



**Scientific publishing:**  
adding value, delivering impact

# **Adding value, delivering impact**

IOP Publishing provides a range of services that enable scientists to register, validate, edit, disseminate, preserve and maximise the discoverability and authority of their research

# ADDING VALUE, DELIVERING IMPACT

## DEVELOP JOURNALS AND THEIR BRANDS

- Appoint and support editorial boards to ensure journals meet the needs of their communities
- Create publishing “homes” for scientific communities
- Identify and track high-interest research areas for new journal launches
- Monitor growth areas of scientific research for journal special issues
- Maintain ethical standards
- Set and maintain quality standards
- Provide broad-based support for scientific communities (e.g. sponsorship of prizes, workshops and conferences)

## MANAGE PEER REVIEW

- Create and maintain a referee database
- Select referees and manage workloads so that referees do not receive multiple requests in short timeframes
- Pre-referee to filter out submissions that do not meet subject/quality criteria
- Produce training materials and workshops for referees
- Produce training materials for authors on preparing articles
- Provide pre-submission language editing in regional offices
- Invest in systems that detect plagiarism
- Develop and maintain online submission and peer-review systems
- Manage editorial processes to ensure constructive feedback for authors, efficient response times and the highest-quality published output

## PRODUCE ARTICLES FOR PUBLICATION

- Typeset articles
- Prepare XML articles from multiple submission formats
- Edit scientific papers to ensure consistency and clarity of meaning
- Work with authors to improve supporting illustrations and images
- Standardise references
- Proofread articles
- Print journals
- Publish articles online
- Liaise with authors
- Assign DOIs for unique identification of journal papers
- Handle manuscript submission via arXiv

## HOST AND DISTRIBUTE RESEARCH ONLINE

- Develop online journal platforms to provide the functionality that readers and librarians require
- Provide robust and reliable levels of online access
- Deliver content to mobile devices
- Provide RSS feeds
- Send alerts via e-mail
- Link to citations
- Link to related articles
- Authenticate for subscription access
- Innovate to ensure continuous improvement of journal platforms (e.g. video abstracts, display of mathematical formulae in MathJax, “more like this” features, interoperability)
- Manage corrections to articles (e.g. errata, corrigenda and retractions, linking the original article with the correction)

## ARCHIVE AND PRESERVE CONTENT

- Archive journals on our own servers and platform
- Digitise print backfiles of our journal archive
- Archive journals with trusted third parties (e.g. Portico, CLOCKSS)
- Collaborate with librarians, publishers and archiving service providers
- Review and update best practice in fields of e-journal archiving and preservation
- Implement policies on perpetual access to published research

## ENABLE DISCOVERY OF PUBLISHED RESEARCH

- Enrich journal articles to maximise discovery of published research (e.g. via semantic indexing)
- Invest in metadata services and standards
- Adhere to standards and invest in interoperability (e.g. CrossRef for reference deposition, CrossMark for article versioning, ORCID for author IDs, FundRef for funder metadata)
- Facilitate discovery via search, abstracting and indexing services
- Collaborate with community discovery services (e.g. INSPIRE, ADS, arXiv, PubMedCentral)
- Aid discovery beyond the author’s immediate peer group through services like video abstracts and LabTalk (enhanced abstracts for a wider audience)
- Collaborate with publishers and other stakeholders to support the use of text mining in scientific research

## **PUBLICISE JOURNAL PAPERS AND THEIR AUTHORS**

- Increase recognition and impact for authors
- Identify newsworthy papers and offer free promotional access in print, online and digital formats
- Publicise individual journal papers to national and international news media
- Publicise the best papers in IOP magazines and on our award-winning community websites
- Promote research papers and journals at international scientific conferences
- Recognise the best papers through journal prizes and Highlights of the Year programmes

## **COLLECT AND MAKE AVAILABLE METRICS AND STATISTICS**

- Provide article-level metrics on journal usage
- Implement metrics at the author level by investing in services like ORCID
- Develop journal-usage metrics for funding agencies
- Participate in standards initiatives relating to online usage and measurement (e.g. COUNTER, SUSHI)
- Help to develop and maintain appropriate industry standards

## **DISSEMINATE CONTENT PHYSICALLY AND DIGITALLY**

- Distribute online in multiple formats for multiple devices
- Distribute globally in print
- Provide print-on-demand services
- Provide pay-per-view access to individual articles
- Provide access via third-party document delivery services (e.g. British Library)
- Provide rental access via third-party services
- Manage copyright and licensing
- Enable dissemination of supplementary data
- Facilitate access to journal content for those with sensory disabilities
- Handle permissions to allow republishing of selected papers
- Manage plagiarism and piracy issues through to resolution and impose penalties where appropriate

## WORK WITH OPEN ACCESS PUBLISHING MODELS

- Launch and maintain open access journals to self-sustainability
- Offer authors and funding agencies open access publishing options in pure and hybrid journals
- Deposit articles in PubMedCentral and other repositories immediately on open access publication
- Use creative commons licences for open access publication to enable broad reuse
- Enable deposit of articles published on a subscription basis in institutional and other repositories after an embargo period
- Support arXiv and facilitate the workflow to submission in our journals
- Have clear guidelines for user rights
- Support authors with open access guidance where required

## SUPPORT SCIENCE IN DEVELOPING COUNTRIES

- Provide free or low-cost access to our journals in more than 100 developing and low-income countries through the EIFL, INASP and Research4Life programmes
- Provide scientists in the developing world with easy and no-charge e-mail access to individual articles through the eJournals Delivery Service of the Abdus Salam International Centre for Theoretical Physics
- Provide free-of-charge publishing services to many initiatives in scientific communications, including the UNESCO-sponsored SESAME project
- Make high-quality science journalism freely available (e.g. physicsworld.com and specialist online communities covering disciplines such as medical physics, nanotechnology and environmental science)
- Translate selected content (e.g. author and referee guides, regional websites) into seven languages

## Global presence, local knowledge

IOP Publishing has sales and editorial offices in six locations around the world, plus a network of staff based in other countries. Our cross-disciplinary publishing programme covers all key areas of the physical sciences and related research fields:

- Applied physics
- Atomic, molecular and optical physics
- Astronomy and astrophysics
- Chemical physics
- Computational science
- Condensed matter and materials science
- Environmental science
- General physics
- High-energy and nuclear physics
- Mathematics, applied mathematics and mathematical physics
- Measurement science and sensors
- Medical and biological sciences
- Physics education
- Plasma physics

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