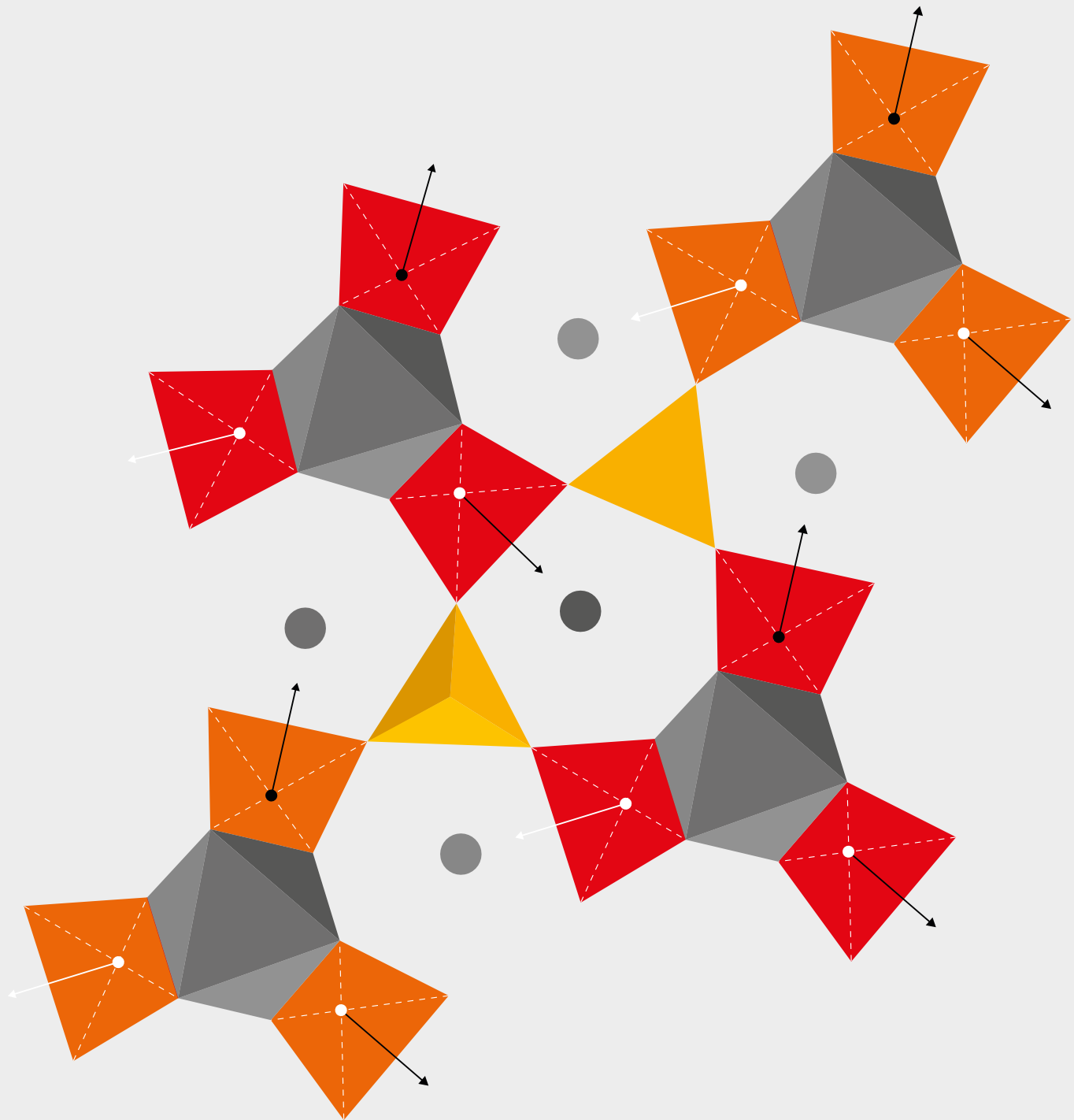


# IOP

## Product Catalogue 2021

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# About IOP Publishing

Working closely with the global scientific community has been at the heart of our publishing activity for more than a century.

With a portfolio that includes journals, books, conference proceedings and science news resources, we focus on physics, materials science, biosciences, astronomy and astrophysics, environmental sciences, mathematics and education. We also publish on behalf of other scientific organisations and represent their needs and those of their members.

With almost 400 staff in locations across the world, we support researchers, librarians and societies in their endeavours.

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Our journals, ebooks, conference proceedings and science journalism reflect the changing nature of scientific research. Explore our portfolio below, where you will find titles covering physics, materials science, biosciences, astronomy and astrophysics, environmental sciences, mathematics, and interdisciplinary sciences, including education.

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# New journals



## IOP SciNotes

A broad scope, open access journal dedicated to the rapid publication of short research outputs across the physical and environmental sciences. *IOP SciNotes* provides a forum for researchers to publish individual units of their scientific work (including preliminary results, and descriptions of scientifically valuable methods or datasets) that may be unsuited to the traditional full-length article format.

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## Materials for Quantum Technology

A multidisciplinary, open access journal devoted to publishing cutting-edge research on the development and application of materials for all quantum-enabled technologies and devices.

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## Nano Express

A new open access addition to IOP's established nanoscience programme publishing experimental, theoretical and applied research extending across all areas of nanoscale science and technology.

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## New for 2021

Look out for two new further additions to our open access journals programme that will extend our subject coverage further within environmental and computational science. Both journals are now open for submissions and will publish their first content in Spring 2021.

### Environmental Research: Infrastructure and Sustainability

A further expansion to our *Environmental Research* series dedicated to addressing important challenges relating to infrastructure, sustainability and resilience that will form a multidisciplinary forum for communities extending across environmental research, engineering, the social sciences and humanities, and policy influencers.

### Neuromorphic Computing and Engineering

A multidisciplinary journal that will bring together physics, materials science, engineering, neuroscience and computer science relevant to the design, development and application of novel artificial neural networks and systems.

## Launching new journals

We operate in a research landscape where traditional boundaries between subject communities have merged, and the role of physics in driving new discovery across the physical sciences is greater than ever before. The development of our portfolio not only needs to reflect an increasingly multidisciplinary picture but must also respond to the changing demands from the research community on academic journals. We need to have publishing options that give the right choice in terms of subject coverage, readership, quality assurance, publishing service, content type and publishing model. These are the factors, informed through our direct collaboration with the community, that shape the selective way in which we continue to expand our journals programme to responsibly represent researcher demand across the physical sciences.



# ECS Digital Archives

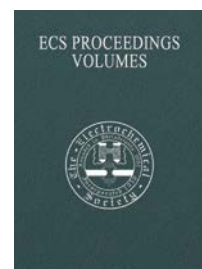
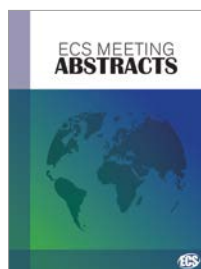
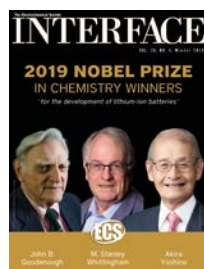
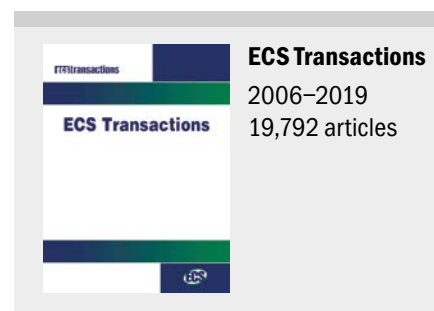
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Gerd Binnig

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Jean-Marie Lehn

### 1992 Nobel Prize in Chemistry

Rudolph A Marcus

### 1996 Nobel Prize in Chemistry

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### 1997 Nobel Prize in Physics

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### 2000 Nobel Prize in Physics

Jack Kilby

### 2014 Nobel Prize in Physics

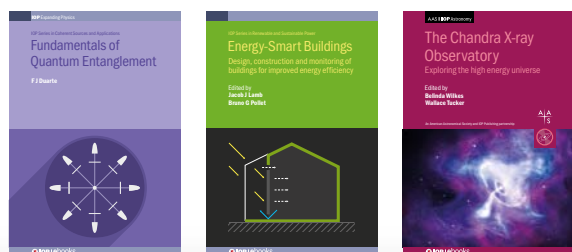
Isamu Akasaki, Hiroshi Amano  
and Shuji Nakamura

### 2019 Nobel Prize in Chemistry

John B Goodenough, M Stanley Whittingham  
and Akira Yoshino

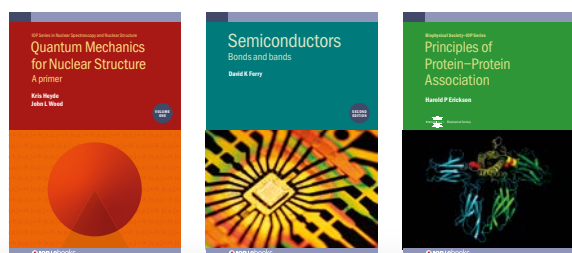
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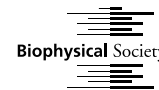
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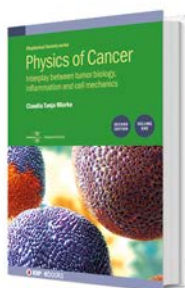
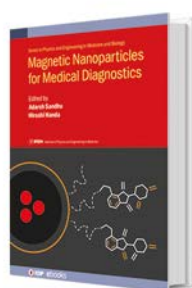


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## Our journals

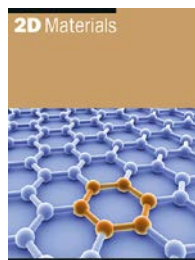
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Volume	8
Frequency	4
Online ISSN	2053-1583
CODEN	DMATB7

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*2D Materials*<sup>™</sup> (2DM) publishes fundamental and applied research of the highest quality and impact, covering all aspects of graphene and related 2D materials.

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- boron nitride
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- 2D topological insulators

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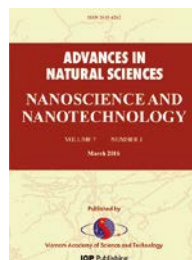
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## Advances in Natural Sciences: Nanoscience and Nanotechnology

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Volume	12
Frequency	4
Online ISSN	2043-6262
CODEN	ANSNCK

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*Advances in Natural Sciences: Nanoscience and Nanotechnology* (ANSN) produces quarterly issues of research covering all aspects of nanoscience and nanotechnology, including the fundamental physics, optics, photonics, chemistry, biology and technology of nanometre-scale materials and devices, for applications in quantum computation, smart lighting, energy generation and storage, sensors, health care, agricultural production, and environmental protection.

ANSN supports the international community, publishing research from around the world and acting as an information resource for its international readership – including primary researchers, industry professionals and undergraduate nanotechnology students.

Published using the gold open access model between 2010 and 2018, ANSN has been published on a subscription basis from 2019 onwards.

A corresponding print version is created for local use in Vietnam.

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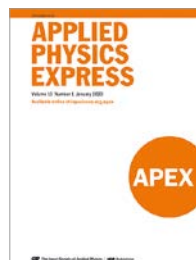
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# Applied Physics Express

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Volume	14
Frequency	12
Online ISSN	1882-0786
Print ISSN	1882-0778
CODEN	APEPC4

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*Applied Physics Express* (APEX) is a letters journal devoted solely to rapid dissemination of up-to-date and concise reports on new findings in applied physics. The main focus of the Editorial Board is the high scientific and/or technological impact of its published papers.

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- nanoscale science and technology
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- crystal growth, surfaces, interfaces, thin films and bulk materials
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# The Astronomical Journal

[iopscience.org/aj](http://iopscience.org/aj)



Volume	161–162
Frequency	12
Online ISSN	1538-3881
CODEN	ANJOAA

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*The Astronomical Journal* (AJ) is a peer-reviewed, monthly journal published for the American Astronomical Society by IOP Publishing. It serves an international community of authors, scientists and students through its high-quality, rapid publication and accessible communication of a broad range of astronomical research, extending from the solar system to observational cosmology.

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AJ actively seeks opportunities to enhance electronic presentations of information. Features include the provision of tabular data underlying figures and the compilation of related articles into electronic special issues. High citation rates, affordable subscription pricing and a worldwide circulation base establish AJ as a premier journal in refereed publication of astronomical and astrophysical research from throughout the world.

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Volume	906-923
Frequency	36
Online ISSN	1538-4357
CODEN	ASJOAB

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This prestigious journal has been the first to report many of the classic discoveries of the 20th century and has also presented much of the important recent work on quasars, pulsars, neutron stars, black holes, solar and stellar magnetic fields, X-rays and interstellar matter.

ApJ has a long history of publishing papers on data and instruments that support astronomical observations and theory. These papers represent essential research for anyone working in the fields of astronomy and astrophysics.

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Volume	906-923
Frequency	36
Online ISSN	2041-8213
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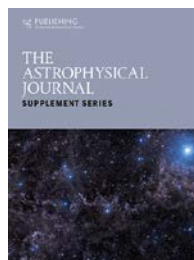
American Astronomical Society





# The Astrophysical Journal Supplement Series

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Volume	252-257
Frequency	12
Online ISSN	1538-4365
CODEN	APJSA2

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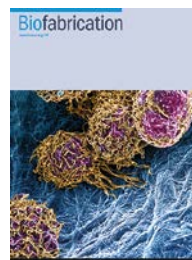
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# Biofabrication

[iopscience.org/bf](http://iopscience.org/bf)



Volume	13
Frequency	4
Online ISSN	1758-5090
CODEN	BIOFFN

## Editor-in-chief

Wei Sun, Drexel University, PA, USA, and Tsinghua University, Beijing, China

*Biofabrication* (BF) is the first peer-reviewed journal to focus on research and development of biomanufacturing processes, modelling and design.

Biofabrication publishes research on the use of cells, proteins, biological materials and biomaterials as building blocks to manufacture biological systems and/or therapeutic products. BF is the leading journal in bioprinting and a highly respected resource for engineers, biologists and medical researchers all over the world.

BF publishes articles covering a range of research topics from this important and rapidly developing field, including:

- cell, tissue and organ printing, patterning and assembly
- biofabricated cell/biological material integrated systems and medical devices
- cell-laden micro-fluidic devices
- cell/tissue/organ-on-a-chip
- novel 3D tissue scaffold fabrication
- modelling of the biofabrication processes and biofabricated constructs
- protein/biomolecules printing, patterning and assembly
- integrated bio- and micro/nano-fabrication

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# Bioinspiration & Biomimetics

[iopscience.org/bb](http://iopscience.org/bb)



Volume	16
Frequency	6
Online ISSN	1748-3190
CODEN	BBIICI

## Editor-in-chief

Robert J Full, University of California, Berkeley, USA

*Bioinspiration & Biomimetics*™ (BB) has two principal aims: to draw from biology to enrich engineering and to draw from engineering to enrich biology. The journal communicates research focusing on the principles and functions found in biological systems that have been developed through evolution, and application of this knowledge to produce novel and exciting basic technologies as well as new approaches to solving scientific problems.

BB provides a forum for interdisciplinary research from across the biological and physical sciences, including:

- bioinspired robotics
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- communication and navigation
- co-operative behaviour
- self-organising biological systems
- self-healing and self-assembly
- aerial locomotion and aerospace applications of biomimetics
- biomorphic surface and subsurface systems
- marine dynamics: swimming and underwater dynamics
- biomechanics: movement, locomotion and fluidics
- cellular behaviour
- sensors and senses
- biomimetic or bioinformed approaches to geological exploration

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# Biomedical Materials

[iopscience.org/bmm](http://iopscience.org/bmm)



Volume	16
Frequency	6
Online ISSN	1748-605X
CODEN	BMBUCS

## Editor-in-chief

Jianwu Dai, Center for Regenerative Medicine and Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, People's Republic of China

*Biomedical Materials*™ (BMM) publishes articles on advances in biomaterials that contribute to the research community's knowledge of the composition, properties and performance of materials for all applications relevant to human healthcare.

With a diverse readership drawn from the biomedical and tissue engineering, materials and biomaterials, biochemistry, pharmacology, and medicine communities, this specialised journal delivers a combination of Topical Reviews, Special Issue articles, Notes and Editorials covering a diverse range of topics, including:

- synthesis/characterisation of biomedical materials
- *in vitro/in vivo* performance of biomedical materials
- nature-inspired synthesis and biomineralisation
- tissue engineering/regenerative medicine applications
- interaction of molecules/cells with materials
- effects of biomaterials on stem-cell behaviour
- growth factors/genes incorporated into biomaterials
- clinical applications of biomedical materials for cell therapies in disease
- nanomedicine, nanotoxicology and nanopathology
- pharmacokinetic considerations in drug delivery systems
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# Biomedical Physics & Engineering Express

[iopscience.org/bpex](http://iopscience.org/bpex)



Volume	7
Frequency	6
Online ISSN	2057-1976
CODEN	BPEEAE

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Robert Jeraj, University of Wisconsin, WI, USA

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*Biomedical Physics & Engineering Express*™ (BPEX) is an inclusive, international, multidisciplinary journal devoted to publishing new research on any application of physics and/or engineering in medicine and/or biology. The journal covers three key independent, yet complementary scientific areas at the intersection of physics, engineering, medicine and biology. All areas of biomedical engineering, biophysics and medical physics are covered, with a special emphasis on the interdisciplinary work within these areas to help promote crossover research.

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# Chinese Physics B

[iopscience.org/cpb](http://iopscience.org/cpb)



Volume	30
Frequency	12
Online ISSN	2058-3834
Print ISSN	1674-1056
CODEN	CPBHJ

## Editor-in-chief

ZC Ouyang, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China

Widely recognised as one of China's top journals, *Chinese Physics B* (CPB) continues to publish research papers in all areas of theoretical and applied physics, with the exception of nuclear physics and the physics of elementary particles and fields, reflecting the high quality and wide scope of Chinese research.

The journal's broad focus makes it an important source of current research in physics, materials, mechanics and engineering.

CPB's scope includes many areas of high-interest physics research:

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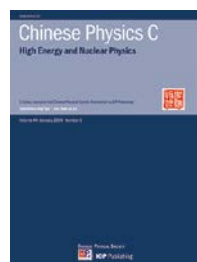
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# Chinese Physics C

[iopscience.org/cpc](http://iopscience.org/cpc)



Volume	45
Frequency	12
Online ISSN	2058-6132
Print ISSN	1674-1137
CODEN	CPCHCQ

## Editor-in-chief

YF Wang, Institute of High-Energy Physics, Chinese Academy of Sciences, Beijing, China

*Chinese Physics C* (CPC) was founded in 1977 and covers theory, experiments and applications in the fields of particle physics, nuclear physics, astrophysics and cosmology.

The journal publishes the latest developments and achievements in the theory, experiment and applications of:

- particle physics
- nuclear physics
- particle and nuclear astrophysics
- cosmology

The journal publishes original research papers, letters and reviews. The letters section covers short reports on the latest important scientific results, published as quickly as possible. Such breakthrough research articles have very high priority for publication. High-quality research papers and rapid communications published in CPC, such as the latest Atomic Mass Evaluation (AME), make it a key resource for researchers in high-energy and nuclear physics.

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# Chinese Physics Letters

[iopscience.org/cpl](http://iopscience.org/cpl)



Volume	38
Frequency	12
Online ISSN	1741-3540
Print ISSN	0256-307X
CODEN	CPLLEU

## Editor-in-chief

Tao Xiang, Institute of Physics, Chinese Academy of Sciences, Beijing, China

*Chinese Physics Letters* (CPL) attracts a growing, international readership, which strengthens the journal's coverage of major advances in all aspects of physics.

Letters are an increasingly important aspect of international research. CPL fulfils this requirement as the flagship letter journal of the Chinese Physical Society.

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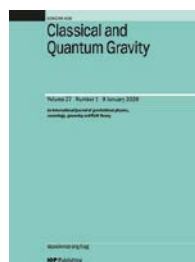
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# Classical and Quantum Gravity

[iopscience.org/cqg](http://iopscience.org/cqg)



Volume	38
Frequency	24
Online ISSN	1361-6382
Print ISSN	0264-9381
CODEN	CQGRDG

## Editor-in-chief

Gabriela González, Louisiana State University, USA

As the world's leading gravitational physics journal, *Classical and Quantum Gravity*™ (CQG) is widely read and well cited thanks to its focus on the highest-quality research. CQG is a popular choice among physicists, mathematicians and cosmologists in the fields of gravitation and the theory of space–time, and is valued by both theorists and experimentalists.

CQG subscribers have access to high-quality papers on many subjects, including:

- classical general relativity
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- mathematical physics

In addition to regular research papers, CQG also publishes Topical Reviews and solicits articles for Focus Issues on high-interest subjects, resulting in an overview of the most interesting research in this field. The findings are placed in the wider context of gravitational physics, a significant added benefit for any reader. Additionally, CQG welcomes a variety of other article types including Letters, Comments, Brief Reviews and Notes.

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# Communications in Theoretical Physics

[iopscience.org/ctp](http://iopscience.org/ctp)



Volume	73
Frequency	12
Online ISSN	1572-9494
Print ISSN	0253-6102
CODEN	CTPHDI

## Chief editor

CP Sun, Graduate School of China Academy of Engineering Physics (GSCAEP) & Beijing Computational Science Research Center (CSRC), Beijing 100193, China

*Communications in Theoretical Physics* (CTP) reports new developments in theoretical physics, including:

- mathematical physics
- quantum physics and quantum information
- particle physics and quantum field theory
- nuclear physics
- gravitation theory, astrophysics and cosmology
- atomic, molecular, optical (AMO) and plasma physics, chemical physics
- statistical physics, soft matter and biophysics
- condensed matter theory

Interdisciplinary areas such as biophysics, mathematical physics and computational physics are also covered by CTP.

In addition to original research articles, letters, research notes and rapid communications, CTP also publishes review articles. All article submissions, peer review and production – from acceptance to publication – are supported by the Institute of Theoretical Physics, Chinese Academy of Sciences.

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# ECS Journal of Solid State Science and Technology

[iopscience.org/jss](http://iopscience.org/jss)



Volume	10
Frequency	12
Online ISSN	2162-8777
CODEN	EJSSBG

## Editor-in-chief

Krishnan Rajeshwar, University of Texas at Arlington, USA

*ECS Journal of Solid State Science and Technology (JSS)* was launched in 2012, and is published by IOP Publishing on behalf of The Electrochemical Society. The journal publishes outstanding research covering fundamental and applied areas of solid state science and technology, including experimental and theoretical aspects of the chemistry and physics of materials and devices.

JSS has five topical interest areas:

- carbon nanostructures and devices
- dielectric science and materials
- electronic materials and processing
- electronic and photonic devices and systems
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# Electronic Structure

[iopscience.org/est](http://iopscience.org/est)



Volume	3
Frequency	4
Online ISSN	2516-1075
CODEN	ESLTAC

## Editors-in-chief

- Risto Nieminen, Aalto University, Finland
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*Electronic Structure™ (EST)* is a multidisciplinary journal covering all theoretical and experimental aspects of electronic structure research, including the development of new methods. EST is the first journal dedicated to serving the entire electronic structure community, spanning materials science, physics, chemistry and biology. EST publishes papers using any theoretical or experimental techniques to study any aspect of electronic structure.

As well as original research papers, EST offers authoritative topical reviews, invited focus collections, and technical notes. Technical notes must demonstrate a new computational or experimental methodology, or an improvement to existing methods, with proof of application.

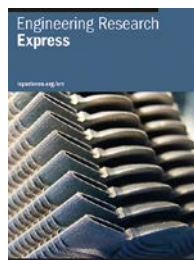
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# Engineering Research Express

[iopscience.org/erx](http://iopscience.org/erx)



Volume	3
Frequency	4
Online ISSN	2631-8695
CODEN	ERENBL

## Editor-in-chief

Jingyan Dong, North Carolina State University, USA

*Engineering Research Express*™ (ERX) is a broad, multidisciplinary journal devoted to publishing new experimental and theoretical research covering topics extending across all areas of engineering science including interdisciplinary fields. The journal is committed to fast review and operates a transparent editorial selection and feedback process focused on the scientific rigour of the work, rather than its perceived impact or novelty. The journal is characterized by article-length flexibility and a fast-track peer-review process.

Topics of particular interest include:

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- mechanical engineering – including aeronautical engineering, automotive engineering, materials engineering and vacuum engineering
- civil engineering – including environmental engineering, hydraulic engineering, ocean and geographical engineering, and structural engineering
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# Environmental Research Communications

[iopscience.org/erc](http://iopscience.org/erc)



Volume	3
Frequency	12
Online ISSN	2515-7620
CODEN	ERCNCC

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The journal does not make a subjective assessment on the potential future significance of a paper, instead it provides a rapid platform for communicating research that meets high standards of scientific rigour and contributes to the development of our knowledge of the environment.

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# Environmental Research Letters

[erl.iop.org](http://erl.iop.org)



Volume	16
Frequency	12
Online ISSN	1748-9326
CODEN	ERLNAL

## Editor-in-chief

D M Kammen, University of California, Berkeley, CA, USA

*Environmental Research Letters*™ (ERL) is published under the gold open access model and offers authors the option to publish raw data alongside their articles as supplementary data, providing free access to this data for all researchers.

ERL is the meeting place for the research and policy communities concerned with environmental change and management. The journal covers all of environmental science; its coherent and integrated approach includes research letters, review articles, perspectives and editorials. ERL communicates new results and findings that merit rapid publication. The journal's coverage reflects the interdisciplinary nature of environmental science and the wide range of contributions to the development of methods, tools and evaluation strategies relevant to the field.

ERL's diverse scope ranges from physical and natural sciences to economics, political, sociological and legal studies, including:

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# Environmental Research: Infrastructure and Sustainability

[iopscience.org/eris](http://iopscience.org/eris)



Volume	1
Frequency	4
Online ISSN	2634-4505
CODEN	ERISAL

## Editor-in-chief

Arpad Horvath, University of California, Berkeley, USA

*Environmental Research: Infrastructure and Sustainability*™ (ERIS) is a multidisciplinary, open access journal that addresses important challenges relevant to infrastructure, sustainability and resilience in their broadest sense. Encompassing environmental, economic and social factors, all research methodologies are encouraged covering qualitative, quantitative, experimental, theoretical and applied approaches to the field.

Bringing together communities extending across environmental research, engineering, the social sciences and humanities as well as policy influencers (within academia, government, industry and the civic sphere) the journal covers infrastructure from broad and inclusive perspectives at global, regional, national and local scales, including current and emerging issues to wherever humanity's influence extends, from single products to networked systems.

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Volume	133–136
Frequency	24
Online ISSN	1286-4854
CODEN	EPLAC4

**Editor-in-chief**

Bart van Tiggelen, Université Grenoble, CNRS, Grenoble, France

EPL (formerly *Europhysics Letters*) has been in constant publication since its creation in 1986 from the merger of *Journal de Physique Lettres* with *Lettere al Nuovo Cimento*.

A Letters journal serving all areas of physics and its related fields, EPL publishes the highest quality research from around the world, and provides authors with fast, fair and constructive peer review thanks to an Editorial Board of active scientists, who are experts in their respective fields.

Over 24 online issues per year, EPL publications are focused on novel, scientifically significant, developing areas of science. This is exemplified by the journal's series of Focus Issues, which have included Self-assemblies of Inorganic and Organic Nanomaterials, Evolutionary Modeling and Experimental Evolution, and Quantum Engineering.

EPL enjoys the benefits of international partnership. It is co-managed by scientists for the international scientific community, and published under the scientific policy and control of the European Physical Society by EDP Sciences, IOP Publishing and Società Italiana di Fisica for a partnership of 17 European physical societies (the EPL Association).

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Volume	42
Frequency	6
Online ISSN	1361-6404
Print ISSN	0143-0807
CODEN	EJPHD4

**Editor-in-chief**

M Čepič, University of Ljubljana, Slovenia

With a worldwide readership and authors from every continent, *European Journal of Physics* (EJP) is a truly international journal dedicated to maintaining and improving the standard of taught physics in universities and other higher education institutes.

Examples of the wide-ranging EJP content include; original physics education research and examples of how this research can inform the teaching and learning of physics at university level; original insights into the derivation of results; descriptions of novel laboratory exercises; descriptions of successful and original student projects (whether experimental, theoretical or computational); reviews of contemporary physics at a level accessible to physics students and teachers.

EJP is a place for teachers, instructors and professors to share their experiences and views on teaching physics at university level. It is an essential point of reference for anyone involved in physics education, including teacher trainers in physics, engineering and education departments. It produces resources for colleges and universities, companies with an education programme, government-funded bodies and government-funding departments.

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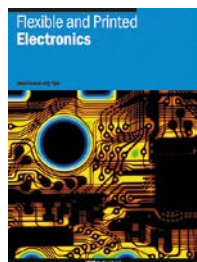
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## Flexible and Printed Electronics

[iopscience.org/fpe](http://iopscience.org/fpe)



Volume	6
Frequency	4
Online ISSN	2058-8585
CODEN	FPELAB

### Editor-in-chief

Ronald Österbacka, Åbo Akademi University, Finland

Launched in 2015, *Flexible and Printed Electronics*™ (FPE) is a multidisciplinary journal devoted to publishing cutting-edge research across all aspects of printed, plastic, flexible, stretchable and conformable electronics.

Uniquely bridging fundamental science and novel applications, the scope and characteristics of FPE have been shaped to meet the demands of researchers based in both academia and industry, working across this rapidly developing field. The journal's aim is to serve as a unique international forum that brings together both fundamental science and novel technological applications to advance progress in the field.

FPE publishes timely research articles of the highest scientific quality, on the following subjects:

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- printed materials, ink formulations and rheology and printing systems
- device physics, device mechanics and engineering
- circuit and system design
- advanced fabrication methods and metrology
- printing of biological systems interfaced to electronic devices
- mechanical, thermal and electronic modelling of flexible hybrid electronic systems and components
- applications including displays, lighting, sensors and actuators, bioelectronics, medical electronics, photovoltaics, energy harvesting and storage, RF electronics, smart packaging and IoT devices/systems

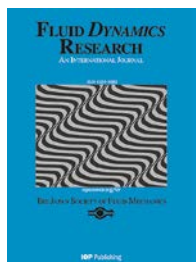
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## Fluid Dynamics Research

[iopscience.org/fdr](http://iopscience.org/fdr)



Volume	53
Frequency	6
Online ISSN	1873-7005
CODEN	FDRSEH

### Editor-in-chief

Yasuhide Fukumoto, Institute of Mathematics for Industry, Kyushu University, Japan

*Fluid Dynamics Research* (FDR) is published on behalf of The Japan Society of Fluid Mechanics. This international journal caters for researchers in all areas of fluid dynamics, including: aerodynamics, nano-fluids, fluid motion or modelling, turbulence, waves, rogue waves, vortices, bifurcation, bubbles, gas–liquid boundaries and computational fluid dynamics.

FDR's scope includes theoretical, numerical and experimental studies that contribute to the fundamental understanding and/or application of fluid phenomena. The journal's broad coverage features invited reviews and original papers on topical subjects by leading researchers in this interdisciplinary field.

Each year, FDR's Editorial Board selects an outstanding article published in the previous year to be awarded the FDR Prize. This article must contain rigorous scientific work, be highly novel, exhibit a significant advancement to the field and, above all, be an extremely interesting read.

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# Functional Composites and Structures

[iopscience.org/fcs](http://iopscience.org/fcs)



Volume	3
Frequency	4
Online ISSN	2631-6331
CODEN	FCSUAH

## Editor-in-chief

Woong-Ryeol Yu, Seoul National University, Seoul, Korea

*Functional Composites and Structures* (FCS) is an international journal co-owned by the Korean Society for Composite Materials (KSCM) and IOP Publishing.

Functional composites and structures are essential to the creation of next-generation technologies and cultures in the fourth industrial revolution. Advances in this area will promote human welfare by overcoming global energy and environmental crises and climate change. In addition, new knowledge in this field will facilitate innovative advancements in living necessities, mobile devices, sporting goods, transportation (land, marine, and aerospace), energy and environmental applications, and will aid in the creation of a variety of new competitive industries.

This journal will support the development of these important fields and provides authors with a home for the functional aspects of composite materials research.

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# International Journal of Extreme Manufacturing

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Volume	3
Frequency	4
Online ISSN	2631-7990
CODEN	IJEMKF

## Editors-in-chief

- Dongming Guo, Dalian University of Technology, People's Republic of China
- Yongfeng Lu, University of Nebraska-Lincoln, USA

The *International Journal of Extreme Manufacturing* is a multidisciplinary journal uniquely covering the areas related to extreme manufacturing. Extreme manufacturing is specifically manifested in manufacturing with extremely high-energy density, ultrahigh precision, extremely small spatial and temporal scales, extremely intensive fields, and giant systems with extreme complexity and number of factors.

The journal is devoted to publishing original research of the highest quality and impact in the area, ranging from fundamentals to process, metrology, conditions, environments, and system integration. Topics of interest, but not limited to:

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- approaches and theories of processing
- metrology and characterization
- equipment and systems
- extreme conditions

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# Inverse Problems

[iopscience.org/ip](http://iopscience.org/ip)



Volume	37
Frequency	12
Online ISSN	1361-6420
Print ISSN	0266-5611
CODEN	INPEEY

## Editor-in-chief

O Scherzer, University of Vienna, Austria

*Inverse Problems*<sup>™</sup> (IP) is an interdisciplinary journal that combines mathematical and experimental papers on inverse problems with numerical and practical approaches to their solution. IP is a key resource for mathematicians, physicists, engineers and scientists working in:

- geophysics
- radar
- optics
- biology
- acoustics
- communication theory
- signal processing
- medical imaging
- inverse-scattering techniques
- object identification

The journal's scope includes original contributions to methods of solving mathematical, physical and applied problems. All papers published in IP meet the highest standards of scientific quality, contain significant and original new science, and present substantial advancement in the field. IP ensures that all authors provide sufficient introductory material to appeal to its broad readership and that articles that are not explicitly applied include a discussion of possible applications.

For those looking for further exploration of particular topics, IP regularly publishes thematic Special Issues that focus on research in key and emerging areas.

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# IOP SciNotes

[iopscience.org/iopsn](http://iopscience.org/iopsn)



Volume	2
Frequency	4
Online ISSN	2633-1357
CODEN	ISOCCM

*IOP SciNotes*<sup>™</sup> is a new open access journal that enables researchers to publish individual stages or units of their research work, allowing anyone to validate, share and discover a wider range of scientific research. The journal supports open, transparent and reproducible approaches to scientific discovery and has been designed as a formal publication forum for valuable scientific material that may not be in a format ready or appropriate for publication as a traditional full-length article.

Articles in *IOP SciNotes* are characterised by length and format and the journal welcomes the following study types in Note form:

- New results and/or observations
- Negative or reproduced results and/or observations
- Descriptions of a new method or protocol
- Descriptions of new data or code that enable others to use and understand them (with citation to the full dataset located in an open repository)
- Registered methodological reports (describing a new method prior to conducting the research and collecting data)

The subject scope of the journal includes the following broad areas: physics, materials, bioscience and medical physics, environment and energy, chemistry, engineering, mathematics and computation.

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# Izvestiya: Mathematics

[iopscience.org/im](http://iopscience.org/im)



Volume	85
Frequency	6
Online ISSN	1468-4810
Print ISSN	1064-5632

## Editor-in-chief

V V Kozlov, V A Steklov Mathematical Institute, Russian Academy of Sciences, Moscow, Russia

## Deputy editor

A G Sergeev, V A Steklov Mathematical Institute, Russian Academy of Sciences, Moscow, Russia

*Izvestiya: Mathematics* (IM) is the English edition of the Russian bimonthly journal *Izvestiya Rossiiskoi Akademii Nauk, Seriya Matematicheskaya*, which was founded in 1937.

The journal publishes only original research papers containing full results. Whilst the coverage spans all fields of mathematics, special attention is given to general algebra, mathematical logic, mathematical analysis, geometry, topology and differential equations.

The original Russian version is reproduced in English in less than three weeks, allowing researchers to access the latest research promptly.

## Online archive

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# Japanese Journal of Applied Physics

[iopscience.org/jjap](http://iopscience.org/jjap)



Volume	60
Frequency	12 + 8 special issues
Online ISSN	1347-4065
Print ISSN	0021-4922
CODEN	JJAPB6

## Chief executive editor

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## Editor-in-chief

Kouichi Ono, Kyoto University/Osaka University, Japan

The *Japanese Journal of Applied Physics* (JJAP) is an international journal published by IOP Publishing on behalf of The Japan Society of Applied Physics for the advancement and dissemination of knowledge in all fields of applied physics.

The journal publishes articles dealing with the applications of physical principles, as well as articles concerning the understanding of physics that have particular applications in mind. Articles in interdisciplinary areas with potential technological implications are strongly encouraged.

JJAP includes Regular Papers, Rapid Communications, Brief Notes and Review Papers. In addition, several Special Issues are published each year. These contain research articles presented at international conferences that have been peer-reviewed in accordance with the usual JJAP criteria.

There is also a special section, "Selected Topics in Applied Physics", which highlights specific topics and features rapidly developing current trends in these areas.

## Online archive

1962–2021

## Partner

The Japan Society of Applied Physics



# Journal of Breath Research

[iopscience.org/jbr](http://iopscience.org/jbr)



Volume	15
Frequency	4
Online ISSN	1752-7163
CODEN	JBROBW

## Editor-in-chief

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- R Dweik, Cleveland Clinic, OH, USA
- T H Risby, The Johns Hopkins University, Baltimore, MD, USA

*Journal of Breath Research*™ (JBR) is dedicated to all aspects of scientific breath research. The traditional focus is on analysis of volatile compounds and aerosols in exhaled breath for the investigation of exogenous exposures, metabolism, toxicology, health status and the diagnosis of disease and breath odours. The journal also welcomes other breath-related topics.

Typical areas of interest include:

- big laboratory instrumentation for breath research
- engineering solutions: developing new breath sampling technologies
- human and animal *in vivo* studies: decoding the “breath exposome”
- cellular respiration
- breath-based clinical, pharmacological and forensic applications
- mathematical, statistical and graphical data interpretation

JBR is the Official Journal of the International Association for Breath Research (IABR).

## Online archive

2011–2021 available free with journal subscription  
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# Journal of Cosmology and Astroparticle Physics

[iopscience.org/jcap](http://iopscience.org/jcap)



Volume	19
Frequency	12
Online ISSN	1475-7516
CODEN	JCAPBP

## Scientific director

Viatcheslav Mukhanov, Arnold Sommerfeld Center for Theoretical Physics, Munich, Germany

*Journal of Cosmology and Astroparticle Physics* (JCAP) is an electronic-only journal jointly owned and published by the International School for Advanced Studies (SISSA) and IOP Publishing. Highly cited, JCAP covers all aspects of cosmology and particle astrophysics, and encompasses theoretical, observational and experimental areas as well as computation and simulation.

JCAP covers all aspects of cosmology and particle astrophysics including:

- CMBR
- cosmic rays
- dark matter
- magnetic fields and plasma
- neutrinos
- particles and cosmology
- Galaxies
- large-scale structure of the universe

JCAP has an access-and-usage policy based on affordable and reasonable pricing for both authors and libraries.

## Online archive

2010–2021 available free with journal subscription  
2003–2010 available in the IOP Journal Archive

## Partner

International School for Advanced Studies (SISSA)



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# Journal of Instrumentation

[iopscience.org/jinst](http://iopscience.org/jinst)



Volume	16
Frequency	12
Online ISSN	1748-0221
CODEN	JIONAS

## Scientific director

Marzio Nessi, CERN, Geneva, Switzerland

*Journal of Instrumentation* (JINST) is a multidisciplinary, electronic-only journal, created jointly by the International School for Advanced Studies (SISSA) and IOP Publishing.

JINST specialises in papers related to concepts and instrumentation in:

- radiation-detector physics
- accelerator science
- associated experimental methods and techniques, theory, modelling and simulations

JINST provides regular Technical Reports on innovative achievements related to topics covered in the journal's scope. The emphasis is not necessarily on novelty or on scientific value, but rather on relevance to the community.

JINST is of particular interest to scientists focusing on physics instrumentation – especially experimental physics research groups.

The Advisory and Editorial Boards – composed of distinguished scientists in the field – jointly establish the journal's scientific policy and ensure the scientific quality of accepted papers.

## Online archive

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2006–2010 available in the IOP Journal Archive

## Partner

International School for Advanced Studies (SISSA)



# Journal of Micromechanics and Microengineering

[iopscience.org/jmm](http://iopscience.org/jmm)



Volume	31
Frequency	12
Online ISSN	1361-6439
Print ISSN	0960-1317
CODEN	JMMIEZ

## Editor-in-chief

Professor Weileun Fang, National Tsing Hua University, Taiwan

A leading journal in its field, *Journal of Micromechanics and Microengineering*™ (JMM) covers all aspects of microelectromechanical structures, devices and systems, as well as micromechanics and micromechatronics.

JMM focuses on original work in fabrication and integration technologies, and aims to highlight the link between new fabrication technologies and their capacity to create novel devices.

The journal's scope includes original work in microengineering and nanoengineering, spanning the physical, chemical, electrical and biological realms, as well as new fabrication and integration techniques for both silicon and non-silicon materials.

JMM is a key resource for:

- electrical, biological and mechanical engineering
- physics
- chemistry
- materials
- biochemistry and medicine

## Online archive

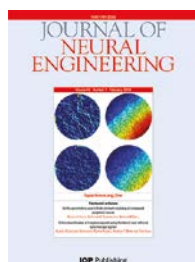
2011–2021 available free with journal subscription  
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# Journal of Neural Engineering

[iopscience.org/jne](http://iopscience.org/jne)



Volume	18
Frequency	6
Online ISSN	1741-2552
CODEN	JNEIEZ

## Editor-in-chief

Dominique M Durand, Case Western Reserve University, OH, USA

Researchers working in biomedical engineering, neuroscience, neurobiology and neurology will find this journal an essential point of reference. The scope of *Journal of Neural Engineering*™ (JNE) encompasses experimental, computational, theoretical, clinical and applied aspects of topics such as:

- brain–machine (computer) interfaces
- neuromodulation
- neural prostheses
- neuroimaging
- neuro-rehabilitation
- optical neural engineering
- neural tissue regeneration
- neural signal processing

As part of IOP Publishing's commitment to ensure that publishing in our journals is as easy as possible, JNE uploads final, accepted manuscripts for NIH-funded papers to PubMed Central automatically, unless an author requests otherwise.

## Online archive

2011–2021 available free with journal subscription  
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# Journal of Optics

[iopscience.org/jopt](http://iopscience.org/jopt)



Volume	23
Frequency	12
Online ISSN	2040-8986
Print ISSN	2040-8978
CODEN	JOOPCA

## Editor-in-chief

Andrew Forbes, University of the Witwatersrand, South Africa

*Journal of Optics*™ (JOPT) publishes work of relevance to the optics community, including experimental and theoretical research on all aspects of modern and classical optics. JOPT publishes research in 10 sections: each section is managed by world-renowned topical editors:

- nanophotonics and plasmonics
- metamaterials and structured photonic materials
- quantum photonics
- biophotonics
- light–matter interactions
- nonlinear and ultrafast optics
- propagation, diffraction and scattering
- information and communication optics
- integrated photonics
- photovoltaics and energy harvesting

Besides regular papers, JOPT publishes a select number of special issues and a variety of other article types. Letters give the community prompt access to particularly timely and significant research. Topical Reviews, commissioned by the Editorial Board, present a snapshot of recent progress in a particular field, and Roadmaps an outlook on current and future challenges and emerging technologies in high-interest areas of optics. All JOPT articles can also be read as enhanced-article HTML – perfect for researchers using tablets or smartphones.

## Online archive

2011–2021 available free with journal subscription  
2010 available in the IOP Journal Archive  
2003–2009 under the previous name of *Journal of Optics A: Pure and Applied Optics*  
1970–2009 available in the IOP Journal Archive (under previous names)





# Journal of Physics A: Mathematical and Theoretical

[iopscience.org/jphysa](http://iopscience.org/jphysa)



Volume	54
Frequency	50
Online ISSN	1751-8121
Print ISSN	1751-8113
CODEN	JPAMB5

## Editor-in-chief

J A Minahan, Uppsala University, Sweden

*Journal of Physics A: Mathematical and Theoretical*™ (JPhysA) is a key resource for those who are interested in the mathematical structures that describe fundamental processes of the physical world, and the analytical, computational and numerical methods for exploring these structures. Researchers can access a mix of regular papers, reviews, comments and special issues across seven key research areas:

- statistical physics: nonequilibrium systems, computational methods and modern equilibrium theory
- mathematical physics
- quantum mechanics and quantum information theory
- field theory and string theory
- nonlinear physics and waves
- biological modelling

JPhysA rapidly delivers high-quality, significant and original contributions in the arenas of mathematical and theoretical physics to a diverse readership. Outstanding short papers are made available quickly to the research community via the journal's Letters programme, with its dedicated Editorial Panel and special issues and topical reviews provide essential and timely overviews of high-interest topics.

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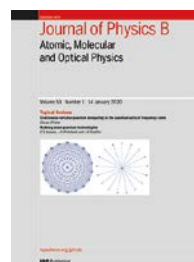
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1968–2010 available in the IOP Journal Archive

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# Journal of Physics B: Atomic, Molecular and Optical Physics

[iopscience.org/jphysb](http://iopscience.org/jphysb)



Volume	54
Frequency	24
Online ISSN	1361-6455
Print ISSN	0953-4075
CODEN	JPAPEH

## Editor-in-chief

Marc Vrakking, Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, Germany

*Journal of Physics B: Atomic, Molecular and Optical Physics*™ (JPhysB) publishes significant and high-quality research in atomic, molecular and optical physics, in the following sections:

- atomic structure, properties and dynamics
- molecular, chemical and cluster physics
- atomic and molecular collisions
- cold matter
- optical and laser physics
- quantum technologies
- ultrafast, high-field and X-ray physics
- astrophysics and plasma physics

In addition to original research papers, Topical Reviews and Special Issues, JPhysB offers readers a variety of article types:

- Letters: outstanding, concise articles, reporting important, new and timely developments
- Roadmaps: collegial articles providing an outlook on future challenges and emerging technologies in high-interest areas of AMO physics
- Tutorials: based on PhD theses or lecture series, these articles introduce newcomers to rapidly developing fields where textbooks are unavailable
- Invited Papers: commissioned by the Editorial Board, these articles mix review material with unpublished research, to give readers contextualisation for rapidly emerging topics
- Viewpoints: short commissioned editorials commenting on high-interest articles published in the journal

## Online archive

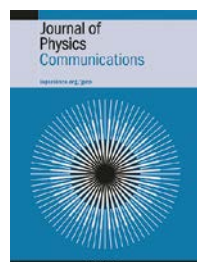
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# Journal of Physics Communications

[iopscience.org/jpc](http://iopscience.org/jpc)



Volume	5
Frequency	12
Online ISSN	2399-6528
CODEN	JPCOFP

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*Journal of Physics Communications*™ (JPCO) is an open access journal covering all branches of physics and related fields. The journal is committed to fast review and publication of high-quality science in all areas of physics, including interdisciplinary fields, and operates a transparent editorial selection and feedback process focused on scientific validity and rigour.

*Journal of Physics Communications* builds on the strength and prestige of the *Journal of Physics* series, which celebrated 50 years of publishing. The journal does not make a subjective assessment on the potential future significance of a paper, instead providing a rapid platform for communicating research that meets high standards of scientific rigour and contributes to the development of knowledge in physics.

All physics-related research is in scope, including interdisciplinary and multidisciplinary studies. All types of results can be published, provided they contribute to advancing knowledge in their field, including negative results, null results and replication studies.

## Online archive

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# Journal of Physics: Condensed Matter

[iopscience.org/jpcm](http://iopscience.org/jpcm)



Volume	33
Frequency	50
Online ISSN	1361-648X
Print ISSN	0953-8984
CODEN	JCOMEL

## Editor-in-chief

Gianfranco Pacchioni, Università degli Studi di Milano-Bicocca, Italy

*Journal of Physics: Condensed Matter*™ (JPCM), offers readers the latest research across all areas of condensed matter physics, including soft matter, nanoscience, chemical physics and biophysics.

Reporting experimental, theoretical and simulation studies, readers can also access JPCM's authoritative Topical Review programme, Letters and Special Issues in the areas of:

- surfaces and interfaces
- soft matter, biophysics and liquids
- physics of chemical processes
- nanostructures and nanoelectronics
- structure, dynamics and phase transitions
- electronic structure
- correlated electrons systems
- physics of materials
- magnetism
- computational and experimental methods

## Online archive

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## Journal of Physics D: Applied Physics

[iopscience.org/jphysd](http://iopscience.org/jphysd)



Volume	54
Frequency	50
Online ISSN	1361-6463
Print ISSN	0022-3727
CODEN	JPAPBE

### Editor-in-chief

Huiyun Liu, University College London, UK

Receiving more than one million downloads every year, *Journal of Physics D: Applied Physics*™ (JPhysD) reports cutting-edge multidisciplinary research across all areas of applied physics and the transition of those findings into new and innovative technologies. Researchers can access a mix of regular Papers, Topical Reviews, Letters and Special Issues across six key research areas:

- applied magnetism
- semiconductors and photonics
- low-temperature plasmas
- condensed matter
- applied biophysics
- energy

The journal offers even more high-quality research, reviews and Special Issues and our highly popular Roadmaps that provide broad overviews of fields and emerging topics. JPhysD is recommended as a key resource for researchers working in physics, chemistry, materials, engineering and biophysics.

### Online archive

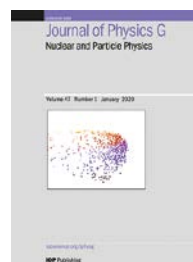
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## Journal of Physics G: Nuclear and Particle Physics

[iopscience.org/jphysg](http://iopscience.org/jphysg)



Volume	48
Frequency	12
Online ISSN	1361-6471
Print ISSN	0954-3899
CODEN	JPGPED

### Editor-in-chief

Jacek Dobaczewski, University of York, UK, and University of Warsaw, Poland

*Journal of Physics G: Nuclear and Particle Physics*™ (JPhysG) publishes theoretical and experimental articles covering nuclear physics, particle physics and nuclear/particle astrophysics, as well as the many areas where these subjects overlap. The journal publishes original, high-quality research articles on:

- theoretical and experimental topics in the physics of elementary particles and fields
- intermediate-energy physics and nuclear physics
- experimental and theoretical research in particle, neutrino and nuclear astrophysics
- research arising from all interface areas among these fields

In order to react to new developments and to highlight key accomplishments, new results and directions, JPhysG also presents research in a variety of flexible formats including:

- Topical Reviews that present specially commissioned review articles on areas of current interest
- Letters that enable prompt publication of high-profile research
- Focus Issues addressing a specific topic of interest that highlight the state of the art and promote new developments in the field, acting as a hub for the community

### Online archive

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# Journal of Radiological Protection

[iopscience.org/jrp](http://iopscience.org/jrp)



Volume	41
Frequency	4
Online ISSN	1361-6498
Print ISSN	0952-4746
CODEN	JRPREA

## Editor-in-chief

R Wakeford, The University of Manchester, UK

As the official journal of The Society for Radiological Protection, *Journal of Radiological Protection* (JRP) is an essential and comprehensive title for all those involved with radiological protection in the medical, nuclear power and environmental industries.

The journal publishes primary research articles – as well as Topical Reviews, Practical Matter articles, Opinions, Memoranda and Letters to the Editor – across a wide range of topics, including:

- dosimetry
- instrument development
- specialised measuring techniques
- epidemiology
- biological effects (*in vivo* and *in vitro*)
- risk and environmental-impact assessments

JRP is recommended reading for anyone involved with radiological protection, whether researching in academia, working in hospitals or in nuclear power, or monitoring environmental levels of radioactive materials.

## Online archive

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## Partner

The Society for Radiological Protection



# Journal of Semiconductors

[iopscience.org/jos](http://iopscience.org/jos)



Volume	42
Frequency	12
Online ISSN	2058-6140
Print ISSN	1674-4926
CODEN	JSOEB4

## Editor-in-chief

SS Li, Institute of Semiconductors, Chinese Academy of Sciences, Beijing, China

*Journal of Semiconductors* (JOS) publishes articles that emphasise semiconductor physics, materials, devices, circuits, and related technology. It reports on the following topics:

- semiconductor superlattice and microstructure physics
- semiconductor material physics
- growth and characterisation of novel semiconductor materials including quantum dots and quantum wires
- semiconductor device physics
- novel semiconductor devices
- CAD design and fabrication of integrated circuits
- novel technology for semiconductor devices
- semiconductor optoelectronic devices and integration
- semiconductor film growth, characterisation and application

As an interdisciplinary title based on both physics and information science, JOS is a key resource for anyone with an interest in physics, electronics and engineering.

## Online archive

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## Partners

- Chinese Institute of Electronics
- Institute of Semiconductors, Chinese Academy of Sciences

# Journal of Statistical Mechanics: Theory and Experiment

[iopscience.org/jstat](http://iopscience.org/jstat)



Volume	18
Frequency	12
Online ISSN	1742-5468
CODEN	JSMTC6

## Chief director

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*Journal of Statistical Mechanics: Theory and Experiment (JSTAT)* is published in partnership with the International School for Advanced Studies (SISSA).

The journal's scope covers topics that correspond to the following keyword sections:

- quantum statistical physics, condensed matter, integrable systems
- classical statistical mechanics, equilibrium and non-equilibrium
- disordered systems, classical and quantum
- interdisciplinary statistical mechanics
- biological modelling and information

## Online archive

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## Partner

International School for Advanced Studies (SISSA)



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# Journal of The Electrochemical Society

[iopscience.org/jes](http://iopscience.org/jes)



Volume	168
Frequency	12
Online ISSN	1945-7111
CODEN	JESOAN

## Editor-in-chief

Robert Savinell, Case Western Reserve University, USA

The *Journal of The Electrochemical Society (JES)* was launched in 1902 as the society's flagship journal, and is published by IOP Publishing on behalf of The Electrochemical Society. The journal publishes outstanding research covering fundamental and applied areas of electrochemistry, including experimental and theoretical aspects of electrodes, interfaces, and devices.

JES has eight topical interest areas:

- batteries and energy storage
- corrosion science and technology
- electrochemical/electroless deposition
- electrochemical engineering
- fuel cells, electrolyzers, and energy conversion
- organic and bioelectrochemistry
- physical and analytical electrochemistry, electrocatalysis, and photoelectrochemistry
- sensors

## Online archive

While a subscription is current, a subscribing institution will have access to all of the available backfiles (for JES, from 1930) as well as content from the current subscription year

## Partner

The Electrochemical Society



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## JPhys Complexity

[iopscience.org/jphyscomplexity](http://iopscience.org/jphyscomplexity)



Volume	2
Frequency	4
Online ISSN	2632-072X
CODEN	JPCOGQ

### Editor-in-chief

Ginestra Bianconi, Queen Mary University of London, UK

*JPhys Complexity*<sup>™</sup> (JPCOMPLEX) showcases the most significant and exciting scientific developments in physics-related theoretical, experimental, and applied research that contributes to advancing our scientific understanding of complex systems and networks. As an interdisciplinary journal, *JPhys Complexity* welcomes submissions from all disciplines, including physics, biology, chemistry, environmental science, social sciences, economics, and related fields, and aims to facilitate the flow of knowledge between and beyond these communities, ensuring authors gain maximum impact and visibility for their work.

All research related to complex systems and networks is in scope, including interdisciplinary and multidisciplinary studies. Coverage includes, but is not limited to, the following:

- artificial intelligence and machine learning
- biological and physical systems
- city and regional planning
- climate change and sustainability
- cognitive, language, and informational networks
- computational assembly science and engineering
- economic and financial systems
- human behaviour, social-evolutionary dynamics
- online social networks and the internet
- quantum networks

### Online archive

2020 – 2021 freely available to all at [iopscience.org/jpcomplex](http://iopscience.org/jpcomplex)

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## JPhys Energy

[iopscience.org/jphysenergy](http://iopscience.org/jphysenergy)



Volume	4
Frequency	4
Online ISSN	2515-7655
CODEN	JPEOEY

### Editor-in-chief

John Irvine, University of St Andrews, UK

*JPhys Energy*<sup>™</sup> (JPENERGY) is an innovative open access journal for high-quality research in all areas where physical sciences are applied in the field of energy. The journal showcases the most significant and exciting developments in energy research, with a particular focus on interdisciplinary and multidisciplinary studies.

All energy-related research is in scope; subjects covered will include, but not be restricted to:

- batteries and supercapacitors
- biodiesels and biofuels
- biomass and biorefineries
- carbon capture and storage
- climate change
- electrocatalysis and photocatalysis
- energy grids and networks
- energy harvesting devices
- fuel cells
- hydrogen generation and storage
- life-cycle assessment
- materials for energy applications
- nuclear power
- solar-energy conversion and photovoltaics
- sources and technologies: renewables and fossil fuels
- water splitting and artificial photosynthesis

### Online archive

2019–2021 available free at [iopscience.org/jphysenergy](http://iopscience.org/jphysenergy)

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# JPhys Materials

[iopscience.org/jphysmaterials](http://iopscience.org/jphysmaterials)



Volume	4
Frequency	4
Online ISSN	2515-7639
CODEN	JPMOC4

## Editor-in-chief

Stephan Roche, Catalan Institution for Research and Advanced Studies (ICREA) and Catalan Institute of Nanosciences and Nanotechnology (ICN2), Barcelona, Spain

*JPhys Materials*<sup>™</sup> (JPMATER) is a new open access journal that covers all branches of physical sciences contributing to the advancement of materials science. The journal showcases the most significant and exciting developments in materials research, with a particular focus on interdisciplinary and multidisciplinary studies.

All materials-related research is in scope; subjects covered will include, but not be restricted to:

- biological and biomedical materials
- carbon materials
- electronic materials
- energy and environment materials
- glasses and amorphous materials
- magnetic materials
- metals and alloys
- metamaterials
- nano
- organic materials
- photonic materials
- polymers and organic compounds
- semiconductors
- smart materials
- soft matter
- superconductors
- surfaces, interfaces and thin films

## Online archive

2018–2021 available free at [iopscience.org/jphysmaterials](http://iopscience.org/jphysmaterials)

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# JPhys Photonics

[iopscience.org/jphysphotonics](http://iopscience.org/jphysphotonics)



Volume	3
Frequency	4
Online ISSN	2515-7647
CODEN	JPPOKR

## Editor-in-chief

Hugo Thienpont, Vrije Universiteit Brussel, Belgium

*JPhys Photonics*<sup>™</sup> (JPPHOTON) is an open access journal for high-quality research in all areas where physical sciences are applied in the field of photonics. The journal showcases the most significant and exciting developments in photonics research, with a particular focus on interdisciplinary and multidisciplinary studies.

All photonics-related research is in scope; subjects covered will include, but not be restricted to:

- biophotonics and biomedical optics
- energy and green tech applications, including photovoltaics
- imaging, detection and sensing
- light-matter interactions
- light sources, including lasers and LEDs
- nanophotonics
- nonlinear and ultrafast optics
- optical communications and fibre optics
- optical data storage
- optoelectronics, integrated optics and semiconductor photonics
- photonic materials, metamaterials and engineered structures
- plasmonics
- propagation, interaction and behaviour
- quantum photonics and optics

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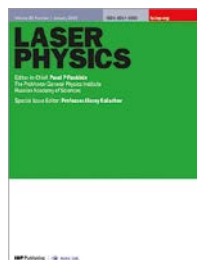
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# Laser Physics

iopscience.org/lp



Volume	31
Frequency	12
Online ISSN	1555-6611
Print ISSN	1054-660X
CODEN	LAPHEJ

## Editor-in-chief

P P Pashinin, Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia

Founded in 1990, on the initiative of Nobel laureate, Alexander M Prokhorov, *Laser Physics* (LP) is an international journal offering a comprehensive view of the fields of theoretical and experimental laser research and applications. The journal's scope includes:

- physics of lasers, and novel laser materials
- fibre optics and fibre lasers
- quantum optics and quantum information science
- optics: nanomaterials; nonlinear; ultrafast, and strong field physics
- physics of cold trapped atoms
- laser methods in chemistry, biology, medicine and ecology
- laser spectroscopy
- interaction of laser radiation with matter
- laser interaction with solids
- photonics

In addition to original research papers, LP publishes Topical Reviews, Tutorials and Special Issues.

## Online archive

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Details on the LP archive (1991–2012) are available at  
[www.lasphys.com/lasphys](http://www.lasphys.com/lasphys)

## Partner

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# Laser Physics Letters

iopscience.org/lpl



Volume	18
Frequency	12
Online ISSN	1612-202X
Print ISSN	1612-2011
CODEN	LPLABC

## Editor-in-chief

P P Pashinin, Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia

*Laser Physics Letters* (LPL) is a monthly international journal that publishes novel and noteworthy results in the broad areas of fundamental and applied laser physics and their associated fields.

Founded in 2003, the journal provides rapid dissemination of research including spectroscopy, quantum electronics, quantum optics, quantum electrodynamics, nonlinear optics, atom optics, quantum computation, quantum information processing and storage, fibre optics and their applications in chemistry, biology, engineering and medicine.

In addition to Letters that report original research results, LPL publishes invited Topical Reviews that describe recent progress in a field of high current interest.

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# Machine Learning: Science and Technology

[iopscience.org/mlst](https://iopscience.org/mlst)



Volume	2
Frequency	4
Online ISSN	2632-2153
CODEN	MLSTCK

## Editor-in-chief

Anatole von Lilienfeld, University of Vienna, Austria

*Machine Learning: Science and Technology*™ (MLST) is a multidisciplinary journal devoted to publishing on advances relating to the application and development of machine learning across a broad range of disciplines

Particular areas of scientific application include (but are not limited to):

- physics and space science
- design and discovery of novel materials and molecules
- materials characterisation techniques
- simulation of materials, chemical processes and biological systems
- atomistic and coarse-grained simulation
- quantum computing
- biology, medicine and biomedical imaging
- geoscience (including natural disaster prediction) and climatology
- simulation methods and high-performance computing

New conceptual advances in machine learning methods (such as explainability, causality and robustness) include, but are not limited to:

- new learning algorithms
- deep learning architectures
- kernel methods
- probabilistic and Bayesian methods
- generative methods
- reinforcement and active learning
- recurrent and time-structure based methods
- neuro-inspired methods (including neuromorphic computing)

## Online archive

2020–2021 freely available to all at [iopscience.org/mlst](https://iopscience.org/mlst)

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# Materials for Quantum Technology

[iopscience.org/mqt](https://iopscience.org/mqt)



Volume	1
Frequency	4
Online ISSN	2633-4356
CODEN	MQTAAZ

## Editor-in-chief

Jason Smith, University of Oxford, UK

*Materials for Quantum Technology*™ (MQT) is an open access multidisciplinary journal devoted to publishing cutting-edge experimental and theoretical research on the development and application of materials for all quantum-enabled technologies and devices. Particular areas of include new areas of multifunctional materials, including:

- fabrication and characterisation of materials and interfaces for quantum technology applications
- materials for hybrid quantum systems
- materials for quantum sensing and metrology
- materials for quantum optics and photonics
- materials for qubit systems
- novel materials and devices for quantum computing and quantum electronics
- chemistry for quantum technology
- theory and computational design of new materials for quantum technology applications
- emergent properties of quantum materials and their applications

MQT is a highly selective journal, only publishing articles that contain novel results or applications that substantially advance their relevant field with the expectation of long-term scientific or technological impact. Alongside high-impact original research papers, MQT also publishes authoritative review articles and perspectives from leading authors.

## Online archive

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# Materials Research Express

[iopscience.org/mrx](http://iopscience.org/mrx)



Volume	8
Frequency	12
Online ISSN	2053-1591
CODEN	MREAC3

## Editor-in-chief

M Meyyappan, NASA Ames Research Center, CA, USA

*Materials Research Express*™ (MRX) is a rapid-publication journal for new experimental and theoretical research on the design, fabrication, properties and applications of all classes of functional materials.

Since 2020, MRX has been a fully gold open access journal providing maximum dissemination of research extending across all areas of materials science. Particular materials of interest include:

- biomaterials
- nanomaterials and nanotechnologies
- carbon allotropes and 2D materials
- electronic materials
- glasses, ceramics and amorphous materials
- magnetic materials
- metals and alloys
- photonic materials and metamaterials
- polymers and organic compounds
- smart materials
- thin films

## Online archive

2020 freely available to all from 2020 (Volume 7)

2014–2019 available in the IOP Journal Archive

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# Measurement Science and Technology

[iopscience.org/mst](http://iopscience.org/mst)



Volume	32
Frequency	12
Online ISSN	1361-6501
Print ISSN	0957-0233
CODEN	MSTCEP

## Editor-in-chief

Kenneth Christensen, University of Notre Dame, IN, USA

The journal is of interest to experimental researchers in all science and engineering disciplines as well as those specialising in measurement science.

*Measurement Science and Technology*™ (MST) covers all aspects of the theory, practice and application of measurement and sensor technology across the sciences:

- precision measurements and metrology
- sensors and sensor systems
- optical and laser-based techniques
- fluids
- imaging
- spectroscopy
- materials and materials processing
- biological, medical and life-science
- environmental and atmospheric
- novel instrumentation systems and components

MST's strong publishing programme includes Topical Reviews and Special Issues.

## Online archive

2011–2021 available free with journal subscription

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# Methods and Applications in Fluorescence

[iopscience.org/maf](http://iopscience.org/maf)



Volume	9
Frequency	4
Online ISSN	2050-6120
CODEN	MAFEB2

## Editors-in-chief

- David J S Birch, University of Strathclyde, UK
- Marcia Levitus, Arizona State University, USA
- Yves Mély, Université de Strasbourg, France

*Methods and Applications in Fluorescence*™ (MAF) is a multidisciplinary journal that appeals to chemists, biologists and physicists working with fluorescence or developing new optical techniques in the life sciences. As well as review articles, the journal publishes original research articles and technical notes. The scope includes:

- new fluorescent probes and sensors for use in biology
- development and use of fluorescent nanoparticles
- instrumentation and devices for fluorescent imaging
- FRET, FLIM, FCS
- image analysis
- quantitative methods
- super-resolution imaging techniques
- lanthanide fluorescence
- fluorescent polymers

The applications of fluorescence to emerging areas in bionanotechnology, nanotechnology and medicine are very much part of the vision for the journal.

## Online archive

2013–2021 available free with journal subscription

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# Metrologia

[iopscience.org/met](http://iopscience.org/met)



Volume	58
Frequency	6
Online ISSN	1681-7575
Print ISSN	0026-1394
CODEN	MTRGAU

## Editor

J Miles, Bureau International des Poids et Mesures, Sèvres, France

*Metrologia* (MET) is the leading journal in pure and applied metrology, and is essential reading for all researchers to whom measurement standards and calibrations are important.

MET publishes original research on the fundamentals of measurement, including improvements to the seven base units of the International System of Units (SI). In addition to articles that describe improvements to the accurate realization of base and derived units, MET readers can also find articles on measurements of physical constants that have a fundamental importance in metrology – such as the Rydberg constant or the fine-structure constant – or that contribute to the solution of particularly difficult measurement problems.

In addition to original papers, MET publishes review articles, issues devoted to single topics of timely interest and occasional conference proceedings, as well as features that draw attention to the development of new trends of thought and experiment in this area of physical research, such as Letters to the Editor and Short Communications.

The MET Technical Supplement is an electronic-only publication that provides abstracts of international comparisons used to support the claimed calibration and measurement capabilities of participating laboratories. The abstracts are linked to full reports in PDF format. The PDFs are part of the Key Comparison Database (KCDB) maintained on the BIPM website, [kcdb.bipm.org](http://kcdb.bipm.org).

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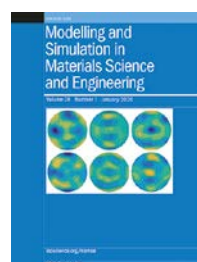
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# Modelling and Simulation in Materials Science and Engineering

[iopscience.org/msmse](http://iopscience.org/msmse)



Volume	29
Frequency	8
Online ISSN	1361-651X
Print ISSN	0965-0393
CODEN	MSMSEEU

## Editors-in-chief

- E van der Giessen, University of Groningen, the Netherlands
- P A Schultz, Sandia National Laboratories, Albuquerque, NM, USA

Serving the multidisciplinary materials community, *Modelling and Simulation in Materials Science and Engineering™* (MSMSE) publishes new research that advances the understanding and prediction of material behaviour – at scales from atomistic to macroscopic – through modelling and simulation.

The journal is led by Editors-in-chief Professor van der Giessen and Dr Schultz, with support from an Editorial Board of well respected field professionals who were appointed for their expert guidance and knowledge across the journal's scope, which covers:

- modelling and/or simulation across materials science that emphasises fundamental materials issues
- interdisciplinary research that tackles challenging and complex materials problems where the governing phenomena may span different scales of materials behaviour, with an emphasis on the development of quantitative approaches to explain and predict experimental observations
- material processing that advances the fundamental materials science and engineering underpinning the connection between processing and properties
- all classes of materials and mechanical, microstructural, electronic, chemical, biological and optical properties

The journal has a programme of Focus Issues, with recent topics covered including multiscale materials modelling and uncertainty quantification.

## Online archive

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1.874

# Multifunctional Materials

[iopscience.org/mfm](http://iopscience.org/mfm)



Volume	4
Frequency	4
Online ISSN	2399-7532
CODEN	MMUABD

## Editors-in-chief

- Andreas Lendlein, HZG Centre for Materials and Coastal Research, Teltow, Germany
- Richard Trask, University of Bristol, UK

*Multifunctional Materials™* (MFM) is a multidisciplinary journal devoted to publishing research of the highest quality and impact, and is uniquely designed to serve an emerging field that now connects the materials science, physics, chemistry, bioscience and engineering communities and translational multifunctional sciences. Specific areas of interest include new areas of multifunctional materials, including:

- the design and manufacture of programmed materials for multifunctionality, morphing and adaptivity
- “meta-materials” designed and created through current chemistry or synthetic biology
- multifunctional materials designed with the capabilities of intelligent systems, such as sensing and self-diagnosis
- characterisation methods for functions and multiscale modelling
- applications of functional multi-materials
- computational materials engineering

A key aim for the journal is to bridge the materials and systems communities that are now involved with multifunctional design. In addition to publishing outstanding articles that report urgent new results that make a significant advance to the field, MFM will also publish invited-only Topical Reviews on themes of particular current interest to the community.

## Online archive

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# Nano Express

[iopscience.org/nanox](http://iopscience.org/nanox)



Volume	2
Frequency	4
Online ISSN	2632-959X
CODEN	NEAXA4

## Editor-in-chief

Antonio Di Bartolomeo, University of Salerno, Italy

*Nano Express*™ is a multidisciplinary, open access journal devoted to the rapid publication of new experimental, theoretical and applied research extending across all areas of nanoscale science and technology, including interdisciplinary topics. Characterised by article length flexibility and a fast-track peer-review process, areas of interest include (but are not limited to):

- synthesis and functionalisation of nanostructured materials
- study of the self- and directed-assembly of chemical species into nanoscale objects
- characterisation of the physical and chemical properties of nanoscale systems, thin films and 2D materials
- theoretical and computational nanoscience
- nanomedicine, biotechnology and pharmaceutical applications
- energy at the nanoscale and the use of nanostructures to develop alternative energy solutions
- quantum phenomena and technology
- nanofabrication and patterning of materials
- sensing and detectors

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# Nano Futures

[iopscience.org/nanof](http://iopscience.org/nanof)



Volume	5
Frequency	4
Online ISSN	2399-1984
CODEN	NFAUB3

## Editor-in-chief

M Reed, Yale University, CT, USA

*Nano Futures*™ publishes the latest and most important results and perspective from across nanoscience and related technologies including physics, chemistry, biomedicine and materials science. The journal's primary aim is to become the home for high-urgency work that will define the future direction of nanotechnology. Only a small proportion of submissions to *Nano Futures* will meet the high standards of the journal and the number of published articles will therefore be limited. *Nano Futures* is now indexed in Web of Science and Scopus and received its first Impact Factor in 2020.

Specific topics of interest include (but are not limited to):

- nanoelectronics
- nanophotonics
- nanomagnetism and spintronics
- energy at the nanoscale
- nanosensors
- nanometrology
- nanobiotechnology
- nanomedicine

With a mission to reflect a diverse and multidisciplinary fields, *Nano Futures* also publishes forward-looking Perspectives and specially commissioned "Roadmap" articles on themes of particular current interest to the broader nanoscience community.

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# Nanotechnology

[iopscience.org/nano](http://iopscience.org/nano)



Volume	32
Frequency	50
Online ISSN	1361-6528
Print ISSN	0957-4484
CODEN	NNOTER

## Editor-in-chief

Ray LaPierre, McMaster University, Canada

*Nanotechnology*<sup>™</sup> (NANO) was launched in 1990 as the first journal dedicated to provide comprehensive coverage across nanoscale research and technology. Since then, the journal has grown in both quality and quantity to establish itself as one of the leading titles in the field. It continues to offer cutting-edge research articles at the forefront of developments in all fields of nanotechnology research.

The journal continues to provide commentary on advances in nanoscale research in:

- energy at the nanoscale
- biology and medicine
- electronics and photonics
- patterning and nanofabrication
- sensing and actuating
- materials synthesis
- materials properties
- quantum technology

In addition to original research articles and Topical Reviews, NANO publishes Focus Collections, Letters and Perspectives on a regular basis, which feature Invited Articles from highly active subject areas.

NANO is recommended to all researchers working in applied physics, chemical physics, condensed matter and materials science, and measurement science and sensors.

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# Neuromorphic Computing and Engineering

[iopscience.org/nce](http://iopscience.org/nce)



Volume	1
Frequency	4
Online ISSN	2634-4386
CODEN	NCEECN

## Editor-in-chief

Giacomo Indiveri, University of Zurich, Switzerland

*Neuromorphic Computing and Engineering*<sup>™</sup> (NCE) is a multidisciplinary open access journal devoted to the design, development and application of artificial neural networks and systems in advancing scientific discovery and realising emerging new technologies.

Bringing together both the hardware and computational aspects of neuromorphic systems, the journal's audience extends to engineering, materials science, physics, chemistry, biology, neuroscience and computer science across academia and industry. Broad areas of coverage include:

- Development of functional materials for neuromorphic systems and devices;
- Biologically-inspired neuromorphic systems and devices;
- Development of novel devices and hardware to enable neuromorphic computing;
- Computation, modelling and learning principles for neuromorphic systems;
- Neuromorphic systems and theories for brain-inspired computation.

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# New Journal of Physics

[www.njp.org](http://www.njp.org)



Volume	23
Frequency	12
Online ISSN	1367-2630
CODEN	NJOPFM

## Editor-in-chief

Barry C Sanders, University of Calgary, Canada, and University of Science and Technology of China, China

Co-owned by the Institute of Physics and Deutsche Physikalische Gesellschaft, *New Journal of Physics* (NJP) was the first open access journal to publish original research across all areas of physics and continues to be a leader in publishing articles of outstanding scientific quality that merit the attention and interest of the global physics community. NJP's broad coverage of physics encompasses pure and applied research, as well as interdisciplinary topics, including:

- quantum physics (including quantum information)
- atomic and molecular physics
- optics, photonics and device physics
- condensed matter
- nanoscale science
- soft matter and polymers
- chemical physics
- statistical mechanics, thermodynamics and nonlinear systems
- fluid dynamics
- plasmas
- nuclear and particle physics
- cosmology and astrophysics
- biological and medical physics
- earth science and geophysics

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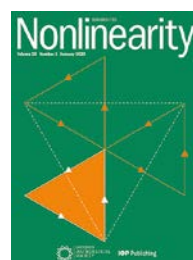
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# Nonlinearity

[iopscience.org/non](http://iopscience.org/non)



Volume	34
Frequency	12
Online ISSN	1361-6544
Print ISSN	0951-7715
CODEN	NONLE5

## Editors-in-chief

- Tasso Kaper, Boston University, USA
- Konstantin Khanin, University of Toronto, Ontario, Canada

Published jointly by the London Mathematical Society and IOP Publishing, *Nonlinearity* (NON) presents original work that spans the interdisciplinary nature of nonlinear science. The broad scope of the journal ranges from physics, mathematics and engineering through to biological science.

NON's Editorial Board is comprised of members with expertise across a diverse range of subject areas, reflecting the varied interests of the title's wide readership and ensuring that NON continues to be an essential resource for researchers in any field where nonlinearity is of fundamental importance. Subjects covered in the journal include:

- nonlinear, chaotic and dynamical systems and their applications
- mathematical biology
- nonlinear partial differential equations
- fluid dynamics, including fluid boundaries, vortex dynamics, turbulence and rogue waves
- network dynamics and swarming
- quantum dynamics and quantum chaos

All authors are strongly encouraged to provide sufficient introductory material to make their work accessible to NON's wide readership.

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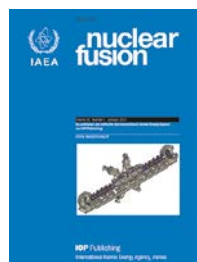
London Mathematical Society



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# Nuclear Fusion

iopscience.org/nf



Volume	61
Frequency	12
Online ISSN	1741-4326
Print ISSN	0029-5515
CODEN	NUFUAU

## Editor-in-chief

A Fasoli, Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland

## Associate editor for Inertial Confinement

S Jacquemot, École Polytechnique, France

## Chairman of the Board of Editors

R Hawryluk, Princeton Plasma Physics Laboratory, NJ, USA

Founded by the International Atomic Energy Agency (IAEA) in 1960, *Nuclear Fusion* (NF) is the acknowledged world-leading journal specialising in fusion. The journal covers all aspects of theoretical and practical research that are relevant to controlled thermonuclear fusion.

Since 2002, a co-publishing arrangement has been in place that combines the IAEA's peer review and author services with the publishing expertise of IOP Publishing. Today, the journal continues its tradition as a leading voice of the worldwide fusion community while offering the most up-to-date electronic services (including key papers from the history of fusion research) covering subjects in:

- the production, heating and confinement of high-temperature plasmas
- the physical properties of such plasmas
- the experimental or theoretical methods of exploring or explaining them
- fusion-reactor physics
- reactor concepts
- fusion technologies

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# Physical Biology

iopscience.org/pb



Volume	18
Frequency	6
Online ISSN	1478-3975
CODEN	PBHIAT

## Editor-in-chief

Greg Huber, Chan Zuckerberg Biohub, San Francisco, CA, USA

*Physical Biology*™ (PB) bridges research in the biological and physical sciences, and showcases a range of interdisciplinary papers, reviews and perspectives with an innovative edge.

PB covers an extensive range of subjects, including:

- intracellular processes
- systems biology
- developmental processes
- physical aspects of disease
- neuronal dynamics
- population dynamics, ecology and evolution
- biomolecular structure and interactions
- cells and their microenvironment
- cell-material interactions
- novel physical techniques to probe biological systems
- advances in bioinformatic and modelling-based approaches
- synthetic biology

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# Physica Scripta

[www.physica.org](http://www.physica.org)



Volume	96
Frequency	12
Online ISSN	1402-4896
Print ISSN	0031-8949
CODEN	PHSCAS

*Physica Scripta* (PhysScr) is an international journal dedicated to presenting novel research findings and analysis across the breadth of theoretical and experimental physics. The journal is endorsed by The Royal Swedish Academy of Sciences, the prestigious organisation responsible for awarding the annual Nobel prizes.

PhysScr is committed to a broad-scope mission, publishing work from established fields of physics as well as emerging and interdisciplinary areas.

Published monthly (12 issues per year), PhysScr aims to support researchers at all stages by making work more accessible, and includes Invited Comments and reviews intended to bridge gaps in readers' knowledge and increase connection between related themes.

The journal's distinguished international Editorial Board supports a regular programme of Focus Issues as part of the regular journal featuring articles and comments that address cutting-edge topics.

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# Physics Education

[iopscience.org/physed](http://iopscience.org/physed)



Volume	56
Frequency	6
Online ISSN	1361-6552
Print ISSN	0031-9120
CODEN	PHEDA7

## Editor-in-chief

Gary Williams, Institute of Physics, London, UK

*Physics Education* (PED) is an international journal that supports the physics teaching community. It provides a forum for educators to share experiences and information that promotes continual development in the teaching of physics to 11–18 year olds.

It offers professional development and support to physics teachers around the world by providing:

- a forum for practising teachers to make an active contribution to the physics-teaching community
- knowledge updates in physics, educational research and relevant curriculum developments
- strategies for teaching and classroom management that will engage and motivate students

In addition to feature papers, PED publishes shorter frontline papers, resource reviews, letters and multimedia supplementary material. It also supports video abstracts, where authors go beyond the constraints of the written article to convey their research.

PED readers benefit from the perspective and expertise of the journal's Editorial Board. It is a valuable resource for anyone involved in physics education at the high-school or undergraduate level – teachers, lecturers and teacher trainers in university physics, engineering and education departments – as well as for those producing resources for schools, colleges and universities, companies with an education programme, government-funded bodies and government-funding departments.

## Online archive

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# Physics in Medicine & Biology

[iopscience.org/pmb](http://iopscience.org/pmb)



Volume	66
Frequency	24
Online ISSN	1361-6560
CODEN	PHMBA7

## Editor-in-chief

S R Cherry, University of California, Davis, USA

*Physics in Medicine & Biology* (PMB) is published in partnership with the Institute of Physics and Engineering in Medicine (IPEM) and covers:

- therapy physics (ionising and non-ionising radiation)
- biomedical imaging (X-ray, magnetic resonance, ultrasound, optical and nuclear imaging)
- image-guided interventions
- image reconstruction and analysis
- artificial intelligence in biomedical physics and analysis
- nanoparticles in imaging and therapy radiobiology
- radiation protection and patient dose monitoring
- radiation dosimetry

This journal is essential reading for medical physicists, clinicians and industry specialists involved in the manufacturing and testing of radiotherapy equipment, with the purpose of improving the understanding, detection and treatment of disease, and the management of patients.

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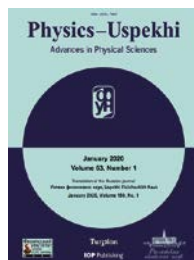
Institute of Physics and Engineering in Medicine



# Physics—Uspekhi

(Advances in Physical Sciences)

[iopscience.org/phu](http://iopscience.org/phu)



Volume	64
Frequency	12
Online ISSN	1468-4780
Print ISSN	1063-7869
CODEN	PHUSEY

## Editor-in-chief

V A Rubakov, Institute for Nuclear Research, Russian Academy of Sciences, Moscow, Russia

## Associate editors

- L P Pitaevskii, P L Kapitza Institute for Physical Problems, Russian Academy of Sciences, Moscow, Russia
- O V Rudenko, M V Lomonosov Moscow State University, Russia

*Physics—Uspekhi* (*Advances in Physical Sciences*) (PU) is the English translation of *Uspekhi Fizicheskikh Nauk* – the flagship journal of the Russian Academy of Sciences, first published in 1918.

The journal's broad scope covers physics and associated fields, with special focus on astrophysics, high-energy physics, solid-state physics, nonlinear phenomena and modern interdisciplinary areas. Principal headings include: reviews of topical problems, physics of our day, instruments and methods of investigation, methodological notes, from the history of physics, conferences and symposia, and book reviews.

## Online archive

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1958–2009 available in Turpion's Historic Archive: Turpion offers the option to acquire perpetual rights of Turpion journals content for a one-time purchase. Since 2008, electronic access to the content back to the first English translation volume has been hosted by IOP Publishing at [iopscience.org/phu](http://iopscience.org/phu)

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# Physiological Measurement

[iopscience.org/pmea](http://iopscience.org/pmea)



Volume	42
Frequency	12
Online ISSN	1361-6579
CODEN	PMEAE3

## Editor-in-chief

Xiao Hu, Duke University, USA

*Physiological Measurement* (PMEA) publishes papers about the quantitative assessment and visualisation of physiological function in clinical research and practice, with an emphasis on the development of new methods of measurement and other validation. Papers are published on topics including:

- applied physiology in illness and health
- electrical bioimpedance, optical and acoustic measurement techniques
- advanced methods of time series and other data analysis
- biomedical and clinical engineering
- in-patient and ambulatory monitoring
- point-of-care technologies
- novel clinical measurements of cardiovascular, neurological and musculoskeletal systems
- novel clinical measurement of flows and pressures in lung, heart and blood vessels
- measurements in molecular and cellular and organ physiology and electrophysiology
- physiological modelling and simulation
- novel biomedical sensors, instruments, devices and systems
- measurement standards and guidelines

The journal encourages publication of data and code as well as results.

## Online archive

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## Partner

Institute of Physics and Engineering in Medicine



# The Planetary Science Journal

[iopscience.org/psj](http://iopscience.org/psj)



Volume	2
Frequency	6
Online ISSN	2632-3338
CODEN	PSJLAV

## Editor-in-chief

Faith Vilas, Planetary Science Institute, AZ, USA

*The Planetary Science Journal* is devoted to recent developments, discoveries, and theories in planetary science. We welcome all aspects of investigation of the solar system and other planetary systems. *The Planetary Science Journal* publishes manuscripts that constitute significant new research that is directly relevant to planetary science, including observational results, theoretical insights, modeling, laboratory studies, instrumentation, or geological field studies.

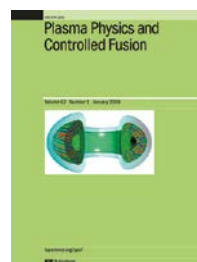
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# Plasma Physics and Controlled Fusion

[iopscience.org/ppcf](http://iopscience.org/ppcf)



Volume	63
Frequency	12
Online ISSN	1361-6587
Print ISSN	0741-3335
CODEN	PPCFET

## Editor-in-chief

R O Dendy, United Kingdom Atomic Energy Authority, Culham Science Centre, Abingdon, UK, and Centre for Fusion, Space and Astrophysics, University of Warwick, Coventry, UK

## Deputy editor

M Koepke, West Virginia University, WV, USA

*Plasma Physics and Controlled Fusion*™ (PPCF) is a leading voice in plasma physics. It covers the latest experimental and theoretical research into the physics of hot, highly ionised plasmas and controlled nuclear fusion.

The scope of PPCF includes:

- experimental and theoretical research into all aspects of hot, highly ionised plasmas
- nuclear fusion (both magnetic confinement fusion and inertial confinement fusion)
- basic phenomena in highly ionised gases in the laboratory, in the ionosphere and in space
- diagnostic methods relevant to fusion and high-temperature plasmas

PPCF's direction is overseen by an Editorial Board comprised of leading researchers from major international laboratories. These experts ensure that the latest and most relevant work is published, making PPCF the destination journal for researchers in the fields of nuclear fusion and high-temperature plasma physics.

## Online archive

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# Plasma Research Express

[iopscience.org/prex](http://iopscience.org/prex)



Volume	3
Frequency	4
Online ISSN	2516-1067
CODEN	PRELCZ

## Editor-in-chief

Hae June Lee, Pusan National University, Republic of Korea

*Plasma Research Express*™ (PREX) is a broad, multidisciplinary journal devoted to publishing new experimental and theoretical research covering all areas of fundamental, engineering and applied plasma science at low and high temperatures. Topics of particular interest include:

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- plasma diagnostics, instrumentation and facilities
- plasma modelling and simulations
- nonlinear phenomena in natural and laboratory plasmas
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- data-driven plasma science

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# Plasma Science and Technology

[iopscience.org/pst](http://iopscience.org/pst)



Volume	23
Frequency	12
Online ISSN	2058-6272
Print ISSN	1009-0630
CODEN	PSTHC3

## Editor-in-chief

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*Plasma Science and Technology* (PST) offers novel experimental and theoretical results in plasma physics to the international research community, highlighting the progress of interdisciplinary and applied aspects of the field.

PST publishes research articles, letters, reviews, brief communications and research notes.

PST is the journal of choice for plasma research from China and publishes across a wide range of plasma-related topics, including:

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# Plasma Sources Science and Technology

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Volume	30
Frequency	12
Online ISSN	1361-6595
CODEN	PSTEEU

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- plasma sources and the processes initiated or sustained by them
- theoretical, computational and experimental techniques and data for the study of low-temperature plasmas

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# Progress in Biomedical Engineering

[iopscience.org/prgb](http://iopscience.org/prgb)



Volume	3
Frequency	4
Online ISSN	2516-1091
CODEN	PBERB8

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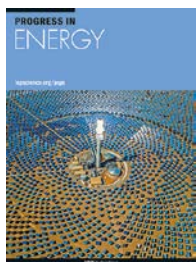
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Volume	3
Frequency	4
Online ISSN	2516-1083
CODEN	PERNDG

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Volume	133
Frequency	12
Online ISSN	1538-3873
CODEN	PASPAU

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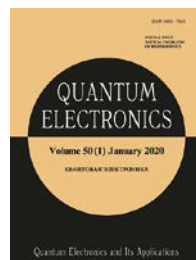


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# Quantum Electronics

[iopscience.org/qe](http://iopscience.org/qe)



Volume	51
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Online ISSN	1468-4799
Print ISSN	1063-7818
CODEN	QUELEZ

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Volume	6
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Online ISSN	2058-9565
CODEN	QSTUAH

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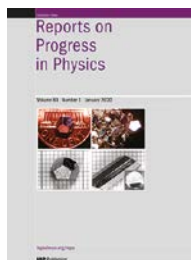
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Volume	84
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Online ISSN	1361-6633
Print ISSN	0034-4885
CODEN	RPPHAG

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Print ISSN	0036-021X
CODEN	RCRVAB

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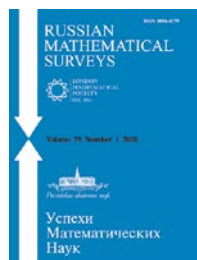
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# Russian Mathematical Surveys

[iopscience.org/rms](http://iopscience.org/rms)



Volume	76
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Print ISSN	0036-0279

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# Sbornik: Mathematics

[iopscience.org/msb](http://iopscience.org/msb)



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Print ISSN	1064-5616

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# Semiconductor Science and Technology

[iopscience.org/sst](http://iopscience.org/sst)



Volume	36
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Print ISSN	0268-1242
CODEN	SSTEET

## Editor-in-chief

Koji Ishibashi, Advanced Device Laboratory, RIKEN, Japan

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# Smart Materials and Structures

[iopscience.org/sms](http://iopscience.org/sms)



Volume	30
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Online ISSN	1361-665X
Print ISSN	0964-1726
CODEN	SMSTER

## Editor-in-chief

C S Lynch, University of California, Los Angeles, USA

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[iopscience.org/sust](http://iopscience.org/sust)



Volume	34
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Online ISSN	1361-6668
Print ISSN	0953-2048
CODEN	SUSTEF

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# Surface Topography: Metrology and Properties

[iopscience.org/stmp](http://iopscience.org/stmp)



Volume	9
Frequency	4
Online ISSN	2051-672X
CODEN	STMPCW

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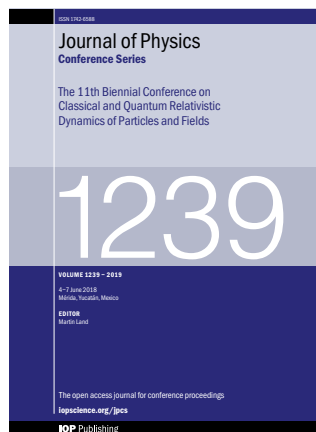
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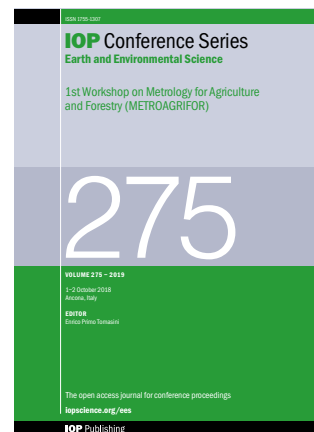
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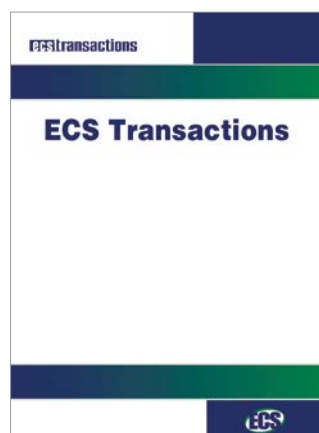
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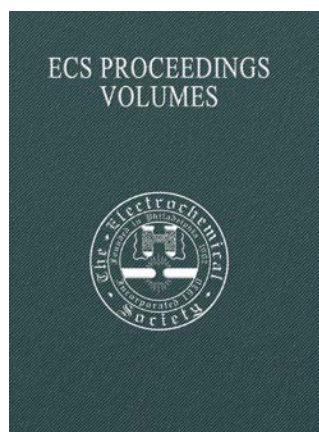


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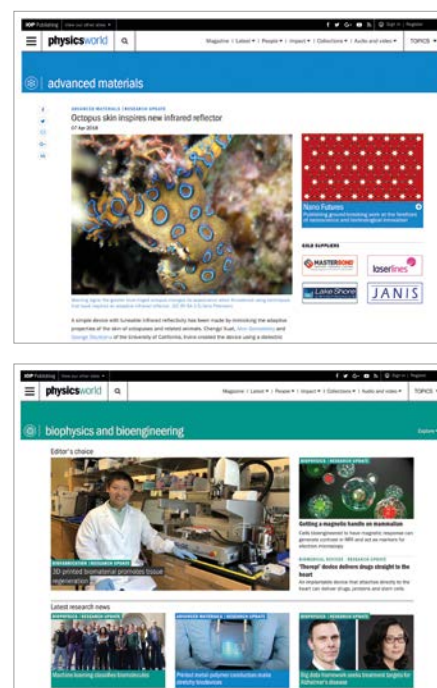
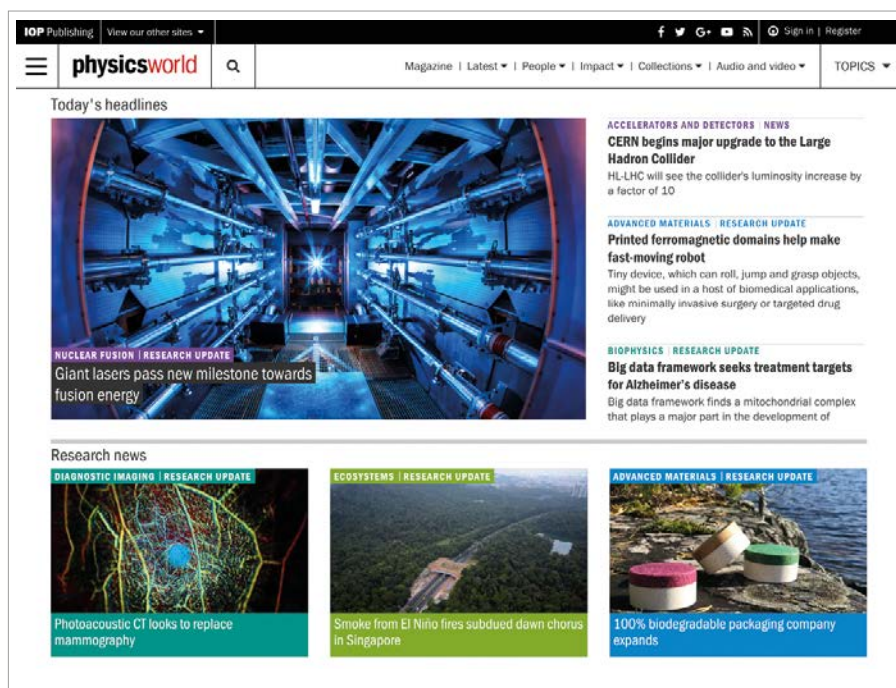
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Volume	34
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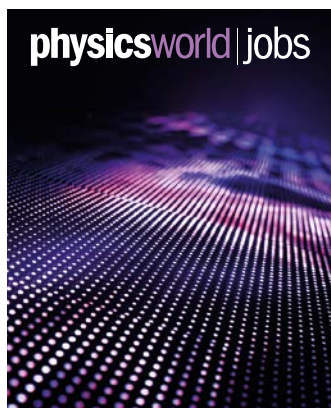
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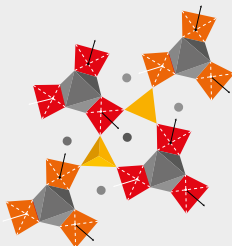
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**Cover image:** inspired by a figure showing the crystal and helical magnetic structure of the iron-containing langasite family multiferroics

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