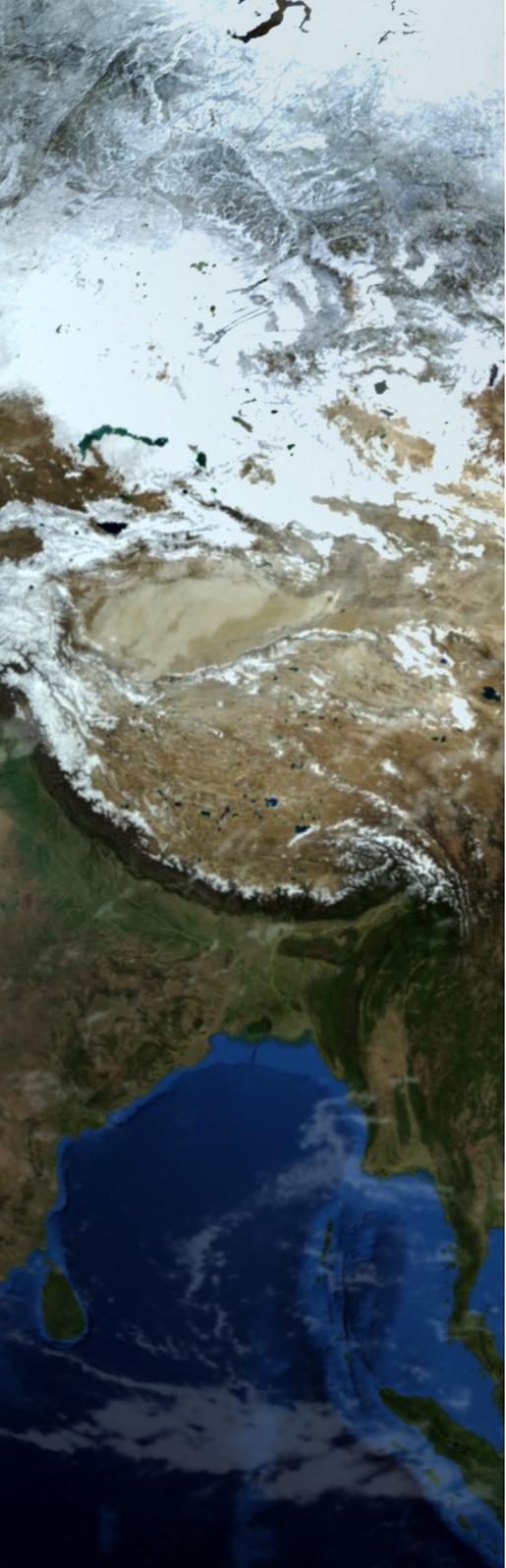
3.4 million published authors

740+ institutions with publishing agreements

$3 million awarded by Frontiers Planet Prize

Driving change through
open, trusted science

SCIENCE IS ENTERING A DEFINING ERA. The world is asking for broader access, more transparency, and stronger confidence in research – at the same time as global challenges demand fast, urgent solutions.

At Frontiers, we see this as an opportunity, not a trade-off. When science is open, rigorous, and responsibly accelerated, it becomes the most powerful tool we have to drive progress for people and planet.

In 2025, our focus was on strengthening the foundations that make this possible. We doubled down on what matters most: quality, transparency, and trust. These principles sit at the heart of our mission – to make science open, trusted, and effective in delivering real-world impact.

Innovating with AI for the next era of science

Artificial intelligence and agentic systems will shape how the next generation of scientific breakthroughs are made and shared. Used well, they increase efficiency, improve equity, and unlock insights at unprecedented speed. Used responsibly, they also strengthen transparency and confidence in research.

Our whitepaper, Unlocking AI's untapped potential: responsible innovation in research publishing, released in December, explored this theme and set out our commitment to responsible and ethical AI development.

In early 2025 we also launched Frontiers FAIR² Data Management, the first AI-powered data management service designed specifically for research. It uses AI to curate and structure data to be findable, accessible, interoperable, and reusable - so that datasets can form a lasting foundation that will enable future scientific breakthroughs.

We also advanced our AI Review Assistant, AIRA, a member of the team since 2018. This year, we integrated AIRA with industry-leading fraud screening tools, significantly strengthening our multilayered defenses against organized research fraud – a challenge faced by the whole publishing industry.

Delivering quality at scale

At Frontiers, quality is not just a checkpoint. It is a culture. We are one of the world's largest research publishers, and our growth is grounded in quality. We have built a model that enables rigorous science to thrive at scale, powered by a three-pronged approach to research integrity: deep in-house expertise, independent editorial boards, and the responsible use of AI.

This approach delivers results. In 2025, 121 Frontiers journals held a Journal Impact Factor, 133 held a CiteScore, Frontiers is the 5th most cited publisher, and 95% of researchers visiting our website rated the quality of our articles as good or excellent. These outcomes reflect not only strong performance, but a system designed to earn and sustain trust.

Putting open science on the global stage

Every effective climate policy, medical breakthrough, and advance in sustainable technologies relies on a foundation of open, trusted research. Making high-quality, trusted research openly available is the single most effective way to speed up innovation and prosperity worldwide.

In 2025, we continued to bring this message to global decision-makers through our partnership with the World Economic Forum, ensuring that scientific evidence is closer to those shaping policy and action.

We built on this momentum in 2026 with the launch of Frontiers Science House. Held at the World Economic Forum Annual Meeting 2026 in January, this new space placed transformative science at the heart of the global agenda.

Watch: Kamila explains the two core objectives for Frontiers Science House

Over an incredible week of sessions with speakers from industry, academia, and policy, we demonstrated that open science is the simplest way to accelerate the innovation cycle, positively impacting business, policy, and society.

The Frontiers Planet Prize awards ceremony is always one of the most inspirational moments of the year, celebrating researchers whose science offers scalable solutions to protect planetary health.

In 2025, three international champions were awarded USD 3 million collectively to accelerate the real-world impact of their work. Former champions have gone on to share their work at leading global forums, including COP30 and the Falling Walls Science Summit, accelerating impact far beyond academia.

The future of scientific research

The progress captured in this report points toward a future in which:

- research data and results are widely and immediately accessible
- AI connects insights, reveals patterns, and accelerates discovery responsibly
- integrity is actively protected by shared standards and shared technology
- science has a stronger voice in shaping decisions about our planet's future.

Science is our most powerful tool to address the challenges of our time. At Frontiers, we remain committed to strengthening the systems that support it, so that knowledge can move faster, travel further, and deliver lasting impact.

Dr Kamila Markram
CEO and Co-founder

frontiers
Science House

Kamila Markram
CEO, Frontiers

Open science
for healthy liv
on a health
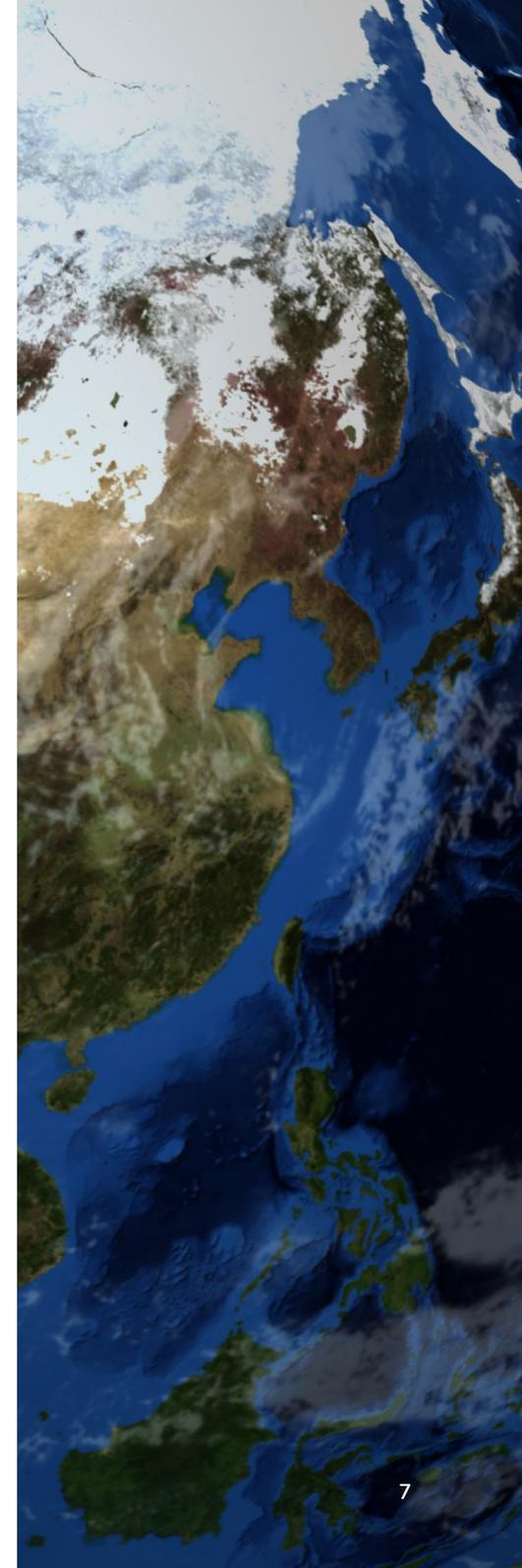
Frontiers Science House: changing how science impacts business, policy, and society

50+ sessions

168 speakers

1,200+ attendees

In January, Frontiers put open science at the center of global conversation at the World Economic Forum Annual Meeting 2026 in Davos.

The idea was sparked at Davos 2025, where one absence became increasingly clear: while the world's most urgent challenges were being debated, a strong presence of science itself was missing from the discussion.

One year later Frontiers addressed that gap by launching Frontiers Science House with two clear objectives:

- Give outstanding scientists a genuine seat at the decision-making table
- Show that open science is the simplest and most cost-effective way to accelerate innovation and economic growth

The program spanned five days, each one focusing on a specific theme aligned to the most pressing frontiers of knowledge.

In vibrant, high-energy sessions, Nobel laureates, innovators, policymakers, and business leaders came together with a shared purpose.

Discussions ranged from fusion and quantum computing to AI in healthcare and the space revolution. Diverse in scope, every conversation was anchored in scientific evidence and the principles of openness and collaboration.

The response confirmed a clear enthusiasm for science to play a central role in global debate. Frontiers Science House demonstrated that open and transparent science is an accelerator for informed policy, responsible investment, and long-term progress.

Michiel Scheffer
President, European Innovation Council Board,
European Commission
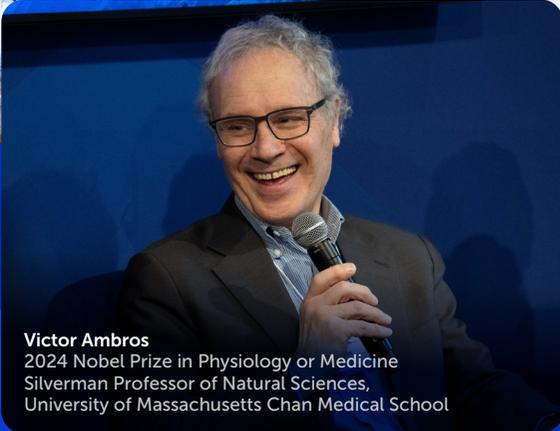
Victor Ambros
2024 Nobel Prize in Physiology or Medicine
Silverman Professor of Natural Sciences,
University of Massachusetts Chan Medical School

Jimmy Wales
Founder, Wikipedia

Maria Leptin
President, European Research Council

"I'm really grateful to Frontiers Science House for creating this red hot center of scientific knowledge, expertise, and passion in Davos."

Jane Metcalfe
Executive Chair,
Human Immunome Project

"The issues of trust, transparency, and collaboration covered by Frontiers are important for us. Microsoft wants to combat misinformation by preserving transparency and openness."

Lisa Monaco
President, Microsoft Global Affairs

"I want to congratulate Frontiers for the sessions you are running at Science House. Trust in science, the topic for the opening plenary, resonates well with us at Wellcome."

John-Arne Røttingen
CEO, Wellcome

Day 1
Open science

Watch the video

Open science for global challenges

Setting the scene for Frontiers Science House, Kamila and Henry Markram and a panel of speakers from partners including Novartis, Wellcome, and Microsoft, discussed how science can help tackle global challenges if the right partnerships and knowledge-sharing frameworks are in place.

Day 2
Human health

Watch the video

Breakthrough innovation: redefining the future of medicine

How can advances in data, AI, and therapeutic platforms transform healthcare? With speakers Vas Narasimhan, Novartis, James Manyika, Google, Andrew McAfee, MIT Sloan School of Management, and Fareed Zakaria, CNN.

Day 3
Planetary health

Watch the video

Experts at odds: debating geoengineering

Paul Alivisatos, University of Chicago, Martin Siegert, University of Exeter, Gail Whiteman, University of Exeter Business School, and Adrian Monck, 7 Things, discussed what should be permissible in the race to limit global warming.

Day 4
Technology

Watch the video
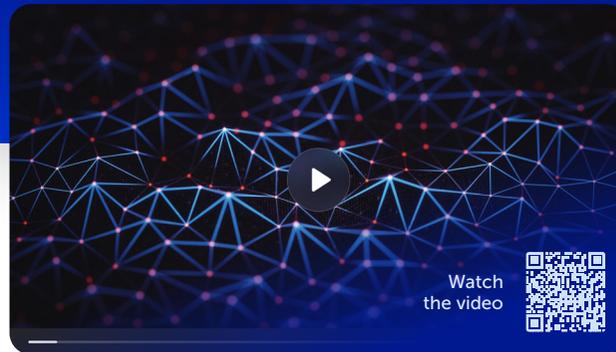
Conquering quantum's next frontier

With speakers from CERN, UNESCO, NVIDIA, Microsoft, University of California, and University of Calgary, this session looked at what may happen when quantum technologies reshape science and industry as profoundly as AI has.

Day 5
Governance

Watch the video

Restoring multilateralism with science diplomacy

Developed in partnership with Geneva Science and Diplomacy Anticipator (GESDA) and European Space Policy Institute (ESPI), this session explored concrete policy levers that make science a verifiable tool for conflict prevention and sustainable global security.

Our publishing program

Our unique three-tiered publishing program places researchers at the center, delivering a first-class experience and ensuring open science publishing is available to more research communities.

Leading journals and specialty sections

As of 2025, Frontiers publishes 222 active, community-driven journals spanning more than 1,700 academic specialty sections, many of which directly support research aligned with the United Nations Sustainable Development Goals.

Our specialty section model allows journals to evolve alongside their fields. Field Chief Editors can launch new sections as disciplines emerge and converge, while scaling editorial boards to meet growing demand. This structure ensures that peer review remains rigorous, efficient, and led by active experts, even as journals expand in scope and impact.

frontiers

Frontiers in
Aging Neuroscience

frontiers

Frontiers in
Endocrinology

frontiers

Frontiers in
Cellular and Infection
Microbiology

frontiers

Frontiers in
Marine Science

frontiers

Frontiers in
Neuroscience

frontiers

Frontiers in
Immunology
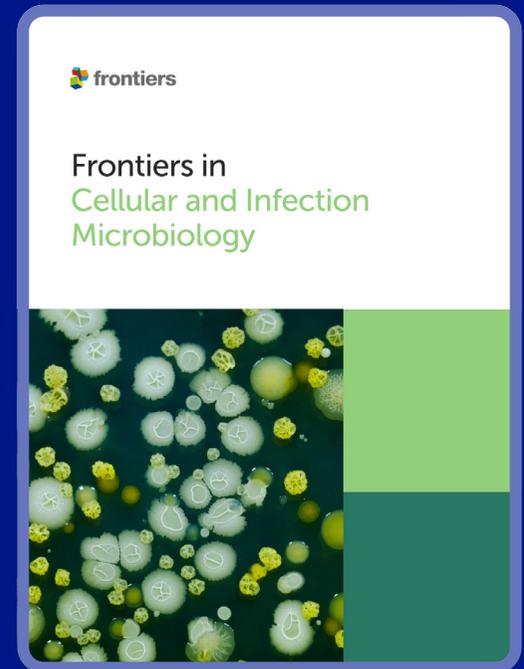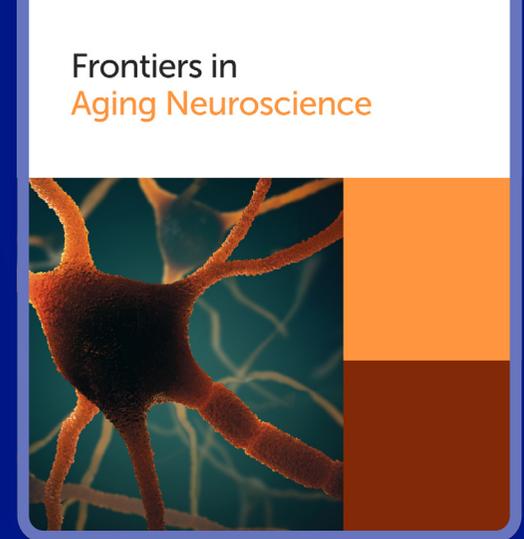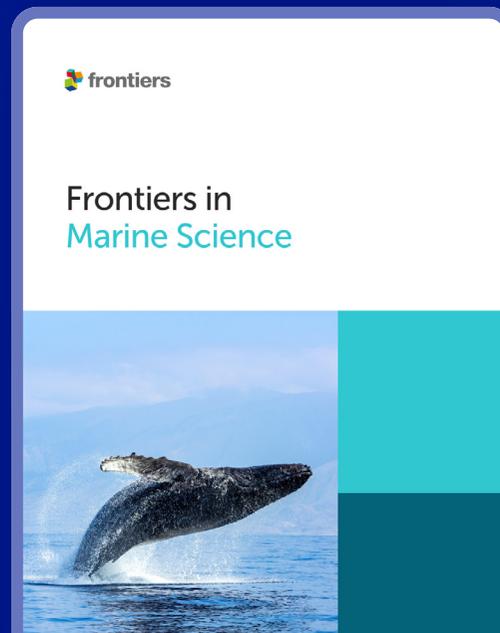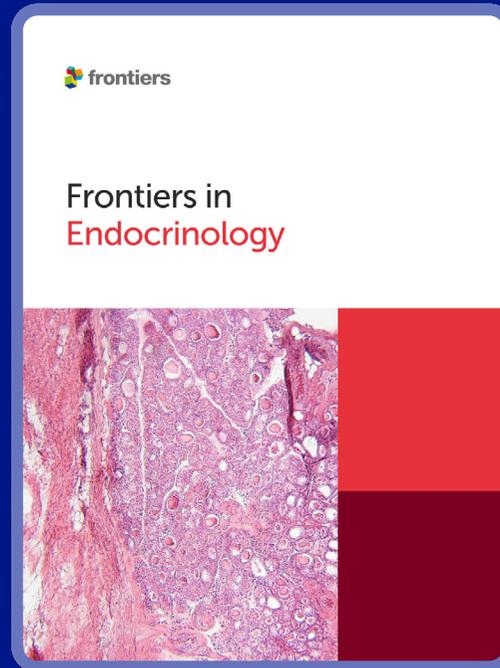
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Frontiers in
Cell and Developmental
Biology
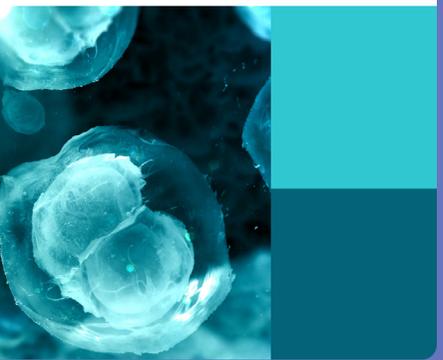
222
community-driven
journals

1,700+
specialty sections

2007-2012

Neuroscience, JIF 3.2
Hum. Neuroscience, JIF 2.7
Aging Neuroscience, JIF 4.5
Behav. Neuroscience, JIF 2.9
Cell. Neuroscience, JIF 4.0
Comp.l Neuroscience, JIF 2.3
Mol. Neuroscience, JIF 3.8
Neural Circuits, JIF 3.0
Neuroanatomy, JIF 2.3
Neuroinformatics, JIF 2.5
Neurorobotics, JIF 2.8
Integr. Neuroscience, JIF 2.9
Synap. Neuroscience, JIF 4.1
Syst. Neuroscience, JIF 3.5
Psychiatry, JIF 3.2
Psychology, JIF 2.9
Neurology, JIF 2.8
Oncology, JIF 3.3
Physiology, JIF 3.4
Pharmacology, JIF 4.8
Plant Science, JIF 4.8
Microbiology, JIF 4.5
Cell. Infect. Microbiol, JIF 4.8
Immunology, JIF 5.9
Endocrinology, JIF 4.6
Genetics, JIF 2.8

2013-2016

Young Minds
Pediatrics, JIF 2.0
Chemistry, JIF 4.2
Public Health, JIF 3.4
Bio. & Biotech., JIF 4.8
Physics, JIF 2.1
Energy Research, JIF 2.4
Earth Science, JIF 2.0
Environ. Science, JIF 3.7
Eco. and Evo, JIF 2.6
Cell & Dev. Biology, JIF 4.3
Marine Science, JIF 3.0
Nutrition, JIF 5.1
Surgery, JIF 1.8
Cardio. Medicine, JIF 2.9
Veterinary Science, JIF 2.9
Molecular Biosci

Medicine, JIF 3.0
Materials, JIF 2.9
Ast. & Space Sci, JIF 2.6
Robotics and AI, JIF 3.0
Built Environment, JIF 2.7
Mechanical Engineering, JIF 3.0
Res. Metrics & Analytics, JIF 1.6
Education, JIF 1.9
Communication, JIF 1.6
Sociology, JIF 2.2
Applied Math. and Statistics, JIF 1.5

2017-2019

Sust. Food Systems, JIF 3.1
For. & Gl. Change, JIF 3.2
Big Data, JIF 2.3
Blockchain, JIF 2.4
Artificial Intelligence, JIF 4.7
Water, JIF 2.8
Sports and Active Living, JIF 2.6
Sustainable Cities, JIF 2.1
Digital Health, JIF 3.8
Chemical Engineering, JIF 2.6
Nanotechnology, JIF 3.8
Human Dynamics, JIF 1.3
Medical Technology, JIF 3.8
Toxicology, JIF 4.6
Political Science, JIF 1.9
Agronomy, JIF 4.1
Climate, JIF 4.1
Computer Science, JIF 2.7

2020-2021

Adv. Drug. Alc. Res.
Aerosp. Res. Comm.
Aging, JIF 4.3
Allergy, JIF 3.1
Analytical Sci., JIF 1.9
Animal Science, JIF 2.4
Bioinformatics, JIF 3.9
Biomaterials Sci.
Catalysis
Cl. Diabetes & Healthcare, JIF 2.2
Comm. & Networks, JIF 2.4
Conservation Sci., JIF 1.8

Control Engineering
Dental Medicine, JIF 1.8
Drug Delivery
Drug Discovery
Drug Safety & Reg.
Dystonia
Electronics, JIF 2.1
Electronic Materials
Env. Chemistry, JIF 1.9
Epidemiology
Food Sci. & Tech.
Fungal Biology, JIF 3.8
Future Transportation, JIF 1.5
Gastroenterology
Genome Editing, JIF 4.4
Global Women's Health, JIF 2.4
Health Services, JIF 2.7
Insect Science, JIF 3.0
Int. J. Pub. Health, JIF 2.4
J. Abd. Wall. Surg.
Manufacturing Tech.
Molecular Medicine
Nephrology
Network Physiology, JIF 3.0
Neuroergonomics, JIF 1.9
Neuroimaging
Nuclear Medicine, JIF 1.4
Ophthalmology, JIF 0.9
Oral Health, JIF 3.1
Pain Research, JIF 2.7
Path. & Onc. Res., JIF 2.3
Photonics
Public Health Reviews, JIF 4.1
Radiology, JIF 2.3
Rehabilitation Sciences, JIF 1.9
Remote Sensing, JIF 3.7
Reproductive Health, JIF 2.9
Sensors
Signal Processing, JIF 2.6
Soft Matter
Soil Science, JIF 3.7
Spanish J. Soil Sci, JIF 2.0
Space Tech., JIF 1.3
Sustainability, JIF 2.9
Systems Biology, JIF 2.3
Thermal Engineering
Tropical Diseases

Urology, JIF 1.1
Virology, JIF 1.6
Virtual Reality, JIF 3.6

2022-2025

Frontiers in Science
Acoustics
Acta Virologica, JIF 0.8
Adolescent Medicine
Aerospace Engineering
Amphibian and Reptile Science
Anesthesiology
Antennas and Propagation
Antibiotics
Arachnid Science
Audiology and Otology
Aquaculture
Bacteriology
Batteries and Electrochemistry
Bee Science
Behavioral Economics
Bird Science
British J. Bio. Sci, JIF 4.6
Carbon
Cell Death
Chemical Biology
Child and Adolescent Psychiatry
Coatings, Dyes and Int. Eng.
Cognition
Complex Systems
Dementia
Developmental Psychology
Disaster and Emergency Medicine
Energy Efficiency
Environmental Archaeology
Environmental Economics
Environmental Engineering
Environmental Health
Epigenetics and Epigenomics
Ethology
Eur. J. Cult. Man. & Pol, JIF 0.3
Fish Science
Freshwater Science
Fuels
Geochemistry
Hematology

High Performance Computing
Horticulture
Imaging
Industrial Engineering
Industrial Microbiology
The Internet of Things
Lab on a Chip Technologies
Language Sciences
Lupus
Malaria
Mammal Science
Medical Engineering
Membrane Science & Technology
Metals and Alloys
Microbiomes
Natural Products
Nuclear Engineering
Oncology Reviews, JIF 5.2
Organizational Psychology
Parasitology
Plant Physiology
Protistology
J. Phar & Pharm. Sci, JIF 4.3
Quantum Sci. & Tech.
RNA Research
Sleep
Smart Grids
Social Psychology
Stroke
Sustainable Energy Policy
Sustainable Res. Mgmt.
Sustainable Tourism
Synthetic Biology
Transplantation
Transplant International, JIF 3.0
Tuberculosis
Adv. Opt. Tech, JIF 3.0
J Cutan Immunol All, JIF 0.9
Pastoralism, JIF 2.9
Exp. Biol. Med., JIF 2.7
Biophysics
Cancer Control & Society
Detector Science & Tech
Musculoskeletal Disorders
Ocean Sustainability
Photobiology
Acta Biochimica Polonica, JIF 1.7

Data: Frontiers, December 2025 (2024 Journal Impact Factors)

SUSTAINABLE DEVELOPMENT GOALS

Our journals support Sustainable Development Goals

From sustainable cities to water, our journals support the UN SDGs, an urgent call by all countries to safeguard peace and prosperity for people and the planet.

This echoes our own mission established in 2007 – making science open to accelerate the solutions we need for healthy lives on a healthy planet.

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Frontiers in Energy Efficiency

7 8 11

frontiers

Frontiers in Neurology

3 9

frontiers

Frontiers in Developmental Psychology

Ocean Engineering

6 10 14

1 2 13

1 6 8

frontiers

Frontiers in
Bioengineering
and Biotechnology

3 9

6 11 14

frontiers

Frontiers in
Wind Energy

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ctrochemistry

7 9 11

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Frontiers in
Earth Observation
and Land Monitoring

9 10 11

ntiers in
crobiology
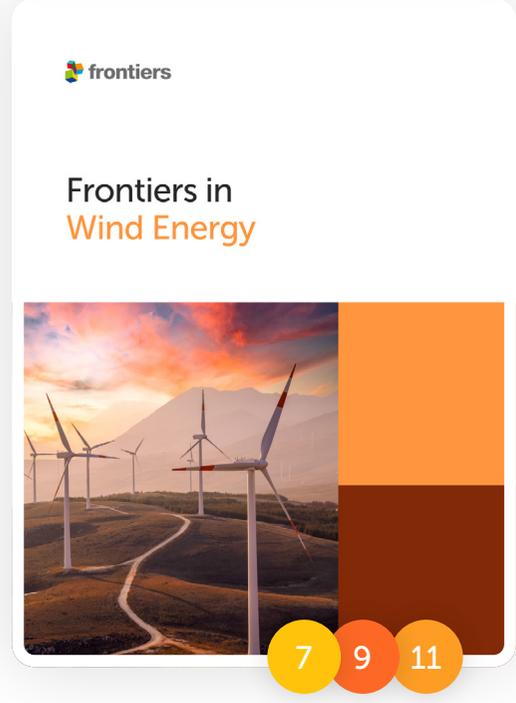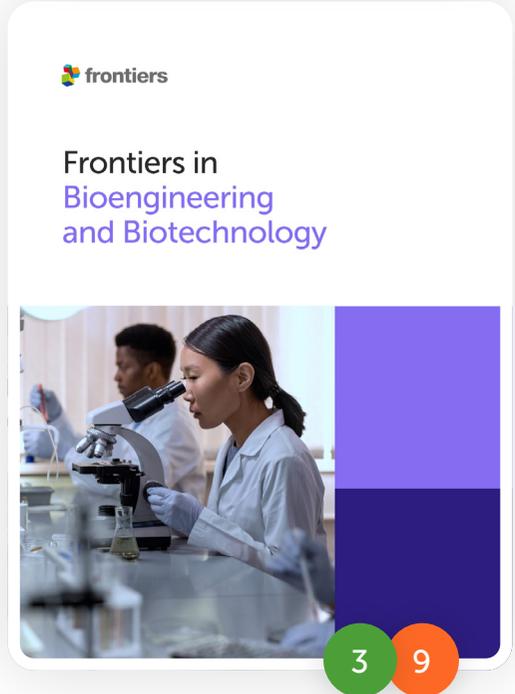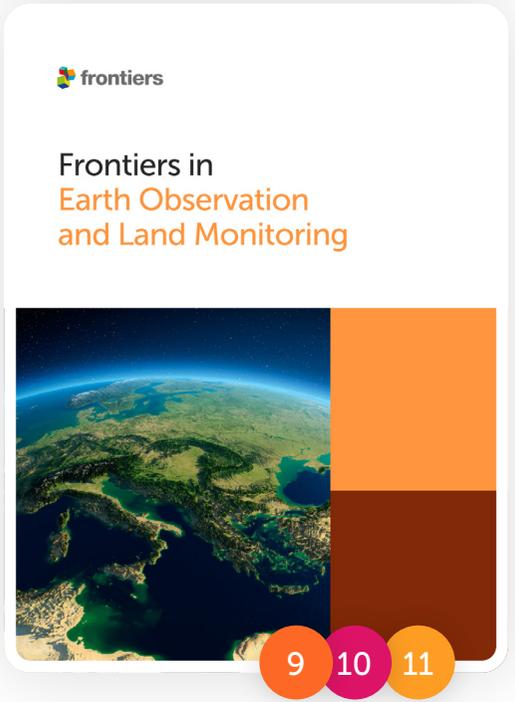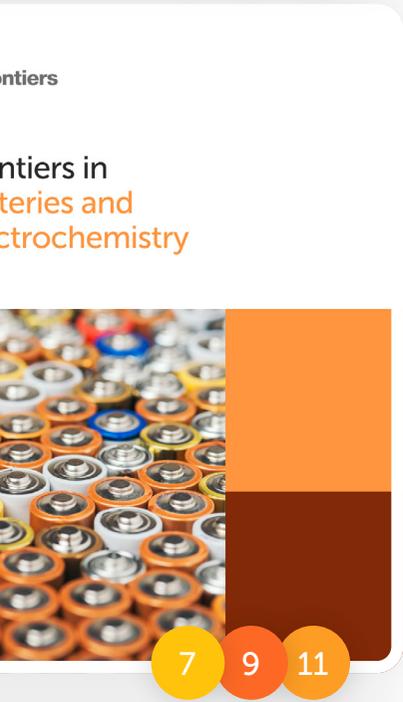
Transformational science for healthy lives on a healthy planet

As Frontiers' flagship journal, Frontiers in Science showcases research that accelerates solutions to global challenges in human and planetary health. It engages academic communities, policy stakeholders, and wider society with high-quality transformational science.

1,000+
citations in three years

Frontiers in Science reached a major milestone in 2025, surpassing 1,000 citations in fewer than three years, a powerful signal of its rapid influence and scientific relevance. By the end of 2025, the journal had received 1,112 citations across 110 articles spanning 29 interdisciplinary research hubs.

3.3 million
article views

337,000+
article downloads

1,112
citations

frontiers

Frontiers in
Science
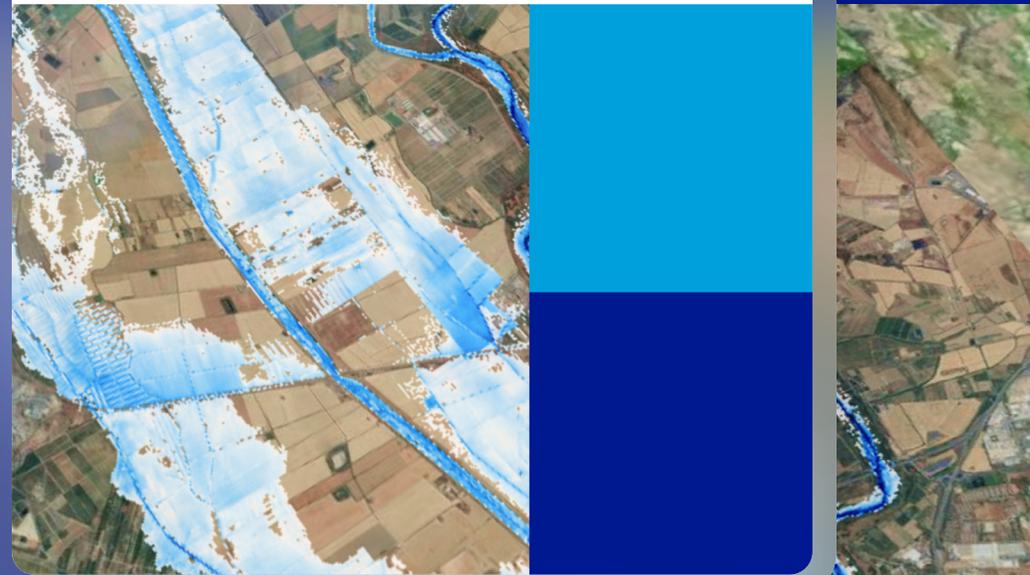
Since its launch in 2023, the journal has achieved
3.3 million views and 337,000 downloads.
Research published in Frontiers in Science has attracted
significant media attention, with 119 mentions in top-tier
outlets and 1,454 mentions across all media.

Beyond publication, the research is amplified through
online deep dive events, bringing scientists together
to explore findings in depth. These sessions are attended
and viewed by thousands of people in the wider scientific
community, helping translate insights into action.

BBC **CNN** **Le Monde**

The Atlantic **NewScientist**

"The work that Frontiers in Science and the
authors have done has had a phenomenal
influence, which has translated to immediate
impact in a governance setting. Our paper
was released in 2025 and acted on by the
Antarctic Treaty Consultative Parties shortly
thereafter: a timely and useful outcome."

Steven Chown
Monash University Australia
Frontiers in Science author

Find out
more

The obesity-climate
change connection

Rising obesity rates and climate change
are viewed as separate global crises,
yet both are shaped by industrial food
systems that promote overconsumption
and intensify environmental pressures.
Could reforming our food environments
address these challenges?

Polar geoengineering:
risks and realities

Earth's coldest regions help regulate
the global climate, but climate
change-driven warming is destabilizing
polar ice at alarming rates. Could
large-scale geoengineering proposals
protect against ice-sheet loss and slow
down sea-level rise?

Find out
more

Find out
more

Toward next-generation
artificial intelligence hardware

As AI expands and becomes more
complex, today's computer architectures
are struggling to keep up, wasting time
and energy shuttling data between
separate memory and processing chips.
Can a new generation of hardware
overcome these physical limits?

Frontiers' Research Topics:
shining a spotlight on your research

Frontiers' Research Topics are open, collaborative article collections focused on an emerging research theme.

Defined and led by expert researchers, they bring together communities to write, review, and publish new research around a shared interest – sparking conversation and stimulating future collaboration.

While Research Topics are curated by expert editors, they remain open to the wider research community, attracting contributions from researchers with aligned interests.

All articles are subject to Frontiers' rigorous peer review standards, ensuring quality, consistency, and trust across every collection.

"The streamlined process for developing research themes has made it possible to bring work together around important emerging topics in a faster, more inclusive and agile way. This has enabled us to create a successful and truly global journal that makes an important and unique contribution to our field."

James Evans
The University of Manchester
Field Chief Editor, Frontiers in Sustainable Cities
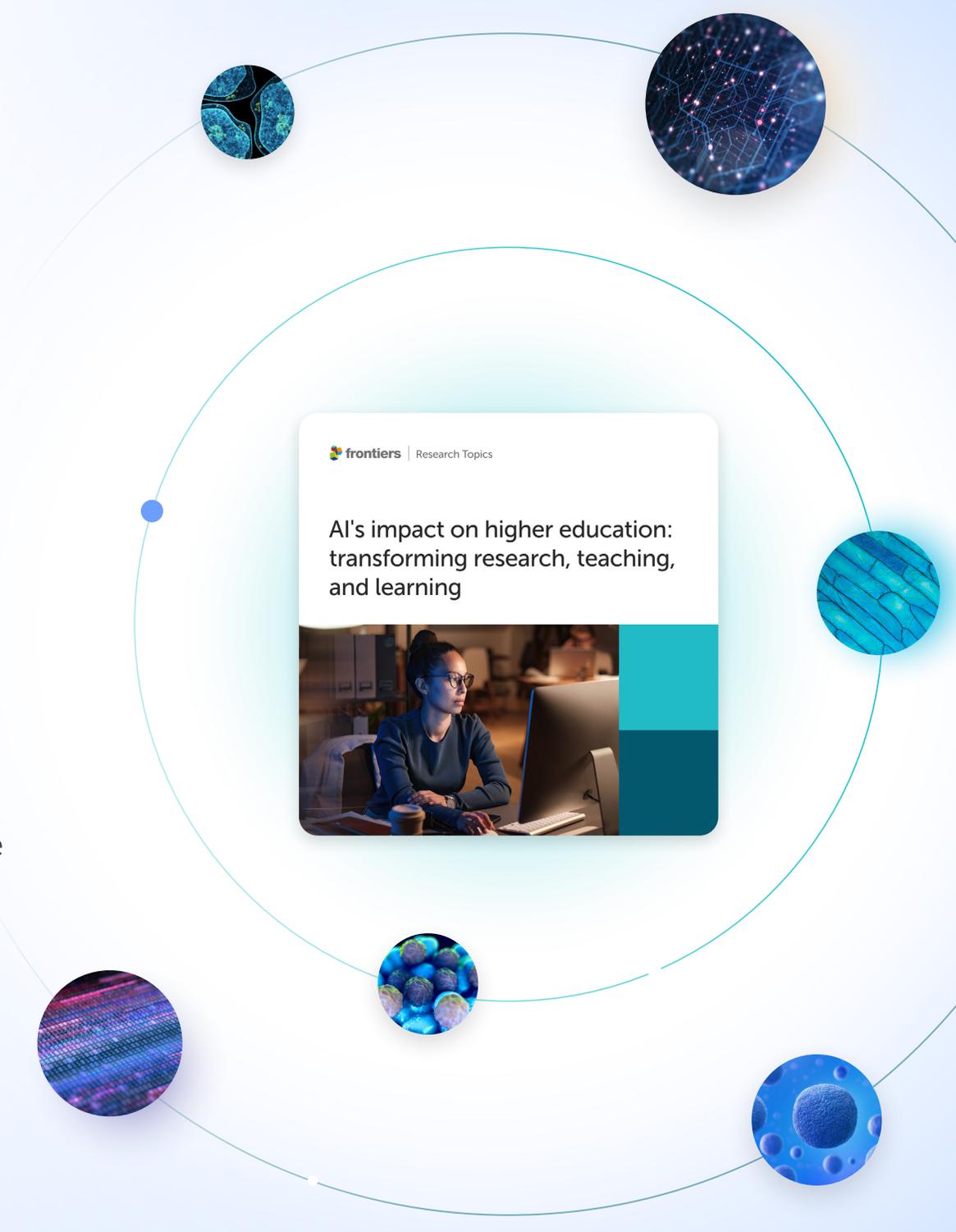
frontiers | Research Topics

AI's impact on higher education: transforming research, teaching, and learning

Exploring mental health in vulnerable populations in developing countries

Sheds light on promoting mental health among vulnerable populations, addressing the dynamic and complex relationship between the mental health of specific vulnerable groups.

152k views | 41 articles

Find out more

Formation of immunological niches in tumor microenvironments: mechanisms and therapeutic potential

Deepens our understanding of the formation and function of immunological niches within the tumor microenvironment and their role in cancer progression and immune evasion.

109k views | 30 articles

Find out more

Probiotics for Global Health: Advances, Applications and Challenges

Explores the role of probiotics in promoting global health and contributing to the accomplishment of Sustainable Development Goal 3.

225k views | 32 articles

Find out more

FAIR² Data Management:
an intelligent way to organize, share, and publish data

Despite advances in open science, researchers still struggle with fragmented, inconsistently formatted data that is difficult to curate and reuse.

In 2025 we launched Frontiers FAIR² Data Management, a first-of-its-kind data management service that makes research data citable, reusable, and AI-ready.

By combining AI-assisted curation with FAIR principles, FAIR² strengthens data reproducibility, accelerates discovery, and ensures that high-quality data delivers real-world impact.

WHAT IS FAIR?

The first step in using or reusing datasets is to find them. FAIR data meets the principles of findability, accessibility, interoperability, and reusability.

FAIR² builds upon these principles by introducing AI-readiness and a structured, open specification ensuring data is optimized for modern computational research.

FAIR² Data Article

The FAIR² Data Article is a new article type that focuses exclusively on a single dataset rather than testing specific hypotheses. This new publication format ensures that high-value datasets receive the same recognition, visibility, and citation opportunities as traditional research articles while remaining accessible and reusable for the global research community.

The articles are peer-reviewed and citable. This ensures that datasets are rigorously assessed for quality, and it means that the work can achieve the impact it deserves, informing future research.

See FAIR² Data Articles in action

Marine biodiversity and environmental data: an AI-ready, open dataset from the long term Basque Country monitoring network

Abstract

This dataset provides 28 years of environmental monitoring data (1995-2023) from 51 stations in the estuaries and coastal areas of the Basque Country in the Bay of Biscay. C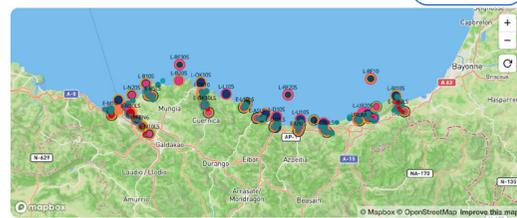overing 130 variables across water, sediments, and biota, it includes detailed records of phytoplankton, macroalgae, macroinvertebrates, and fish. Compiled in collaboration with the Basque Water Agency (URA), the dataset supports analysis of environmental responses to human pressures and management interventions, identifying patterns of environmental quality improvement within a context of natural variability. Provided in a FAIR² Data Package, the dataset is structured to ensure Findability, Accessibility, Interoperability, Reusability, and Artificial Intelligence-readiness, facilitated by structured metadata and Application Programming Interface access. This resource is intended for researchers and policymakers examining anthropogenic and natural influences on aquatic ecosystems, contributing to sustainable management, conservation practices, and alignment with European directives, including the Water Framework Directive.

Find out more

Structure-based prediction of SARS-CoV-2 variant properties: machine learning on mutational neighborhoods to predict the behavior of viral variants

Abstract

This dataset presents a structure-enriched resource of theoretical and empirical SARS-CoV-2 spike receptor-binding domain (RBD) variants, developed under the STAYAHEAD project for pandemic preparedness. It integrates large-scale in silico structure predictions with empirical biophysical measurements. The dataset includes 3,705 single-point Wuhan-Hu-1 RBD variants and 100 higher-order Omicron BA.1/BA.2 variants, annotated with AlphaFold2 and ESMFold metrics and Bio2Byte sequence-based predictors. Structural descriptors—RMSD, TM-score, pIDDT, solvent accessibility, hydrophobicity, aggregation propensity—are linked to ACE2 binding and expression data from deep mutational scanning. Provided as a FAIR² Data Package, it supports structure–function analysis, variant modeling, and responsible reuse in virology, structural biology, and computational protein science.
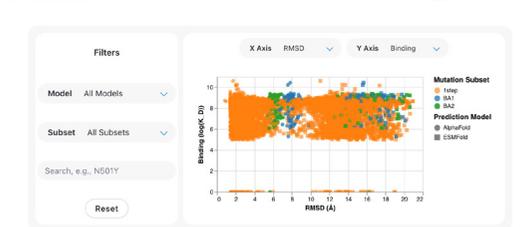
Find out more

Global waste sector dataset (1990−2050): scenario-based projections of generation, emissions, and socioeconomic drivers

Abstract

Strategy planning for global climate goals requires structured, multisectoral data linking environmental pressures with socioeconomic drivers across time and geography. However, internationally harmonized, machine-actionable datasets integrating waste generation, waste-related greenhouse gas (GHG) emissions, and socioeconomic indicators remain scarce. This study provides a harmonized, AI-ready dataset to support global analyses of municipal solid waste (MSW) and associated emissions. This FAIR² dataset provides historical (1990–2020) and forecasted (2021–2050) national-level data for 43 countries, covering MSW generation, CO_2, CH_4, and N_2O emissions, GDP per capita (PPP), and population. Forecasts were generated using an ensemble of fixed-effects regression models and artificial neural networks informed by economic and demographic trends. By linking MSW, emissions, and socioeconomic drivers within a standardized structure, the dataset enables analyses including benchmarking, equity assessments, and decoupling analysis. While limited to national aggregates and subject to scenario uncertainty, the dataset complies with FAIR² principles, supporting reuse and traceability.
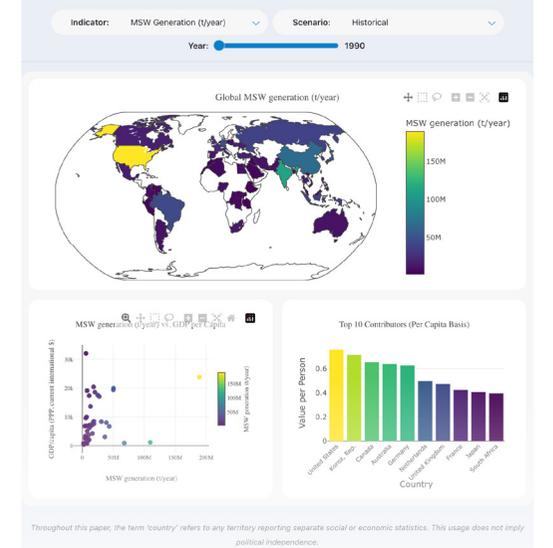
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Bibliosan Coordinator
IRCCS Policlinico San Matteo, PAVIA

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USD 52 million
fee support 2021-2025

10M	27M	37M	43M	52M
2021	2022	2023	2024	2025
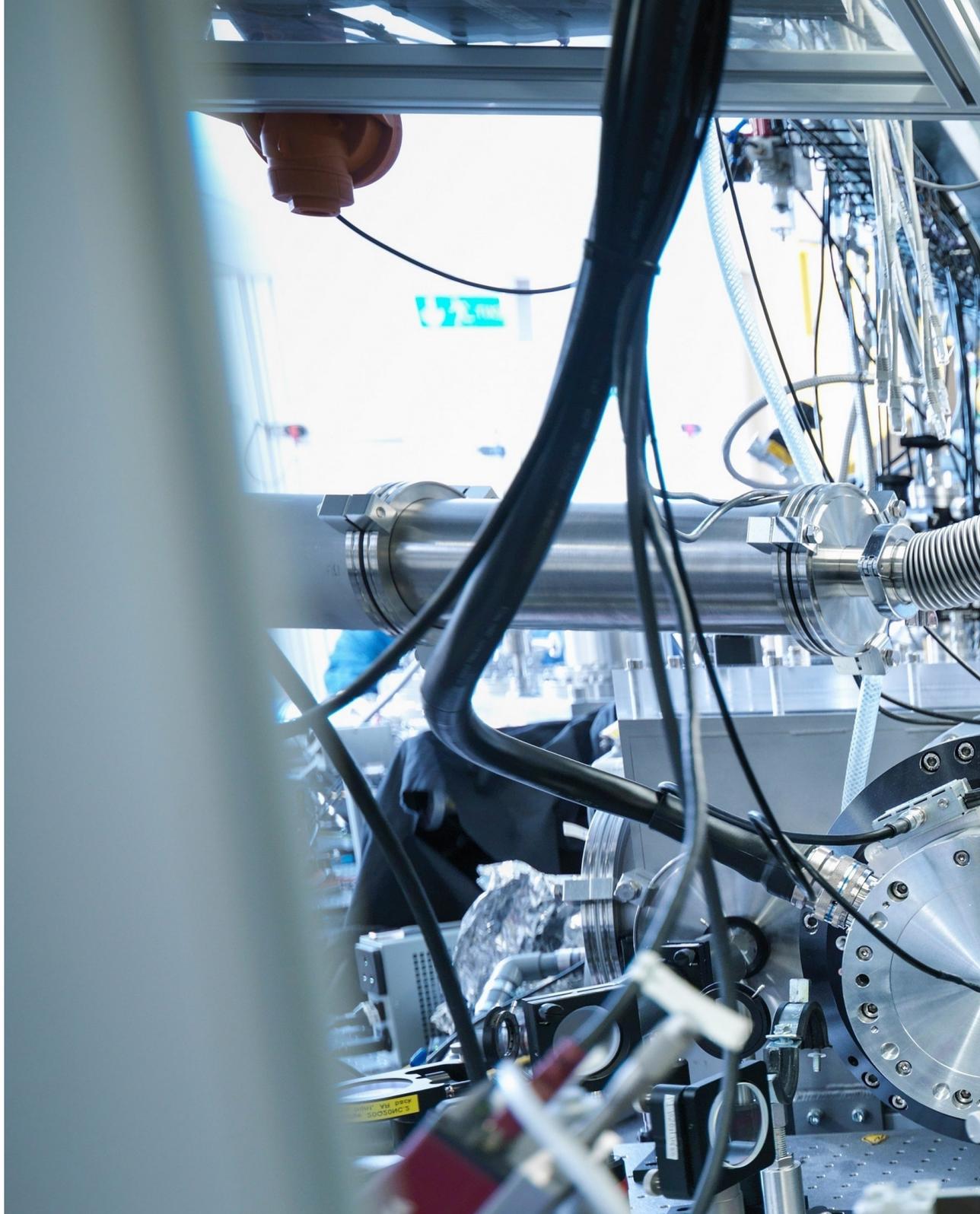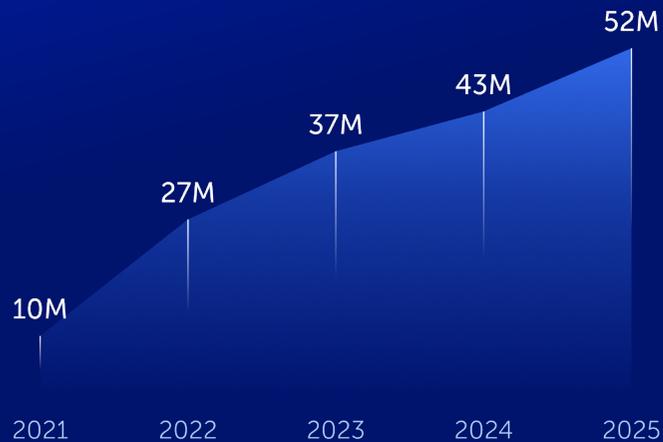
Our impact

Your research is making a difference.
We maximize its reach and impact
to accelerate scientific discovery.

Total citations
(per year)

Year	Value
2018	0.4M
2019	0.6M
2020	0.9M
2021	1.3M
2022	1.8M
2023	2.1M
2024	2.6M
2025	3.2M

Data source: Dimensions, March 2026

Article views and downloads
(per year)

Year	Value
2018	147M
2019	191M
2020	317M
2021	519M
2022	759M
2023	842M
2024	950M
2025	1,395M

Data source: Frontiers 2025

An innovator in every corner of the globe

In 2025, we published 85,345 new articles, each openly and permanently available immediately after publication, ensuring maximum readership and visibility.

In 2025, articles published by Frontiers were viewed and downloaded 1.4 billion times, making a total of 4.6 billion views and downloads to date.

Articles published in our journals were cited by researchers all over the world in the past year, now totaling 14 million.

85,345
new articles published in 2025

4.6 billion
total article views and downloads

14 million
total citations

Average citations (by publisher)

	Publisher		Citations
1st	American Chemical Society (ACS)		7.2
2nd	Royal Society of Chemistry (RSC)		6.1
3rd	American Physical Society (APS)		5.1
4th	Elsevier		5.0
5th	Frontiers		4.6
6th	Wiley		4.3
7th	MDPI		4.3
8th	Public Library of Science (PLoS)		4.0
9th	Emerald		3.6
10th	Springer Nature		3.2
11th	SAGE Publications		2.3
12th	Institute of Physics (IOP)		2.1
13th	Wolters Kluwer		1.7
14th	Taylor & Francis		1.7
15th	IEEE		1.6
16th	EDP Sciences		1.5
17th	American Institute of Physics (AIP)		1.4
18th	Cambridge University Press (CUP)		1.1
19th	Oxford University Press (OUP)		1.0
20th	De Gruyter		0.4

Data source: Dimensions 2025. The graph shows average citations received in 2025 to articles published in 2023 and 2024.

Highly visible, highly cited research

Frontiers is the fifth most cited publisher among the 20 largest publishers with an average of 4.6 citations received in 2025 to articles published in 2023 and 2024.

5th
most cited publisher

4.6
average citations

Your research made headlines in 2025

Articles published in Frontiers' journals were featured more than 41,000 times in the news.

41,188
news mentions in 2025 (Altmetric)

298,896
total news mentions (Altmetric)

BBC · CNN · EL PAÍS · NATIONAL GEOGRAPHIC · Newsweek

theguardian
Street smarts: how a hawk learned to use traffic signals to hunt more successfully
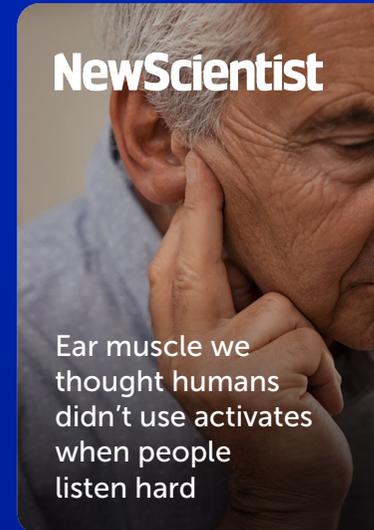
NewScientist
Ear muscle we thought humans didn't use activates when people listen hard

SCIENTIFIC AMERICAN
Orcas seen killing young great white sharks by flipping them upside-down

NBC NEWS
Cheese may really be giving you nightmares, scientists find

The Washington Post
Some of your AI prompts could cause 50 times more CO2 emissions than others

THE TIMES
'Molecular shield' placed in the nose may soon treat common hay fever trigger

In 2025, articles published in Frontiers' journals were mentioned more than 241,000 times across all social media channels.

241,000

social media mentions in 2025 (Altmetric)

3.6M

total social media mentions (Altmetric)

Regenerative farming practices increase soil carbon

Regenerative farming practices, from cover cropping to no-till, effectively increase soil carbon. This review in Frontiers in Sustainable Food Systems suggests combining practices may enhance long-term benefits.

47k impressions

The poles are warming at record speed but are drastic technological 'fixes' the answer?

Authors of a new article in Frontiers in Science argue that the fastest, most effective safeguard against the effects of climate change remains immediate and deep decarbonization.

6k impressions

The heart's eye

New research from Frontiers in Psychology explores how mental imagery influences romantic emotions and their physiological underpinnings.

15k impressions

"Frontiers' open access model lets cutting-edge researchers, especially newer voices, reach a much wider audience. That visibility is incredibly important, both for their careers and for accelerating progress in the field."

Professor Andrew Lee

Houston Methodist Hospital
Field Chief Editor, Frontiers in Ophthalmology

Influential journals, defining their fields

Following the 2025 release of the Web of Science Group's Journal Citation Report (JCR 2024), 121 of the journals published by Frontiers have a Journal Impact Factor.

This year, 90 of Frontiers' journals increased their Journal Impact Factor or were new entrants.

According to Scopus' CiteScore release in 2025, 133 Frontiers' journals have a CiteScore, with 97 achieving a higher CiteScore than last year.

See more about our impact

Our journals are listed in trusted indexes and databases

All Frontiers journals are
indexed in COPE

In 2025, an additional
25 journals were indexed in Web of Science, bringing the total to 145

All Frontiers journals are
indexed in the Directory of Open Access Journals (DOAJ)

An additional
29 journals were indexed in Scopus, bringing the total to 159

Frontiers in Electronics

510k
article views and downloads

2.1
Journal Impact Factor™

Together, let's make an impact

Frontiers in Neurology

87 M
article views and downloads

2.8
Journal Impact Factor™

5.2
CiteScore™

Frontiers in Neurorobotics

9 M
article views and downloads

2.8
Journal Impact Factor™

6.1
CiteScore™

Frontiers in Aging Neuroscience

51 M
article views and downloads

4.5
Journal Impact Factor™

8.6
CiteScore™

Frontiers in Pediatrics

46 M
article views and downloads

2.0
Journal Impact Factor™

4.3
CiteScore™

Journal Impact Factors and Citescores

Journal	Journal Impact Factor	CiteScore	JIF rank quartile	CiteScore rank quartile	Total citations
Frontiers in Aging	4.3	5.1	Q1	Q2	5,341
Frontiers in Aging Neuroscience	4.5	8.6	Q1	Q1	205,828
Frontiers in Agronomy	4.1	6.8	Q1	Q1	7,425
Frontiers in Allergy	3.1	4.6	Q2	Q2	5,213
Frontiers in Analytical Science	1.9	-	Q3	-	615
Frontiers in Animal Science	2.4	4.0	Q1	Q1	3,931
Frontiers in Antibiotics	-	2.0	-	Q3	488
Frontiers in Applied Mathematics and Statistics	1.5	2.8	Q3	Q2	5,676
Frontiers in Artificial Intelligence	4.7	7.3	Q1	Q2	24,502
Frontiers in Astronomy and Space Sciences	2.6	4.7	Q2	Q2	18,381
Frontiers in Behavioral Neuroscience	2.9	5.7	Q1	Q1	123,040
Frontiers in Big Data	2.3	6.1	Q2	Q1	8,507
Frontiers in Bioengineering and Biotechnology	4.8	8.8	Q1	Q1	227,104
Frontiers in Bioinformatics	3.9	4.9	Q1	Q1	4,742
Frontiers in Blockchain	2.4	5.6	Q3	Q1	4,786
Frontiers in Built Environment	2.7	4.6	Q2	Q1	20,145
Frontiers in Cardiovascular Medicine	2.9	5.5	Q2	Q1	133,883
Frontiers in Cell and Developmental Biology	4.3	11.4	Q1	Q1	275,354
Frontiers in Cellular and Infection Microbiology	4.8	9.0	Q1	Q1	251,043
Frontiers in Cellular Neuroscience	4.0	8.3	Q2	Q1	210,453
Frontiers in Chemical Engineering	2.6	5.5	Q3	Q2	4,083
Frontiers in Chemistry	4.2	8.4	Q2	Q1	184,388
Frontiers in Climate	4.1	6.8	Q2	Q1	12,680
Frontiers in Clinical Diabetes and Healthcare	2.2	2.3	Q3	Q3	1,468
Frontiers in Communication	1.6	3.0	Q2	Q2	14,185
Frontiers in Communications and Networks	2.4	6.9	Q3	Q1	1,784
Frontiers in Computational Neuroscience	2.3	5.0	Q2	Q2	52,964
Frontiers in Computer Science	2.7	5.3	Q3	Q2	9,140
Frontiers in Conservation Science	1.8	3.4	Q2	Q2	3,976
Frontiers in Dental Medicine	1.8	2.9	Q3	Q1	2,217
Frontiers in Digital Health	3.8	6.3	Q1	Q1	16,464
Frontiers in Drug Safety and Regulation	-	2.1	-	Q2	455
Frontiers in Earth Science	2.0	4.3	Q3	Q2	86,600
Frontiers in Ecology and Evolution	2.6	5.5	Q2	Q1	91,070
Frontiers in Education	1.9	3.7	Q2	Q2	49,218

Journal	Journal Impact Factor	CiteScore	JIF rank quartile	CiteScore rank quartile	Total citations
Frontiers in Electronics	2.1	-	Q3	-	1,150
Frontiers in Endocrinology	4.6	7.4	Q1	Q1	352,301
Frontiers in Energy Research	2.4	5.0	Q3	Q1	72,714
Frontiers in Environmental Archaeology	-	0.9	-	Q2	196
Frontiers in Environmental Chemistry	1.9	3.8	Q3	Q2	1060
Frontiers in Environmental Science	3.7	7.0	Q2	Q1	117,015
Frontiers in Epidemiology	-	1.8	-	Q3	1,165
Frontiers in Food Science and Technology	-	2.5	-	Q2	965
Frontiers in Forests and Global Change	3.2	5.2	Q1	Q1	18,835
Frontiers in Fungal Biology	3.8	4.8	Q2	Q1	2,532
Frontiers in Future Transportation	1.5	4.2	Q3	Q1	865
Frontiers in Gastroenterology	-	0.9	-	Q4	331
Frontiers in Genetics	2.8	6.2	Q2	Q2	308,946
Frontiers in Genome Editing	4.4	9.5	Q1	Q1	4,525
Frontiers in Global Women's Health	2.4	3.3	Q1	Q1	6,750
Frontiers in Health Services	2.7	2.5	Q2	Q2	3,198
Frontiers in Hematology	-	0.6	-	Q4	236
Frontiers in Horticulture	-	1.6	-	Q3	406
Frontiers in Human Dynamics	1.3	4.0	Q3	Q1	2,235
Frontiers in Human Neuroscience	2.7	5.5	Q2	Q1	340,011
Frontiers in Immunology	5.9	10.8	Q1	Q1	1.3 million
Frontiers in Insect Science	3.0	3.8	Q1	Q1	1,829
Frontiers in Integrative Neuroscience	2.9	5.2	Q1	Q2	41,587
Frontiers in Marine Science	3.0	5.8	Q1	Q1	223,468
Frontiers in Materials	2.9	5.6	Q3	Q2	51,893
Frontiers in Mechanical Engineering	3.0	4.3	Q2	Q2	9,051
Frontiers in Medical Technology	3.8	5.5	Q2	Q1	4,506
Frontiers in Medicine	3.0	6.0	Q1	Q1	213,549
Frontiers in Microbiology	4.5	8.5	Q1	Q1	1.2 million
Frontiers in Molecular Biosciences	4.0	8.8	Q2	Q1	100,803
Frontiers in Molecular Neuroscience	3.8	6.8	Q2	Q2	125,396
Frontiers in Nanotechnology	3.8	9.2	Q2	Q1	6,856
Frontiers in Nephrology	-	1.4	-	Q3	828
Frontiers in Network Physiology	3.0	4.4	Q2	Q2	1,773
Frontiers in Neural Circuits	3.0	7.8	Q2	Q1	60,032

Journal	Journal Impact Factor	CiteScore	JIF rank quartile	CiteScore rank quartile	Total citations
Frontiers in Neuroanatomy	2.3	4.3	Q1	Q2	56,245
Frontiers in Neuroergonomics	1.9	3.8	Q3	Q2	1,299
Frontiers in Neuroinformatics	2.5	5.5	Q2	Q1	53,682
Frontiers in Neurology	2.8	5.2	Q2	Q2	311,603
Frontiers in Neurorobotics	2.8	6.1	Q3	Q2	28,597
Frontiers in Neuroscience	3.2	6.6	Q2	Q2	423,978
Frontiers in Nuclear Engineering	-	1.4	-	Q3	442
Frontiers in Nuclear Medicine	1.4	1.8	Q3	Q3	679
Frontiers in Nutrition	5.1	7.9	Q1	Q1	168,226
Frontiers in Oncology	3.3	6.9	Q2	Q1	532,656
Frontiers in Ophthalmology	0.9	1.2	Q4	Q3	1,159
Frontiers in Oral Health	3.1	4.6	Q1	Q1	5,811
Frontiers in Pain Research	2.7	3.9	Q2	Q1	6,090
Frontiers in Pediatrics	2.0	4.3	Q2	Q1	123,633
Frontiers in Pharmacology	4.8	8.9	Q1	Q1	614,358
Frontiers in Photonics	-	3.7	-	Q3	677
Frontiers in Physics	2.1	4.6	Q2	Q1	62,777
Frontiers in Physiology	3.4	7.3	Q1	Q1	467,530
Frontiers in Plant Science	4.8	8.8	Q1	Q1	1 million
Frontiers in Political Science	1.9	3.8	Q2	Q1	5,125
Frontiers in Psychiatry	3.2	6.2	Q2	Q1	306,090
Frontiers in Psychology	2.9	6.3	Q1	Q1	1 million
Frontiers in Public Health	3.4	5.5	Q1	Q1	305,462
Frontiers in Radiology	2.3	3.0	Q2	Q2	1,247
Frontiers in Rehabilitation Sciences	1.9	2.4	Q2	Q2	4,723
Frontiers in Remote Sensing	3.7	6.4	Q2	Q1	4,115
Frontiers in Reproductive Health	2.9	3.7	Q2	Q1	4,399
Frontiers in Research Metrics and Analytics	1.6	4.2	Q2	Q1	4,892
Frontiers in Robotics and AI	3.0	7.3	Q2	Q1	43,692
Frontiers in Sensors	-	6.6	-	Q1	1,229
Frontiers in Signal Processing	2.6	4.7	Q2	Q2	1,314
Frontiers in Sleep	-	0.8	-	Q3	473
Frontiers in Sociology	2.2	3.8	Q1	Q1	14,153
Frontiers in Soil Science	3.7	5.2	Q2	Q2	2,229
Frontiers in Space Technologies	1.3	-	Q3	-	588

Journal	Journal Impact Factor	CiteScore	JIF rank quartile	CiteScore rank quartile	Total citations
Frontiers in Sports and Active Living	2.6	3.8	Q2	Q1	21,084
Frontiers in Surgery	1.8	3.3	Q2	Q2	41,784
Frontiers in Sustainability	2.9	4.8	Q3	Q1	6,278
Frontiers in Sustainable Cities	2.1	5.7	Q2	Q1	8,142
Frontiers in Sustainable Food Systems	3.1	6.2	Q2	Q1	60,776
Frontiers in Synaptic Neuroscience	4.1	8.0	Q1	Q2	17,128
Frontiers in Systems Biology	2.3	2.4	Q2	Q2	885
Frontiers in Systems Neuroscience	3.5	8.3	Q2	Q1	84,557
Frontiers in Toxicology	4.6	6.2	Q1	Q1	6,048
Frontiers in Transplantation	-	0.7	-	Q3	653
Frontiers in Tropical Diseases	-	2.7	-	Q3	2,429
Frontiers in Urology	1.1	1.3	Q3	Q3	445
Frontiers in Veterinary Science	2.9	5.1	Q1	Q1	129,357
Frontiers in Virology	1.6	3.3	Q4	Q3	1,529
Frontiers in Virtual Reality	3.6	8.5	Q1	Q1	11,148
Frontiers in Water	2.8	5.5	Q2	Q2	9,548

Partner journals

Journal	Journal Impact Factor	CiteScore	JIF rank quartile	CiteScore rank quartile	Total citations
Acta Biochimica Polonica	1.7	3.4	Q4	Q2	65,666
Acta Virologica	0.8	2.0	Q4	Q3	28,288
Advanced Optical Technologies	3.0	5.4	Q2	Q1	5,138
British Journal of Biomedical Science	4.6	5.8	Q1	Q2	22,887
Eur. Journal of Cultural Management and Policy	0.3	-	-	-	383
Experimental Biology and Medicine	2.7	6.5	Q3	Q1	806,096
International Journal of Public Health	2.4	3.9	Q2	Q2	73,709
Journal of Abdominal Wall Surgery	-	1.3	-	Q3	507
Journal of Cutaneous Immunology and Allergy	0.9	0.8	Q4	Q3	619
Journal of Pharmacy and Pharmaceutical Sciences	4.3	6.5	Q1	Q2	38,931
Oncology Reviews	5.2	3.8	Q1	Q3	6,898
Pastoralism: Research, Policy and Practice	2.9	4.1	Q3	Q1	6,805
Pathology and Oncology Research	2.3	4.6	Q2	Q2	49,573
Public Health Reviews	4.1	5.2	Q1	Q1	18,304
Spanish Journal of Soil Science	2.0	2.9	Q3	Q2	1,324
Transplant International	3.0	4.9	Q1	Q2	123,138

Frontiers' journals rank **most cited** in 16 Journal Citation Reports categories

Many of our journals rank among the most influential in their fields. The graphs on this page show ranking of the top five most cited journals in their categories as released by the Web of Science Group in 2025. The bars represent the total number of citations received in 2024 for articles published in 2022 and 2023, with Frontiers' journals in blue.

Clinical Neurology

1st	Frontiers in Neurology	14,908
2nd	Journal of Affective Disorde...	12,821
3rd	Neurology	9,038
4th	Brain	8,464
5th	Alzheimers & Dementia	8,291

Developmental Biology

1st	Frontiers in Cell and Develo...	15,796
2nd	Developmental Cell	3,176
3rd	Development	2,611
4th	Seminars in Cell & Develop...	2,456
5th	Placenta	1,001

Endocrinology & Metabolism

1st	Frontiers in Endocrinology	29,283
2nd	Diabetes Care	10,943
3rd	Cell Metabolism	7,813
4th	Journal of Clinical Endocrin...	6,974
5th	Cardiovascular Diabetology	6,571

Engineering, Biomedical

1st	Frontiers in Bioengineering...	18,894
2nd	Bioactive Materials	17,032
3rd	Computers in Biology and...	15,090
4th	Advanced Healthcare Mater...	14,617
5th	Acta Biomaterialia	13,203

Genetics & Heredity

1st	Frontiers in Genetics	14,689
2nd	Genes	12,975
3rd	Nature Genetics	10,629
4th	bmc Genomics	5,978
5th	Molecular Therapy	5,492

Geriatrics & Gerontology

1st	Frontiers in Aging Neurosci...	10,384
2nd	bmc Geriatrics	6,908
3rd	Ageing Research Reviews	5,969
4th	Journal of Cachexia Sarcop...	4,171
5th	Nature Aging	3,549

Immunology

1st	Frontiers in Immunology	81,785
2nd	Frontiers in Cellular and Inf...	15,685
3rd	Vaccines	13,406
4th	International Immunophar...	12,607
5th	Journal for Immunotherapy...	9,896

Marine & Freshwater Biology

1st	Frontiers in Marine Science	14,243
2nd	Marine Pollution Bulletin	11,848
3rd	Aquaculture	9,396
4th	Fish & Shellfish Immunology	5,685
5th	Aquatic Toxicology	2,393

Microbiology

1st	Frontiers in Microbiology	41,351
2nd	Microorganisms	22,241
3rd	Frontiers in Cellular and Inf...	15,685
4th	Microbiology Spectrum	15,426
5th	Nature Reviews Microbiology	10,018

Neurosciences - Series Grouped

1st	Frontiers in Neuroscience J...	44,691
2nd	Frontiers in Neurology	14,908
3rd	Brain Sciences	9,452
4th	Brain	8,464
5th	Molecular Psychiatry	8,452

Neurosciences

1st	Frontiers in Neurology	14,908
2nd	Frontiers in Neuroscience	13,285
3rd	Frontiers in Aging Neurosci...	10,384
4th	Brain Sciences	9,452
5th	Brain	8,464

Pharmacology & Pharmacy

1st	Frontiers in Pharmacology	40,327
2nd	Pharmaceutics	30,361
3rd	Biomedicines	25,526
4th	Biomedicine & Pharmacoth...	24,325
5th	Antibiotics-Basel	16,168

Physiology

1st	Frontiers in Physiology	14,422
2nd	Journal of Physiology-Lond...	2,519
3rd	Physiological Reviews	2,466
4th	Pesticide Biochemistry and...	2,399
5th	American Journal of Physiol...	2,273

Plant Sciences

1st	Frontiers in Plant Science	44,049
2nd	Plants-Basel	31,480
3rd	Agronomy-Basel	20,991
4th	Journal of Ethnopharmacol...	12,804
5th	Phytomedicine	11,199

Psychiatry

1st	Frontiers in Psychiatry	16,106
2nd	Journal of Affective Disorde...	12,821
3rd	Molecular Psychiatry	8,452
4th	bmc Psychiatry	6,308
5th	Translational Psychiatry	5,451

Psychology, Multidisciplinary

1st	Frontiers in Psychology	36,346
2nd	Current Psychology	7,729
3rd	Computers in Human Beha...	6,510
4th	Behavioral Sciences	3,834
5th	Current Opinion in Psychol...	2,662

Frontiers' journals rank **most cited** in 21 CiteScore categories

The graphs on this page show ranking of the top five most cited journals in their CiteScore categories, as released by Scopus, Elsevier, in 2025. The bars represent the number of citations received from 2021 to 2024 for articles published in the same four years, with Frontiers' journals in blue.

Dental Assisting

1st	Frontiers in Dental Medicine	752
2nd	European Endodontic Jour...	517
3rd	West China Journal of Stom...	339
4th	Annals of Dental Specialty	301
5th	Stomatological Bulletin	45

Dental Hygiene

1st	Frontiers in Dental Medicine	752
2nd	Oral Health and Preventive...	740
3rd	European Endodontic Jour...	517
4th	Journal of Dental Hygiene	325
5th	Annals of Dental Specialty	301

Developmental Biology

1st	Frontiers in Cell and Develo...	92,581
2nd	International Journal of Biol...	20,915
3rd	Developmental Cell	14,472
4th	Development (Cambridge)	9,607
5th	Seminars in Cell and Develo...	9,075

Endocrinology, Diabetes and Metabolism

1st	Frontiers in Endocrinology	77,097
2nd	Frontiers in Nutrition	62,365
3rd	Diabetes Care	40,683
4th	Journal of Clinical Endocrin...	28,337
5th	Metabolites	27,940

Genetics (Clinical)

1st	Frontiers in Genetics	55,811
2nd	Genes	45,323
3rd	Nature Reviews Genetics	16,673
4th	Plos Genetics	13,721
5th	Genetics in Medicine	11,053

Global and Planetary Change

1st	Frontiers in Marine Science	48,982
2nd	Land	47,519
3rd	Global Change Biology	40,400
4th	International Journal of Ap...	26,791
5th	Nature Sustainability	25,190

Histology

1st	Frontiers in Bioengineering...	57,091
2nd	Journal of Extracellular Vesi...	11,281
3rd	Bone	8,696
4th	Microscopy Research and T...	5,892
5th	Histopathology	5,486

Immunology and Allergy

1st	Frontiers in Immunology	268,044
2nd	International Immunophar...	40,864
3rd	Pathogens	38,534
4th	Journal for Immunotherapy...	34,264
5th	Immunity	29,731

Immunology

1st	Frontiers in Immunology	268,044
2nd	Vaccines	67,553
3rd	Cell Death and Disease	57,507
4th	Frontiers in Cellular and Inf...	52,177
5th	Blood	46,444

Microbiology (Medical)

1st	Frontiers in Microbiology	137,906
2nd	Microorganisms	80,965
3rd	Clinical Infectious Diseases	71,223
4th	Antibiotics	54,827
5th	Frontiers in Cellular and Inf...	52,177

Microbiology

1st	Frontiers in Microbiology	137,906
2nd	Foods	136,377
3rd	Microorganisms	80,965
4th	Antibiotics	54,827
5th	Frontiers in Cellular and Inf...	52,177

Neurology (Clinical)

1st	Frontiers in Neurology	51,430
2nd	Neurology	32,575
3rd	Brain	27,746
4th	Stroke	24,932
5th	Alzheimer'S and Dementia	24,470

Neurology

1st	Frontiers in Neurology	51,430
2nd	Neuroimage	32,008
3rd	Journal of Neurology	21,212
4th	Ageing Research Reviews	20,834
5th	Journal of Neuroinflammati...	19,372

Neuroscience (All)

1st	Frontiers in Neuroscience	46,052
2nd	Peerj	35,134
3rd	Brain Sciences	34,754
4th	Neuron	25,478
5th	Nature Neuroscience	25,282

Neuroscience Subject Area

1st	Frontiers in Neuroscience J...	146,261
2nd	Neurocomputing	69,797
3rd	Cell Death and Disease	57,507
4th	Frontiers in Neurology	51,430
5th	Molecular Psychiatry	39,594

Oceanography

1st	Frontiers in Marine Science	48,982
2nd	Marine Pollution Bulletin	47,366
3rd	Ocean and Coastal Manage...	15,291
4th	Marine and Petroleum Geol...	15,174
5th	Journal of Geophysical Res...	11,121

Pediatrics, Perinatology and Child Health

1st	Frontiers in Pediatrics	28,446
2nd	Children	24,721
3rd	Pediatrics	24,580
4th	Jama Pediatrics	15,075
5th	Pediatric Research	12,230

Pharmacology (Medical)

1st	Frontiers in Pharmacology	138,968
2nd	Vaccines	67,553
3rd	Antibiotics	54,827
4th	Cochrane Database of Syst...	24,459
5th	Rheumatology	22,032

Pharmacology

1st	Frontiers in Pharmacology	138,968
2nd	Biomedicine and Pharmaco...	80,505
3rd	Vaccines	67,553
4th	Journal of Ethnopharmacol...	48,869
5th	International Immunophar...	40,864

Psychiatry and Mental Health

1st	Frontiers in Psychiatry	59,327
2nd	Journal of Affective Disorde...	52,616
3rd	Molecular Psychiatry	39,594
4th	Alzheimer'S and Dementia	24,470
5th	Translational Psychiatry	22,784

Psychology (All)

1st	Frontiers in Psychology	137,677
2nd	Current Psychology	34,036
3rd	Computers in Human Beha...	31,058
4th	Personality and Individual D...	18,360
5th	Appetite	15,614

Our commitment to quality and research integrity

Quality and integrity are built by design into everything we do to safeguard academic research.

Rigorous and transparent peer review – our three-pronged approach

When research undergoes rigorous expert review, it builds a foundation of trust in the scientific record that accelerates scientific progress and societal impact.

Our distinctive approach to research integrity and quality is three-pronged: we combine human expertise on our editorial boards and our in-house teams

with cutting-edge AI and technology, enabling us to publish at scale while continually raising standards. This approach has created the most advanced peer review and research integrity process in the publishing industry, with measurable quality outcomes.

Editorial boards

Our editorial boards are made up of leading researchers who bring deep expertise to the peer review process, ensuring rigorous assessment of each article.

+

Our research integrity and review teams

Our research integrity team, one of the largest in the industry, has more than a decade of experience in assessing the quality and integrity of manuscripts before, during, and after peer review, safeguarding the credibility of published work. Simultaneously, our peer review team supports handling editors, reviewers, and authors at every stage of the review process.

+

AI and technology

Our advanced artificial intelligence technology performs a total of 44 quality checks on each submitted manuscript, all of which would be impossible at scale through human effort alone. AI is a partner in the process, not a replacement, and always works in conjunction with human validation.

"Research integrity is in our DNA, it's embedded in everything we do, in every stage of the process. It's not just a tick-box exercise – we're here to define and defend the pillars of scientific integrity."
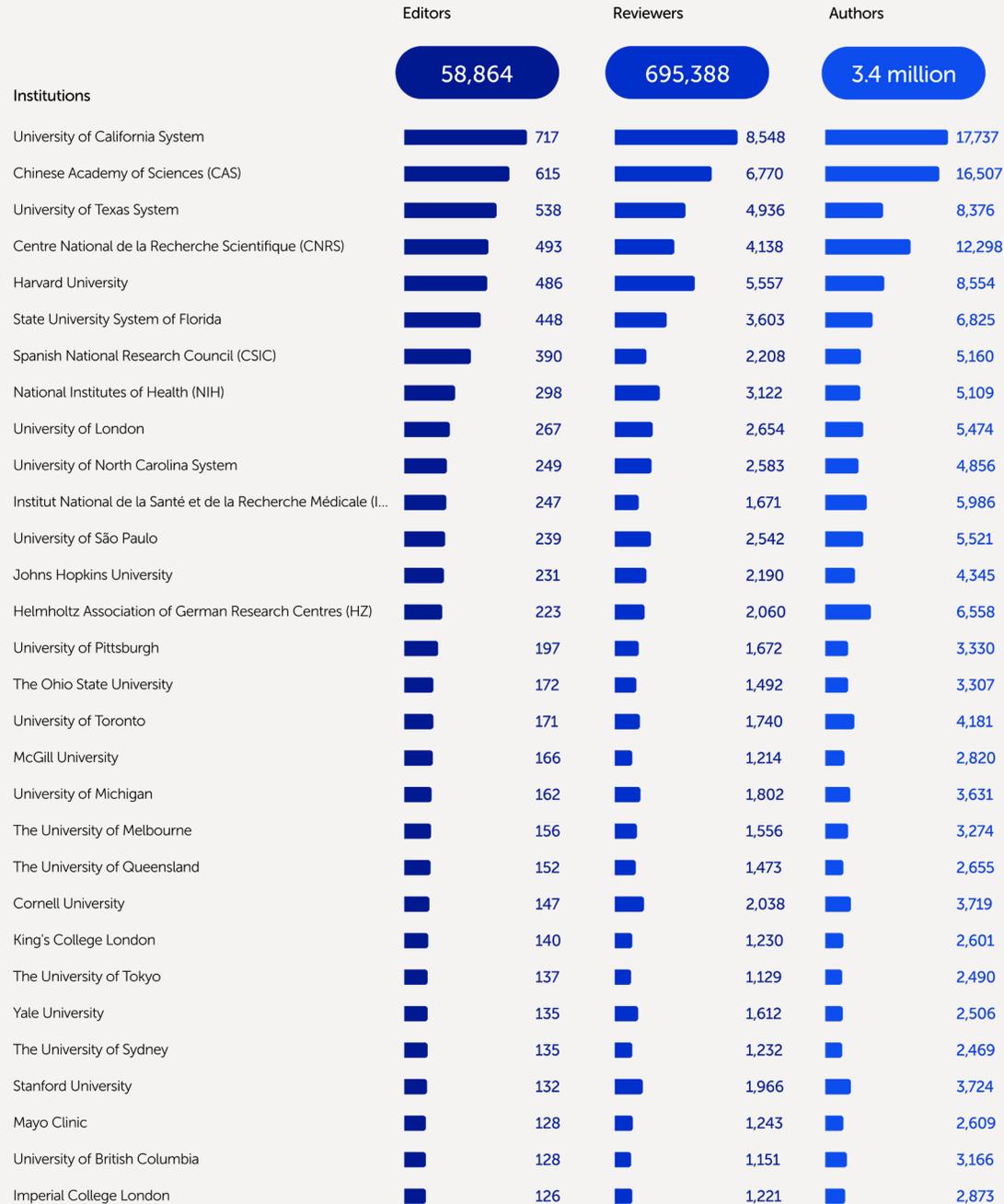
Elena Vicario
Director of Research Integrity

Our expert editorial boards

The first aspect in our three-pronged quality approach is our expert editorial boards. Comprised of leading researchers from the world's top institutions, they bring a depth of expertise to the peer review process.

Our journals' Field Chief Editors are renowned scientists, empowered to drive progress and shape the future of their fields. They are joined by active researchers as Editors and Reviewers, safeguarding quality and integrity in their journals and sections.

In 2025 our global research community reached 58,864 Editors, 695,388 Reviewers, and 3.4 million Authors across 164 countries.

Institutions	Editors 58,864	Reviewers 695,388	Authors 3.4 million
University of California System	717	8,548	17,737
Chinese Academy of Sciences (CAS)	615	6,770	16,507
University of Texas System	538	4,936	8,376
Centre National de la Recherche Scientifique (CNRS)	493	4,138	12,298
Harvard University	486	5,557	8,554
State University System of Florida	448	3,603	6,825
Spanish National Research Council (CSIC)	390	2,208	5,160
National Institutes of Health (NIH)	298	3,122	5,109
University of London	267	2,654	5,474
University of North Carolina System	249	2,583	4,856
Institut National de la Santé et de la Recherche Médicale (I...	247	1,671	5,986
University of São Paulo	239	2,542	5,521
Johns Hopkins University	231	2,190	4,345
Helmholtz Association of German Research Centres (HZ)	223	2,060	6,558
University of Pittsburgh	197	1,672	3,330
The Ohio State University	172	1,492	3,307
University of Toronto	171	1,740	4,181
McGill University	166	1,214	2,820
University of Michigan	162	1,802	3,631
The University of Melbourne	156	1,556	3,274
The University of Queensland	152	1,473	2,655
Cornell University	147	2,038	3,719
King's College London	140	1,230	2,601
The University of Tokyo	137	1,129	2,490
Yale University	135	1,612	2,506
The University of Sydney	135	1,232	2,469
Stanford University	132	1,966	3,724
Mayo Clinic	128	1,243	2,609
University of British Columbia	128	1,151	3,166
Imperial College London	126	1,221	2,873

UNIVERSITY OF CALIFORNIA

中国科学院 CHINESE ACADEMY OF SCIENCES

HARVARD UNIVERSITY

TEXAS The University of Texas at Austin

NIH

UNIVERSITY OF LONDON

HELMHOLTZ

Stanford University

Inserm

UNIVERSITY OF OXFORD

Karolinska Institutet

CSIC CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS

"The offer that we make to authors is that your manuscript will be scrutinized at the highest possible standard when you submit to Frontiers. And it's up to me and senior people in the editorial team to make a judgement on whether each manuscript is high enough quality for publication."

Martin Siegert
University of Exeter
Field Chief Editor, Frontiers in Environmental Science

Our research integrity and review teams

The second aspect of our approach to scientific excellence at scale is the work of our expert in-house teams.

At the core of this system is our research integrity team, one of the largest and most experienced in publishing. Established in 2016, this team safeguards the integrity of the Frontiers scientific record with quality checks conducted before, during, and after peer review.

Our handling editors, reviewers, and authors are supported during peer review by our dedicated review professionals. Through their role they improve the quality standards of each manuscript that goes through peer review. They also ensure high quality standards for the review process itself, promoting a constructive discussion between reviewers and authors.

Guardians of quality and integrity

As global research output grows, so does the scale and sophistication of misconduct affecting the publishing industry, including organized fraud networks and paper mills. For this reason, we created an auditing division in 2022. It proactively analyses patterns across submissions, authors, and publications, uncovering systematic manipulation and networks of large-scale fraud across the full scientific record. We now have the most advanced detection process for fraudulent manuscripts in the publishing industry.

In 2025, this work led the team to uncover an organized network of researchers engaging in citation manipulation. The investigation identified more than 4,000 papers published by the group across multiple publishers, and resulted in the retraction of 122 articles by Frontiers. It prompted collaboration with other affected publishers to help safeguard the integrity of the scientific record at large.

Watch: meet Frontiers' auditing team: pioneering research integrity since 2022.

"Research integrity and quality is a continuous thread. It's not something that only happens at the beginning of our peer review process. It's a priority as we move papers through all those steps, right through to post-publication vigilance."

Renee Devonish
Peer Review Portfolio Manager

Our collaboration in industry-wide research integrity

Our research integrity team takes an active role in the publishing landscape, sharing knowledge and contributing to cross-publisher initiatives.

Through our COPE membership, Frontiers actively contributes to the advocacy and promotion of ethical publishing practices. Joining our existing representatives Marie Souliere (an elected COPE council member) and Simone Ragavooloo (COPE advisor), our Director of Research Integrity Elena Vicario was appointed as a COPE advisor in 2025.

We're also active members of the International Association of Scientific, Technical & Medical Publishers (STM). This collaborative group brings together publishing leaders to set higher standards for research ethics and safeguard the academic record. In 2025 Marie Souliere, our Head of Editorial Ethics and Quality Assurance, joined STM's Research Integrity committee and Anna Rabitti, Research Integrity Portfolio Manager, joined STM's Standards & Technology Committee.

Raising the bar through our policy work

Frontiers' policies continue to set the standard for responsible and ethical publishing.

In 2025 we published an industry first policy to counteract fast-churn science and new guidelines for reviewers and editors in their use of AI during the peer review process.

ACROSS 2025 OUR RESEARCH INTEGRITY TEAM PARTICIPATED IN HIGH-PROFILE EVENTS, INCLUDING

- Japan Open Science Summitt
- Asian Council of Science Editors (ACSE)
- ENRIO conference
- COPE integrity week
- International Research Integrity conference in Sydney

"We were the first publisher to say it's not enough to look at the individual manuscript in the current research integrity climate – you have to look at the bigger picture and the patterns across all submissions and all journals. And it's great that we now connect with other research integrity professionals, tell people what we do, and share knowledge with other publishers."

Catriona Leslie
Research Integrity Auditing Manager

"What I really love is that Frontiers has implemented a set of automatic quality checks. So a paper submitted undergoes more than 40 mainly AI-based checks before it's actually on the desk of any editor."

Thomas Hartung
Bloomberg School of Public Health, Johns Hopkins University
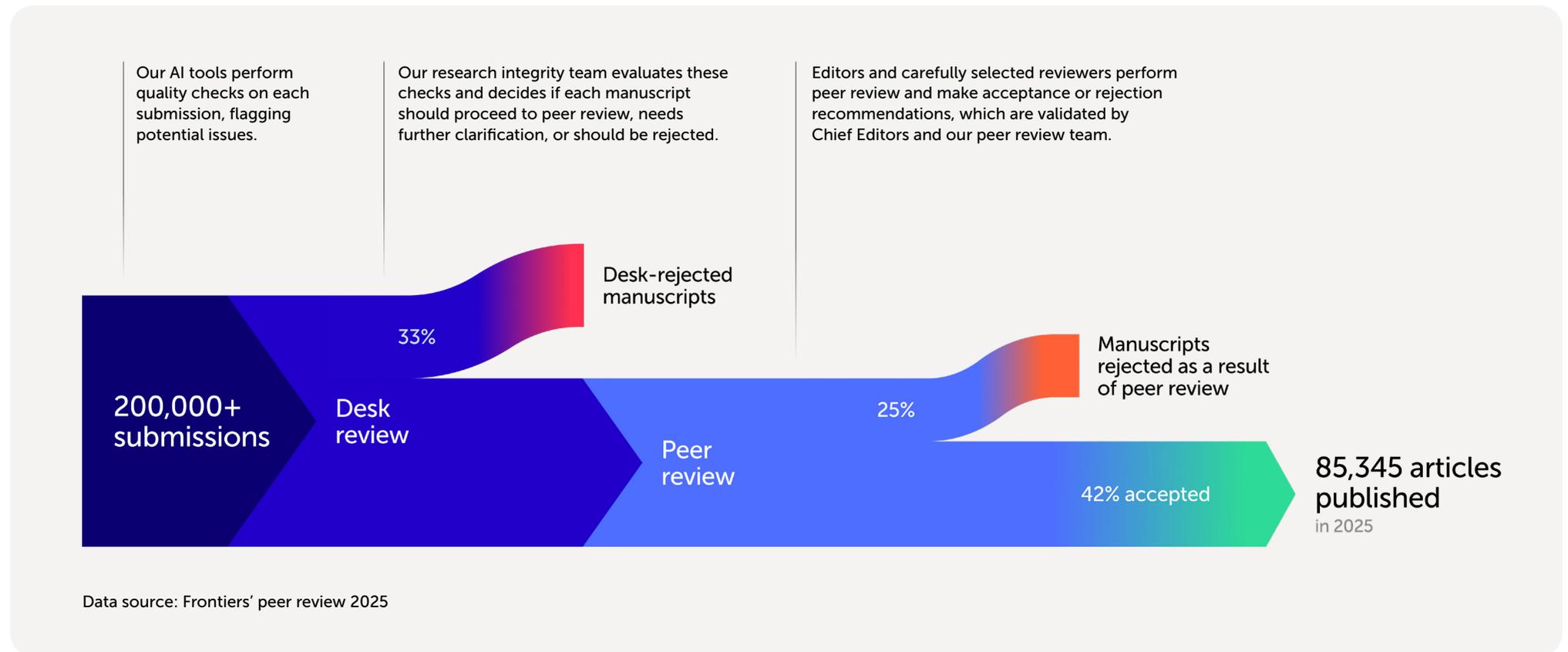Field Chief Editor, Frontiers in Artificial Intelligence

Our research integrity team's unique support

Each year, our in-house research integrity team prevents thousands of manuscripts that do not meet Frontiers' quality standards from entering peer review. This early-stage intervention allows editors and reviewers to focus their time on strengthening high-quality research and represents the most advanced detection process for sub-standard and fraudulent manuscripts in the industry.

As shown in the graph below, of the manuscripts submitted in 2025, a total of 42% were accepted across all Frontiers' journals, while 58% were rejected. In 2025 more than half of those rejections were carried out by our research integrity team before the manuscript reached the peer review stage.

Rejection rates across Frontiers' journals vary depending on field and maturity of journals and can reach up to 75% in some fields.

Our AI tools perform quality checks on each submission, flagging potential issues.

Our research integrity team evaluates these checks and decides if each manuscript should proceed to peer review, needs further clarification, or should be rejected.

Editors and carefully selected reviewers perform peer review and make acceptance or rejection recommendations, which are validated by Chief Editors and our peer review team.

Desk-rejected manuscripts

33%

200,000+ submissions

Desk review

Peer review

25%

Manuscripts rejected as a result of peer review

42% accepted

85,345 articles published
in 2025

Data source: Frontiers' peer review 2025

AI that protects the quality of science

At Frontiers, we approach artificial intelligence with a clear principle: innovation must strengthen research quality.

Forming the third prong in our approach to quality, our AI systems are designed to support and enhance human judgement, not replace it.

AIRA, our Artificial Intelligence Review Assistant built in-house, continues to evolve as an integral part of our quality assurance operations.

Working alongside editors, reviewers, and research integrity specialists, AIRA helps identify risks, surface patterns, and apply consistent checks at scale, enabling human experts to focus on evaluation, decision-making, and improvement of high-quality research.

Responsible AI governance

In 2025 we launched our framework for responsible AI governance.

Shaped by our hands-on experience developing AI tools and aligned with leading international standards, including those set by the OECD, UNESCO, NIST, ISO, and the EU, the framework is built around six core pillars.

- Transparency and accountability
- AI literacy and capacity building in research
- Ethics and integrity guardrails
- Equity and access governance
- Community engagement and researcher feedback
- Advocacy and policy leadership

By translating global AI standards into a research and publishing context, these six pillars make responsible AI principles practical, actionable, and relevant for stakeholders across the research ecosystem.

Every AI tool we build and use at Frontiers is governed by this framework, ensuring transparency, ethical use, and clear human oversight at every stage.

A roadmap for responsible innovation with AI

Frontiers set out a clear position on the role of artificial intelligence in research and publishing with the publication of a whitepaper, Unlocking AI's untapped potential: responsible innovation in research and publishing.

Informed by a global survey of the research community, the whitepaper examined how AI is being adopted across disciplines and what this means for research quality, integrity, and trust.

We addressed both the promise and the responsibility that comes with AI.

The report reinforces the importance of shared standards, oversight, transparency, and accountability as AI becomes embedded across the research lifecycle.

Beyond identifying trends, the paper translated insight into action, setting out practical recommendations for researchers, publishers, institutions, funders, and policymakers.

frontiers

Unlocking AI's untapped potential: responsible innovation in research and publishing

frontiersin.org

Read the whitepaper
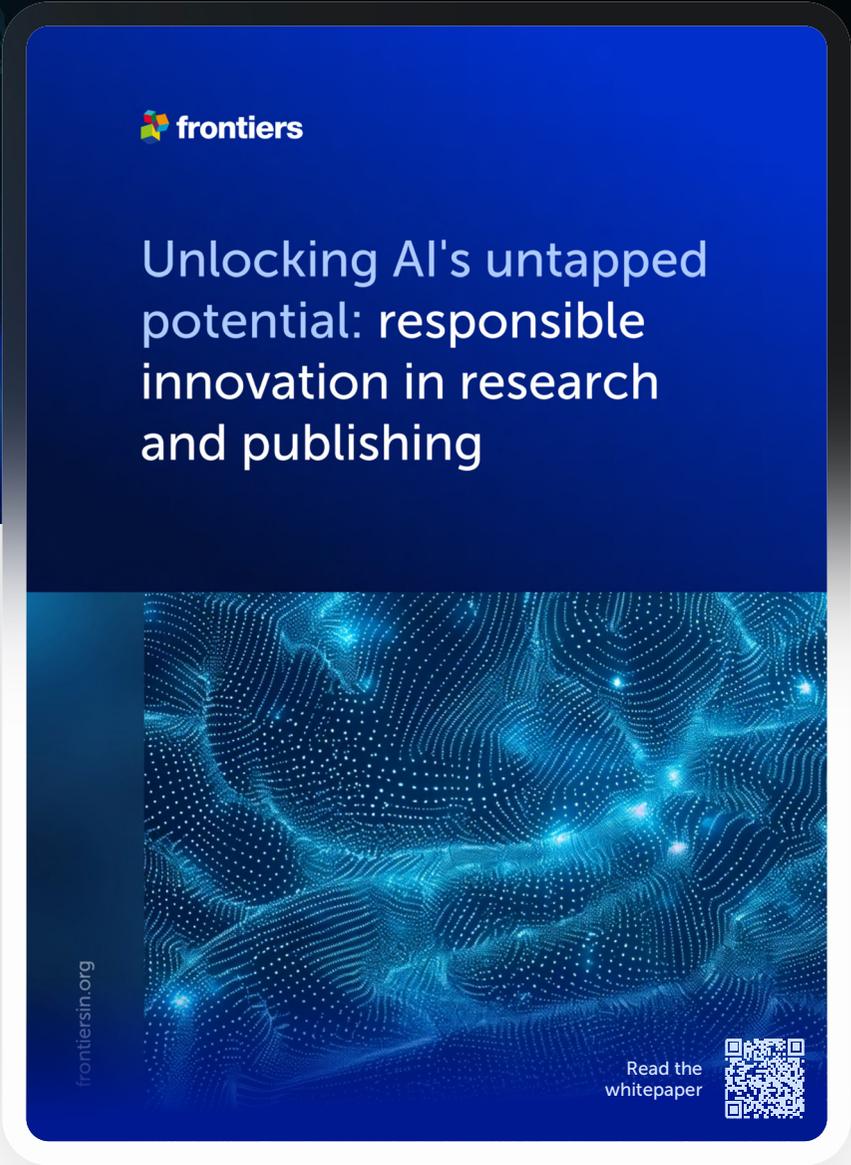
Strengthening our quality defenses

AIRA already performs more than 40 quality checks as standard on each submitted manuscript – on authors, manuscript content, and the review process. These checks are being refined all the time, fed by knowledge from our research integrity and auditing teams.

In 2025 we further strengthened the industry-leading research integrity system that AIRA supports. Building on our established papermill detection capabilities, we integrated new industry standards this year, including Cactus Communications' Paperpal Preflight and Clear Skies' Papermill Alarm and Oversight.

These enhancements significantly reinforce our multilayered defenses and position Frontiers' platform as the strongest in papermill detection across the publishing industry.

Getting to know our digital teammate

At a time when many question AI's role in science, we continue to lead responsibly by treating AI as a partner, not a replacement.

For Peer Review Week 2025, we hosted a virtual conversation with our AI Review Assistant, AIRA. Part of the team since 2018, AIRA supports and builds upon the work of our in-house teams and continues to evolve as a responsible partner in quality assurance.

In this one-of-a-kind interview, AIRA reflects on how humans and AI can work side by side to strengthen quality, integrity, and trust in publishing.

∎A∎I∎R∎A∎

Listen to
the interview
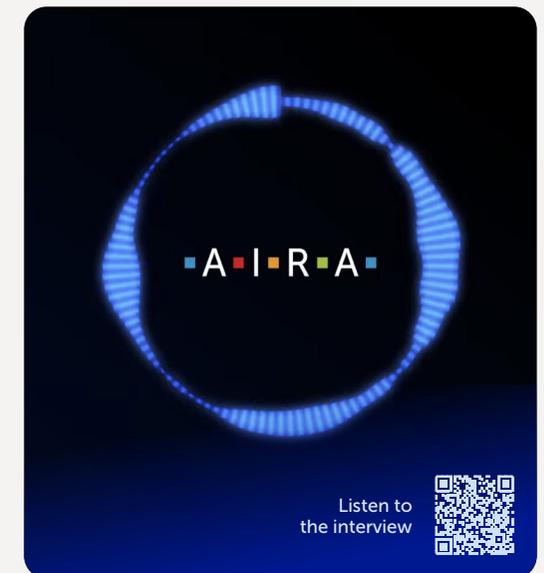
An efficient process, delivering quality at scale

By combining the speed and power of AI with human expertise and a rigorous expert review, we provide a process that safeguards the quality of published articles while remaining efficient.

Thanks to this, our average acceptance time is 96 days.

96 days

2025 average acceptance time
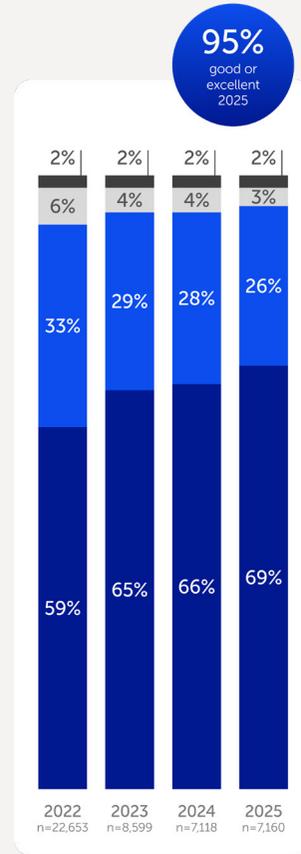
Our commitment
to quality
is measurable

Our dedication to quality and rigor delivers measurable results. We ask our editors, reviewers, authors, and readers to hold us accountable, and in 2025 this commitment translated into strong community validation alongside sustained citation performance.

Each year we ask thousands of researchers using our website to rate the quality of our articles, peer review, and editorial boards. More than 95% rate our services as good or excellent.
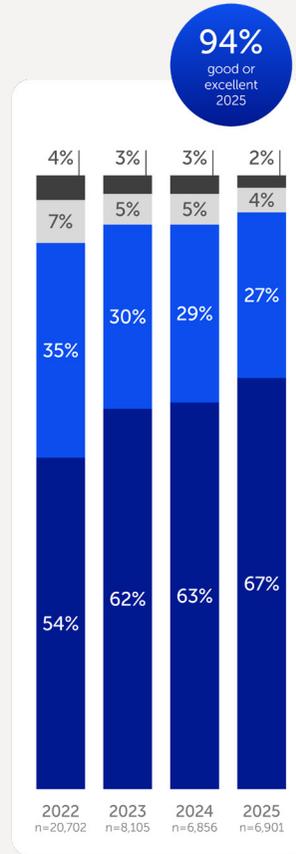
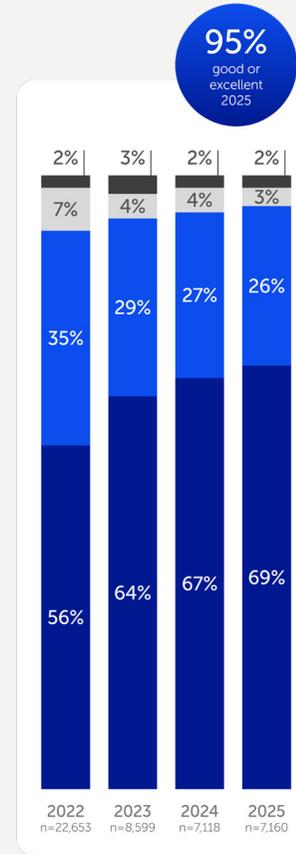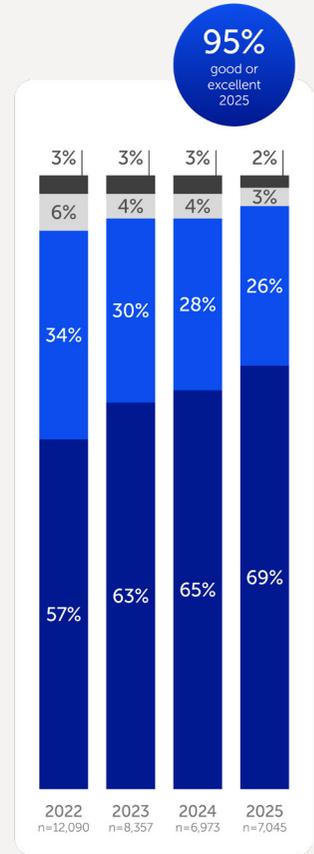## Please rate Frontiers on the quality of our:

Articles

95% good or excellent 2025

	2022 n=22,653	2023 n=8,599	2024 n=7,118	2025 n=7,160
Poor	2%	2%	2%	2%
Average	6%	4%	4%	3%
Good	33%	29%	28%	26%
Excellent	59%	65%	66%	69%

Peer review

94% good or excellent 2025

	2022 n=20,702	2023 n=8,105	2024 n=6,856	2025 n=6,901
Poor	4%	3%	3%	2%
Average	7%	5%	5%	4%
Good	35%	30%	29%	27%
Excellent	54%	62%	63%	67%

Editorial boards

95% good or excellent 2025

	2022 n=22,653	2023 n=8,599	2024 n=7,118	2025 n=7,160
Poor	2%	3%	2%	2%
Average	7%	4%	4%	3%
Good	35%	29%	27%	26%
Excellent	56%	64%	67%	69%

Overall

95% good or excellent 2025

	2022 n=12,090	2023 n=8,357	2024 n=6,973	2025 n=7,045
Poor	3%	3%	3%	2%
Average	6%	4%	4%	3%
Good	34%	30%	28%	26%
Excellent	57%	63%	65%	69%

● Excellent   ● Good   ● Average   ● Poor

Data source: Frontiers' surveys

You rated our peer review as excellent

Our unique approach provides a peer review process that not only safeguards the quality of published articles but delivers a high-quality publishing experience for our research community.
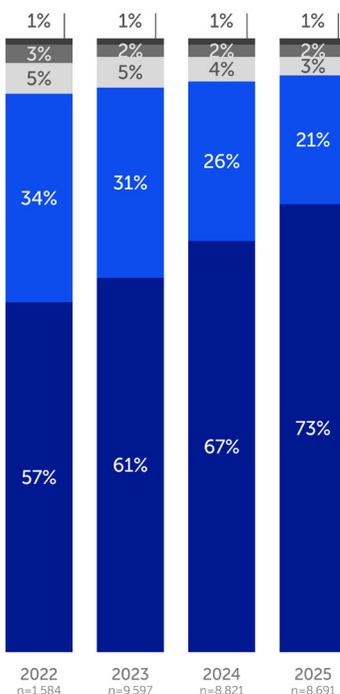
In 2025 we asked more than 100,000 accepted Authors, Handling Editors, and Reviewers how they would rate their recent experience of the process. Over the past four years, more and more have rated the experience as excellent, now reaching 73% of authors.

Published author

How would you rate your overall experience from submission to publication of your article?
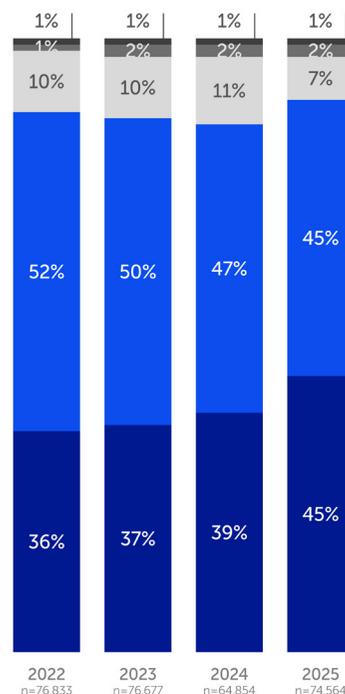
94% good or excellent 2025

	2022 n=1,584	2023 n=9,597	2024 n=8,821	2025 n=8,691
(top)	1%	1%	1%	1%
Poor/Below avg	3%	2%	2%	2%
Average	5%	5%	4%	3%
Good	34%	31%	26%	21%
Excellent	57%	61%	67%	73%

Reviewer

How would you rate your experience of being a reviewer on this manuscript?

90% good or excellent 2025

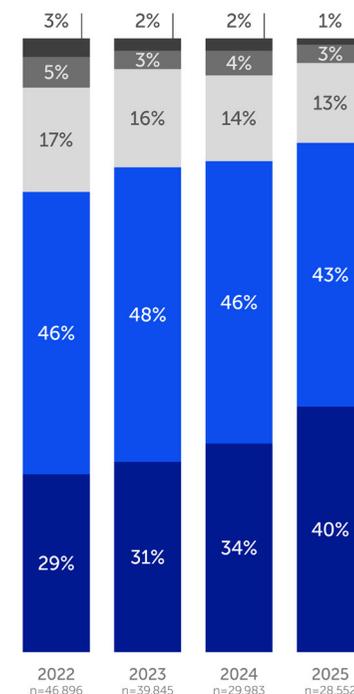|	2022 n=76,833	2023 n=76,677	2024 n=64,854	2025 n=74,564
(top)	1%	1%	1%	1%
Below avg	1%	2%	2%	2%
Average	10%	10%	11%	7%
Good	52%	50%	47%	45%
Excellent	36%	37%	39%	45%

Handling editor

How would you rate your experience of being an editor on this manuscript?

83% good or excellent 2025

	2022 n=46,896	2023 n=39,845	2024 n=29,983	2025 n=28,552
(top)	3%	2%	2%	1%
Below avg	5%	3%	4%	3%
Average	17%	16%	14%	13%
Good	46%	48%	46%	43%
Excellent	29%	31%	34%	40%

Legend: ● Excellent ● Good ● Average ● Below average ● Poor

Data source: Frontiers' surveys, January to December 2025

We're champions for open science

We actively create strong links, partnerships, and high profile events to bring the benefits of open science to more people

Science unlocked: why open science is essential for our future

Science shapes every part of our lives, from the medicines we rely on to the food we eat and the health of our planet. But for too long, much of that knowledge has been locked behind barriers.

Hosted by global news network CNBC, Science Unlocked is a new docufilm by Frontiers, which explores why open science matters, how it accelerated life-saving breakthroughs during COVID-19, and why making research openly accessible is essential to solve today's biggest global challenges, from climate change to human health.

The film traces the story of how and why Frontiers was founded and the mission that drives its work, exploring how removing barriers to knowledge transforms what scientific research can achieve.

By highlighting both the challenges created by paywalls and the opportunities unlocked through open access, Science Unlocked shows how openness is not only expanding who can participate in research, but also accelerating discovery, strengthening decision-making, and turning scientific potential into progress at global scale.

Science Unlocked is hosted and distributed on CNBC, content produced by Acumen Media

Watch the full video ›

Kamila Markram explains how her own frustrating experiences with paywalls as a researcher informed Frontiers' business model.

Idan Segev, Field Chief Editor of Frontiers in Neuroscience, reflects on the speed at which research was shared to find solutions during the COVID-19 pandemic, and what this demonstrates about the power of many minds building on each other's knowledge.

Frontiers' co-founder, Henry Markram, talks about the company's commitment to innovating in every aspect of how research is published and shared, from article level metrics to integrating AI into our quality processes.

"In order to accelerate innovation and fuel our knowledge economy, we need to make this science openly accessible so we can find solutions and people can live better lives. Healthier lives, more prosperous lives."

Kamila Markram
CEO and Co-founder, Frontiers

Martin Siegert, Field Chief Editor of Frontiers in Environmental Science, discusses the importance of a dialogue between policymakers and scientists to tackle the world's great challenges.

"People's lives depend on science. Open access publishing is critical in science but it's also fundamental to the future of our planet."

Martin Siegert
Field Chief Editor, Frontiers in Environmental Science

Three prizes of $1 million for healthy lives on a healthy planet

Maintaining planetary health and mitigating the outcomes of climate change are the biggest challenges humanity faces. We founded Frontiers Planet Prize in 2022 to accelerate understanding of planetary boundaries and scientific solutions to planetary health. In just four years, the prize has become the world's largest scientific competition dedicated to advancing solutions that enable humanity to operate within the nine planetary boundaries. It awards **three prizes of 1 million USD each year** to accelerate and scale up breakthrough research in planetary health.

Each year, nominations are made by the world's foremost universities and institutions. A distinguished jury of 100 climate and earth science experts chaired by Prof Johan Rockström selects champions whose research has the potential for real-world impact.

Now into its fourth edition, Frontiers Planet Prize has awarded $9.6 million in prize money to support breakthrough science. Our key scientific partners include the International Science Council, Villars Institute, and Potsdam Institute for Climate Impact Research.

Since launch, the prize has more than tripled its institutional network, expanding from 233 institutions across 27 countries to 735 institutions across 69 countries. The strength of the network is reflected in the participation of 80 institutions from the Times Higher Education World University Rankings Top 100, including all eight Ivy League universities in the United States.

Making an impact

Frontiers Planet Prize was featured in the media in 26 countries in 2025, including by Thomson Reuters, The Associated Press and the New Yorker, and has been seen by more than 5 million people.

44 winning articles have been cited in more than 400 policy documents, including citations from World Bank, OECD and UN agencies.

The work of International Champions has subsequently been featured at prestigious events including World Economic Forum, COP30, Falling Walls Science Summit, and Science Forum South Africa. It has unlocked millions of dollars in additional funding, directly benefiting hundreds of thousands of people globally.

2025 International Champions Prof Arunima Malik, Prof Zahra Kalantari, and Dr Zia Mehrabi, pictured with prize director Prof Jean-Claude Burgelman, Frontiers CEO and co-founder Dr Kamila Markram, and Chair of Jury of 100 Prof Johan Rockström

Frontiers Planet Prize: impact to date

10,000+
participating scientists

735
participating universities

23
participating national academies

62
national champions

10
international champions

$9.6 million
to support their research

"The creation of a world-leading prize that supports science taking a truly holistic view, integrating people and Earth systems at the planetary scale, is unique. Awarding three million-dollar prizes represents a major commitment and offers critical support for our ability to navigate the future, at a moment when caring for the planet in its entirety is essential. The Frontiers Planet Prize is a pioneer in terms of being at the frontier of the science that the world needs right now."

Prof Johan Rockström

Potsdam Institute for Climate Impact Research
Chairman of the Frontiers Planet Prize Jury of 100

From breakthrough to impact: International Champions for 2025

Our 2025 award ceremony in Villars-sur-Ollon as part of the Villars Symposium recognized 19 National Champions. The three International Champions were awarded USD 3 million collectively to accelerate the real-world impact of their work.

The event brought together leading academics, policymakers, and philanthropists to connect and amplify the transformative impact of the champions' work.

Prof Arunima Malik
The University of Sydney

Recognized for her groundbreaking work in sustainability economics, uncovering the hidden global supply-chain impacts driving carbon emissions, biodiversity loss, and social inequality.

Prof Zahra Kalantari
KTH Royal Institute of Technology

Celebrated for her work on integrating nature-based solutions in urban sectors, which explores how cities can reduce emissions through urban greening, reduced energy demands, and promoting sustainable behavior.

Dr Zia Mehrabi
University of Colorado Boulder

Honored for his pioneering work on transforming global food systems to restore biodiversity, strengthen resilience, and secure sustainable nutrition for a growing population.

"Winning the prize means a lot to me. First of all, it shows strong recognition that our work can help address climate change. Second, it helps us reach out to more people, not just other scientists but also governments and businesses. Third, it helps us connect with other researchers and experts from diverse backgrounds, sharing the same interests, so that we can turn our solutions into real action."

Dr Kok Sin Woon
Xiamen University Malaysia
3rd edition National Champion, Malaysia

"The prize is about more than recognition. It's about connecting science to action, amplifying impact, and joining a network of inspiring researchers tackling planetary boundary challenges worldwide."

Prof Peter Macreadie
RMIT University
1st edition National Champion, Australia

"Winning the prize is a validation of the hard work that my team and I have done. It will give us the visibility, credibility, and support to do more transformative science to address the critical planetary crisis and the societal challenges we are facing."

Prof Zahra Kalantari
KTH Royal Institute of Technology
3rd edition International Champion, Sweden

Frontiers at COP30: where open science accelerates climate action

Each year, the world's leaders meet at the Conference of the Parties (COP) to negotiate policy to address the threat of climate change, with the objective of defining realistic and effective action. COP30 took place in Brazil, on the edge of the Amazon rainforest, at a time when global climate targets were under significant strain.

Frontiers was in attendance and led three panel sessions which highlighted breakthrough technologies for planetary health and shared real climate solutions from researchers working hands-on with our changing environment.

The sessions featured Frontiers Planet Prize champions from across Latin America, including Prof. Carlos Peres, International Champion in 2023, who shared the significant impact his work has achieved since receiving the prestigious award.

COP30
Science driving Amazonian restoration

Watch the video

From breakthrough to impact: science driving Amazonian restoration

This session showcased how prize-winning research helped restore 15 million hectares of floodplain ecosystems, revive endangered species, and strengthen livelihoods across 140 communities.

- Dr João Vitor Campos-Silva, Instituto Jurua
- Prof Carlos Peres, University of East Anglia
- Prof Mercedes Bustamante, Universidade de Brasilia
- Dr Mariana Napolitano Ferreira, WWF Brasil
- Prof Andy Purvis, Natural History Museum UK

Mobilizing science for planetary impact: from breakthroughs to transformations

Science doesn't change the world until people use it. This panel brought together leading researchers to show how open, actionable science can transform entire regions, from the Amazon to fast-growing cities facing climate stress.

- Dr Fabiola S. Rodríguez, Autonomous Metropolitan University.
- Dr João Vitor Campos -Silva, Instituto Jurua
- Dr Ane Alencar, IPAM Amazonia

Emerging technology solutions for planetary health

This panel explored the emerging technologies featured in the Planetary Health Technologies Report (co-published with the World Economic Forum), that will help restore Earth's stability and speed up global warming solutions.

- Kirsten Dunlop, Climate KIC
- Tonika Sealy-Thompson, Barbados ambassador to Brazil
- Helen Elizabeth Burdett, World Economic Forum
- Prof Johan Rockström, Potsdam Institute for Climate Impact Research, Germany

Influencing global thinking on open science

Frontiers is a Center Partner with the World Economic Forum, associated to their Center for Frontiers Technologies. As partners, we collaborate on the co-publication of scientific reports, working with chief editors from our global editorial boards for their expertise and insight.

Emerging Technologies for Planetary Health

Pinpoints solutions positioned to lead nature and climate net-zero resilience strategies, highlights breakthrough science to address nature and climate challenges, and presents deployment strategies with a focus on the planetary boundaries.

Top 10 Emerging Technologies

Highlights innovations still in their early stages, anticipating emerging technologies that have the potential to reshape industries and societies.

Where scientists discuss science-led solutions for humanity's greatest challenges

Frontiers in Science Deep Dives

This year the Frontiers Forum hosted 11 Frontiers in Science Deep Dive webinars. Modeled on scientific symposia, these events bring researchers, policy experts, and innovators together from around the world to discuss a specific area of transformational science published in our flagship journal, Frontiers in Science, and explore next steps for the field.
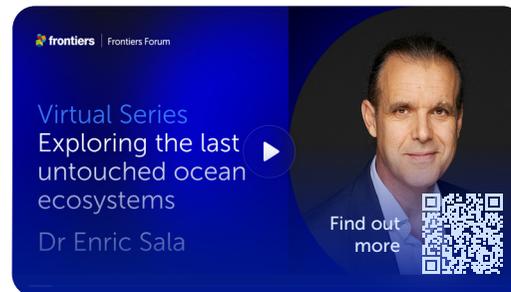
In 2025

57 speakers and panelists

22,583 attendees

118 countries represented

1.8 million video views

Frontiers Forum virtual keynote

Dr Enric Sala inspired us with a clear call-to-action in his keynote and Q&A session with science presenter Greg Foot: 'If we give the ocean space, it bounces back to life spectacularly faster than we ever imagined.'

The National Geographic Explorer in Residence took us on a journey into the wonders of pristine oceans and discussed his pioneering global conservation efforts to regenerate degraded marine ecosystems. He also highlighted the practical changes we can all make to preserve and protect our oceans.

19.7 million total video views for the Frontiers Forum series

"I was impressed that so many attendees from more than 80 countries participated in our deep dive webinar. It was a true honor to share the floor with such outstanding scientists."

Dr Rosa Rivero
Spanish National Research Council (CSIC), Frontiers in Science author

"It's a tremendous service to the scientific community to be promoting these panel discussions. They reach hundreds with the event and thousands more with the videos globally."

Harris Lewin
Arizona State University
Frontiers in Science author

frontiers
for Young Minds

Engaging the next generation
of curious minds

Frontiers for Young Minds is our scientific journal for young people.

Reviewers aged 8 to 15 review scientific articles to ensure that they are readable and suitable for their peers around the world. Articles are submitted by some of the world's most recognized scientists, including Nobel Prize Laureates.

Frontiers for Young Minds is free for all to access and read, and the articles have been read by tens of millions of children and their families internationally. The journal is published in English, Hebrew, Arabic, Chinese, and French.

10,500+
young reviewers

785
science mentors and editors in 65 countries

1,830
total published articles

60+ million
total views and downloads

62+ million
social media impressions in 2025

Awards and recognition for Frontiers for Young Minds in 2025

ALPSP Impact Award 2025, celebrating significant initiatives or projects within scholarly communication and academic research that are making a positive difference.

2025 EPIC Awards silver prize for Excellence in Magazines, from the Society of Scholarly Publishing.

Special mention in the Digital Reading Experience Award 2025 from Bologna Children's Book Fair: "a groundbreaking science engagement platform that redefines academic publishing."

The World Economic Forum Collection - Top 10 Emerging Technologies of 2024

Read the report

Young minds exploring emerging technologies

In 2025 we launched a new collection in partnership with the World Economic Forum focused on their Top 10 Emerging Technologies of 2024 report.

"These emerging technologies are going to be part of the future, but that future will be shaped by people. This collection has been crafted with and for the leaders of tomorrow and we hope that it sparks curiosity – for younger minds to ask questions, to think critically, and to imagine the possibilities the future holds."

Ruth Morgan
World Economic Forum
Frontiers for Young Minds collection editor

Our environmental impact

Sustainability is a key focus of everything we do, from providing a digital-first path for researchers to publish, to global initiatives like Frontiers Planet Prize. It's how we'll play our own part toward achieving healthy lives on a healthy planet.

As part of this, we're exploring new ways we can integrate sustainability into our products, daily operations, and communities.

Knowing our carbon footprint is a prerequisite to our sustainability commitment because it provides a clear and measurable starting point: by understanding the specific sources and amounts of greenhouse gas emissions we produce, we can identify key areas for improvement and set realistic targets for reduction. We partner with Plan A to collect, measure, and consolidate our emissions data.

For 2025, our overall carbon footprint measured 12,056 metric tons of carbon dioxide equivalent (tCO2e).

Our carbon footprint

We partner with **Plan A** to collect, measure, and consolidate our emissions data. Plan A is certified by **TÜV Rheinland** and is **Green House Gas Protocol** compliant.

Our overall carbon footprint for 2025 measured **12,056 metric tons** of carbon dioxide equivalent (tCO2e).

- **Scope 1** - 2.17 tCO2e - This corresponds to to direct emissions from sources we control, specifically related to fugitive emissions from refrigerant leakage and other similar sources in our main offices.
- **Scope 2** - 293.58 tCO2e - This corresponds to indirect emissions associated with purchased electricity and heating in our main offices.
- **Scope 3** - 11,760.19 tCO2e - Includes purchased goods and services, business travel, work from home, and emissions related to employee commuting. Emissions related to purchased goods and services have been calculated via spend-based factors for each supplier.

Emissions breakdown

By gathering emissions data from all our operations, we've established a comprehensive emissions baseline that enables us to monitor and reduce our carbon footprint.

Read the report

Key insights from 2025 footprint

- Purchased goods and services remain the largest source of emissions, representing over 80% of our total footprint, highlighting the importance of continuing to work closely with suppliers through our responsible business practices and Supplier Code of Conduct.

- Within the purchased goods and services category, digital infrastructure, software, hosting, and IT services remain key emissions hotspots.

- Emissions vary across our office locations due to differences in national electricity mixes.

Looking to the future

At Frontiers, we see quality and openness as inseparable. Open science is not only about access to published research, but about transparency across the entire research process – from methods and data to peer review and collaboration.

As new technologies reshape and enhance this process, our responsibility as a publisher is to ensure they are used ethically and purposefully. We'll continue to strengthen the safeguards and standards that build trust in the science we publish.

Innovation and rigor, shaping peer review

We already have the publishing industry's leading, cutting-edge review platform. But for us, innovation and improvement never stand still. In 2026 we're delivering an enhanced experience for our editors, authors, and reviewers.

A new-look platform allows researchers to collaborate like never before during peer review, working together directly on the manuscript. This enables more efficient and more transparent revisions.

We're also enabling reviewers to use our bespoke AI tools within a protected environment to conduct a faster, more complete and high-quality review.

As our own whitepaper set out in 2025, we're committed to offering trusted, secure AI tools and supporting researchers to use them responsibly, unlocking the potential of AI to strengthen the quality and impact of scientific review.
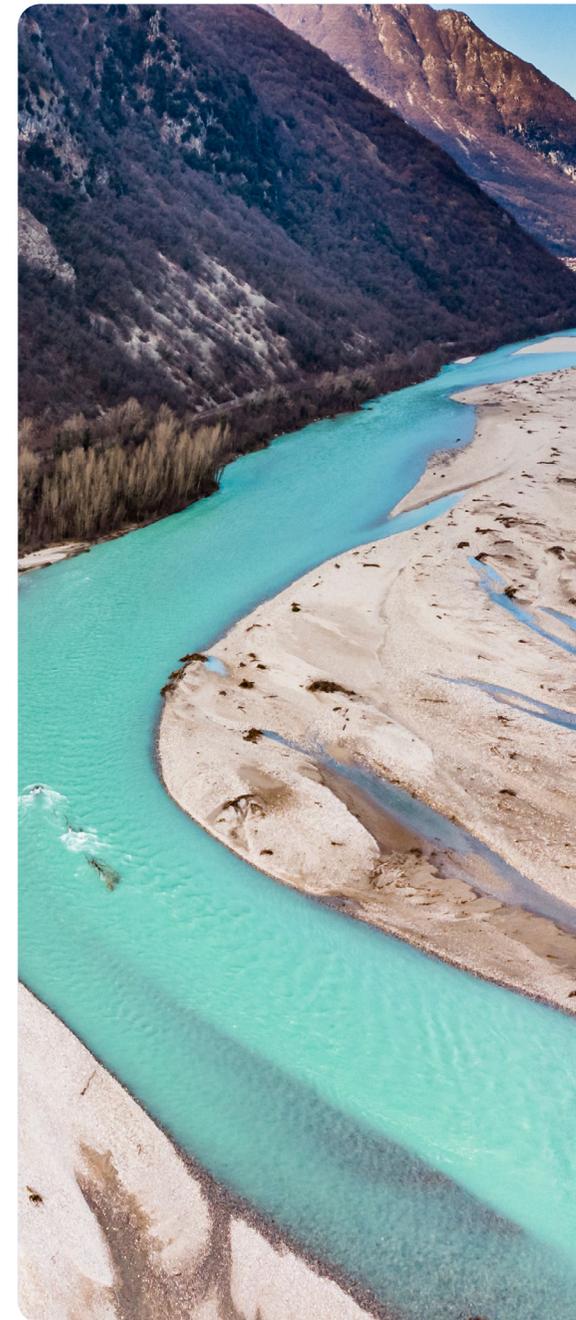
Putting open science on the global stage

Frontiers Planet Prize reaches its fourth edition in 2026 and will award three one-million dollar prizes to a new cohort of International Champions. With 735 institutions taking part, it will be our biggest edition yet and we look forward to recognizing more exceptional planetary science.

Frontiers Science House was launched in January 2026 to great acclaim from our partners, participating speakers, and attendees. After an extraordinary week of standing-room-only sessions with speakers from Microsoft, Novartis, CERN, and many other partners across industry, academia, and policy, we have firmly placed transformative science at the heart of the global agenda.

Frontiers Science House will return to Davos in early 2027 to build on this momentum, changing the way science impacts business and society.
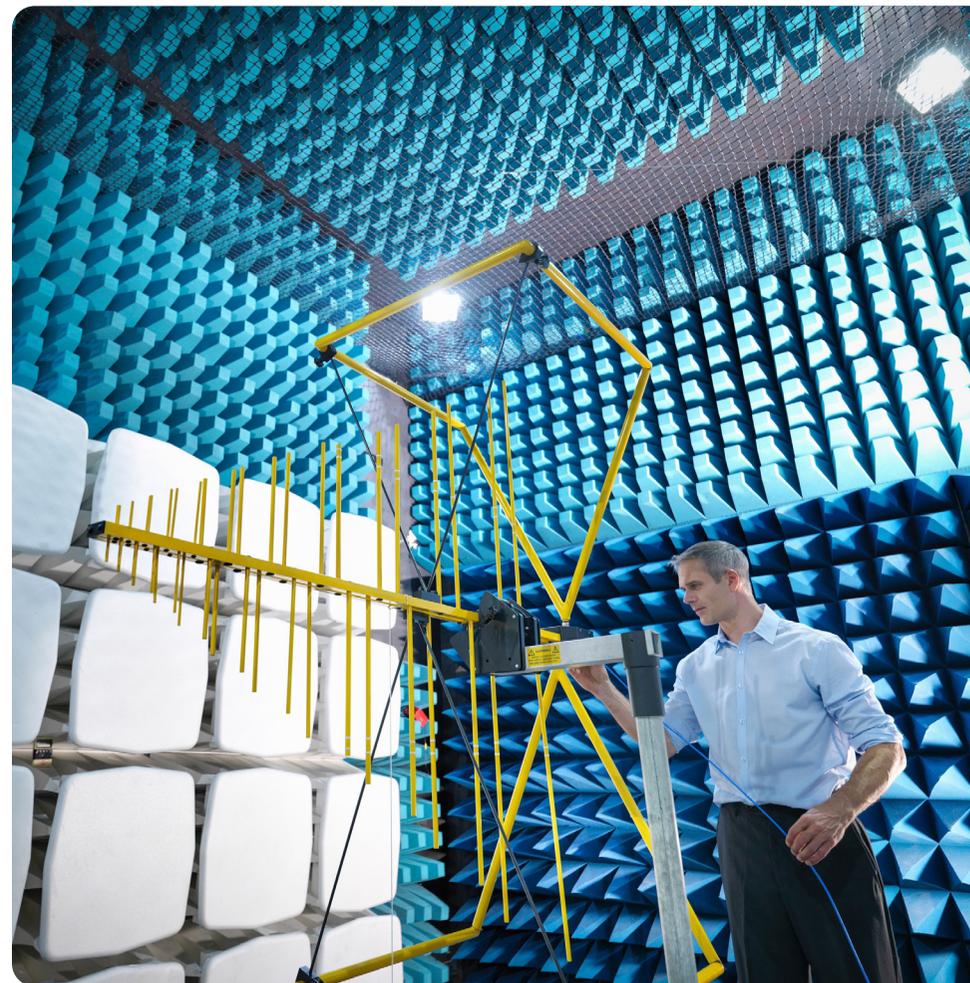
Accelerating science together

We're grateful to our authors, reviewers, editors, and partners for your ongoing trust and collaboration. Together, we are building an open science ecosystem capable of delivering the solutions the world needs, now and in the years ahead.

About us

Frontiers is one of the world's largest and most impactful research publishers, dedicated to making peer-reviewed, quality-certified science openly accessible. Our mission is to make science open, so that scientists can collaborate and innovate faster to deliver solutions for healthy lives on a healthy planet.

With more than three million researchers collaborating across 222 community-led journals covering 1,700 academic disciplines, we provide the scientific community with a trusted, cutting-edge, AI-powered open science platform to rigorously review their work and maximize the dissemination of their discoveries.

As an open access pioneer, we actively drive the global transition to open science, working with researchers, universities, educators, policymakers, and businesses. In line with our mission, our initiatives include Frontiers Science House, an event which puts transformative science at the center of policy discussions at the World Economic Forum Annual Meeting, the Frontiers Planet Prize, which recognizes and rewards breakthrough research that supports efforts to stabilize Earth's ecosystems, and Frontiers for Young Minds, a journal that engages children in the peer review process to inspire the next generation of researchers.

Our employees, known as Frontons, collaborating at two of our offices in Lausanne and London, and at workshops throughout the year.

frontiers

Where scientists empower society