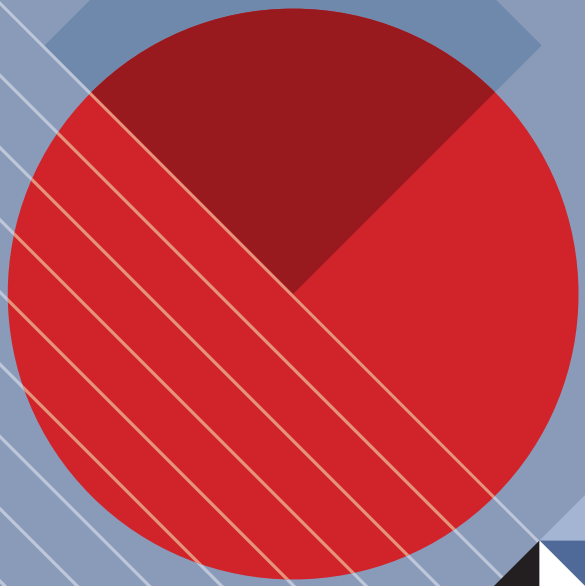
IOP

Product Catalogue **2018**

ioppublishing.org



IOP Publishing | science first

IOP Publishing is a multi-channel publisher of scientific content focusing on physics, materials science, biosciences, astronomy and astrophysics, environmental sciences, mathematics, and interdisciplinary sciences, including education. Currently publishing 75 journals, a digital book programme, conference proceedings and providing expert science journalism, we reflect the changing nature of scientific research.

Our programme spans foundational sciences to their application and commercialisation. We also publish many of our products on behalf of other scientific organisations and represent their needs and those of their members and contributors.


Quantum Science and Technology
IOP Publishing | science first
NANO FUTURES
Shaping the Nanoscience Landscape
nano-futures.org
A multidisciplinary, high-impact journal publishing research at the forefront of nanoscience and technological innovation
IOP Publishing | science first
IOP Publishing | science first
Journal of Physics Communications
A new open access journal for high-quality research in all areas of physics
iopscience.org/jpco
IOP Publishing | science first
2D Materials
2dmaterials.org
Fast-tracking the publication of breakthrough research on graphene and related 2D materials
Flexible and Printed Electronics
iopscience.org/fpe
Surface Topography
Metrology and Properties
iopscience.org/stmp
A journal dedicated to the progress of surface metrology, surface characterisation, instrumentation and properties of surfaces
IOP materials

Contents

Journals by subject area

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.

Physics

Materials

Biosciences

Environmental sciences

Astronomy and astrophysics

Mathematics

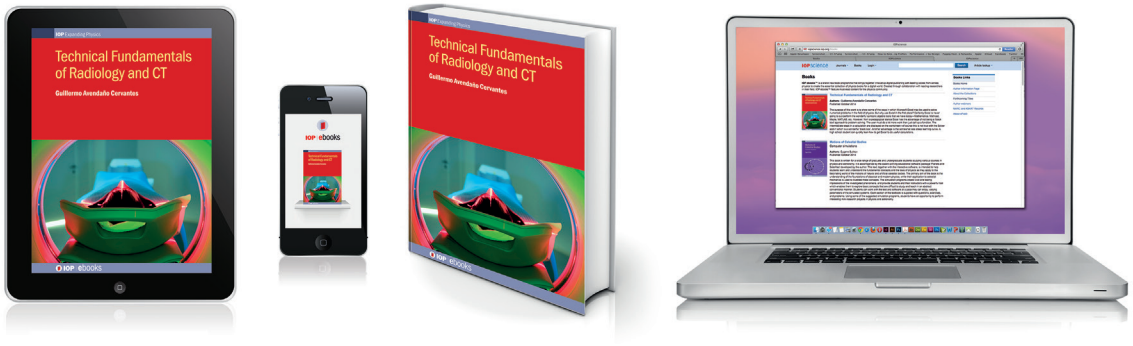
Interdisciplinary

Other products

IOP ebooks™

IOP ebooks is an award-winning book programme that brings together innovative digital publishing with leading voices from across physics and related disciplines.

We are the first STM society publisher to build an ebook programme on a fully digital vision, putting the reader in control and enabling them to go beyond the constraints of the printed page for enhanced discovery.



IOP | ebooks™

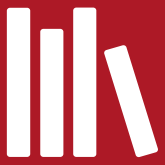
What makes this award-winning programme different from other society collections?

The IOP ebook programme is a great choice for your institution. As well as offering high-quality texts that are written by leaders in exciting scientific areas and delivered through innovative technologies, the collections offer a range of benefits to librarians and researchers:

No DRM
We offer libraries simultaneous access so your users don't have to wait for the books they need

One-time, perpetual purchase with no maintenance fees
Ensure the content you buy is for the researchers of today and tomorrow

More choice for researchers
All ebook chapters can be downloaded in EPUB3, HTML, MOBI and PDF. We also offer whole-book downloads



New and free to read
The *Physics World Discovery* collection provides readers with expert introductions to the hottest topics

Fully integrated platform
All book and journal content sits on *IOPscience* and is semantically enriched for seamless searching

Broad coverage
Pioneering books in more than 20 subject areas within the physical sciences

Bring your readers closer to research
Interactive figures and author webinars for an enriched research experience

High usage
More than 510,000 downloads in two years across our collections*

* Jan. 2015 – Dec. 2016

Easier integration with your library catalogue
Free MARC records and KBART-formatted title lists

Leading the way in publishing technology
Providing the first physics ebooks with fully embedded video content as standard

IOP ebooks™

Something for everyone at your library

Our ebook collections not only offer high-quality research across the scientific landscape, but have been created to meet the needs of all your library users, from students and early career researchers to established leaders in their fields.

Expanding Physics™

Expanding Physics brings together leading experts from across the breadth of physics to serve the needs of advanced students and researchers in academia and industry. All books in this collection are high-quality, in-depth texts written by pioneering authors from across the globe, offering your library access to work from some of the most eminent researchers of our time.

IPEM Institute of Physics and Engineering in Medicine

Expanding Physics now includes IPEM-IOP Series in Physics and Engineering in Medicine and Biology, compact textbooks and reference books produced through IOP's partnership with IPEM.

Concise Physics™

Developed with Morgan & Claypool Publishers, Concise Physics publishes short texts in more than 30 distinct areas of physics. These books provide a snapshot of current research, an introduction to key principles, a look back at historical events and people, and even delve into issues surrounding effective teaching methods. They are accessible texts aimed at researchers, students, teachers and anyone interested in physics at all levels.

AAS-IOP Astronomy

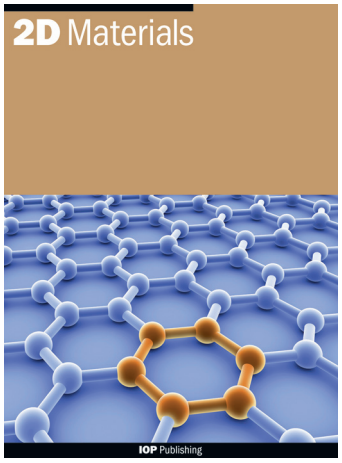
IOP's partnership with the American Astronomical Society (AAS) facilitates an exciting new collection of astronomy and astrophysics ebooks to further enhance the AAS mission: "to share humanity's scientific knowledge of the universe."

physicsworld Discovery™

Written by leading voices from across the scientific community, *Physics World Discovery* books provide an expert introduction to the hottest topics in physics, spanning established and emerging research disciplines.

These very short books combine the subject matter expertise of the authors with IOP Publishing's journalism skills. The content is edited and shaped to make it accessible and readable with broad appeal – everything one would expect from the award-winning *Physics World* journalism team. *Physics World Discovery* books provide professional physicists at all stages of their careers – whether students, early career researchers or senior scientists – with the best possible introduction to a topic.

Start exploring the collection today at **physicsworlddiscovery.org**.



2D Materials

iopscience.org/2dm

ELECTRONIC ONLY

IMPACT FACTOR 6.937

Editor-in-chief

- V Fal'ko, University of Manchester, UK

Associate editors-in-chief

- Regional editor for North America: T F Heinz, Stanford University, Stanford, CA, USA
- Regional editor for Asia: B-H Hong, Seoul National University, Korea

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

2DM publishes new research, topical reviews and commentaries that are vital reading for scientists and engineers working on any aspect of this important area of research.

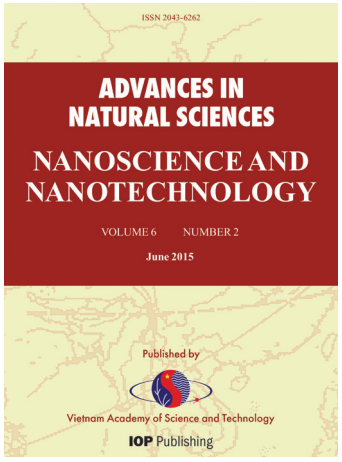
The journal covers all aspects of 2D materials, including fundamental properties (experiments, theory and simulations), novel applications (electrical, mechanical, chemical and biomedical) and synthesis/fabrication techniques. Specific materials of interest include, but are not limited to:

- graphene and graphene-derived materials (such as graphene oxides, graphene quantum dots, etc)
- silicene and germanene/silicane and germanane
- boron nitride
- transition metal dichalcogenides
- 2D topological insulators
- complex oxides
- composite materials
- other novel 2D layered structures

2DM readers can also enjoy the video abstracts that accompany many articles, allowing authors to go beyond the constraints of the written article to personally communicate the importance and value of their work to the journal's global multidisciplinary audience.

Other journals of interest	
• Flexible and Printed Electronics	p28
• Journal of Physics: Condensed Matter	p43
• Nano Futures	p57
• Nanotechnology	p58

Volume	5
Frequency	4
Online ISSN	2053-1583
CODEN	DMATB7
Online archive	2014–2017 available free with journal subscription



PARTNER

- Vietnam Academy of Science and Technology

Advances in Natural Sciences: Nanoscience and Nanotechnology

OPEN ACCESS

ELECTRONIC ONLY

iopscience.org/ansn

Editor-in-chief

- P Ngoc Minh, Hanoi, Vietnam

Deputy editor-in-chief

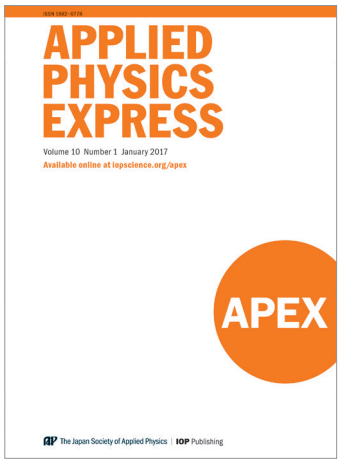
- N Bich Ha, Hanoi, Vietnam

Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN) produces quarterly volumes of research covering all aspects of nanoscience and nanotechnology.

Published using the gold open access model, ANSN gives its international readership – including primary researchers, industry professionals and undergraduate nanotechnology students – unlimited access to its content. A corresponding print version is created for local use in Vietnam.

Other journals of interest

Volume	9
Frequency	4
Online ISSN	2043-6262
CODEN	ANSNCK
Online archive	2010–2017 freely available to all at **iopscience.org/ansn**



PARTNER

- The Japan Society of Applied Physics

Applied Physics Express

iopscience.org/apex

10th ANNIVERSARY

IMPACT FACTOR 2.667

Chief executive editor

- Yutaka Majima, Tokyo Institute of Technology, Japan

Editor-in-chief

- Tadashi Shibata, The Japan Society of Applied Physics, Japan

Celebrating its 10th anniversary in 2018, *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.

APEX is the successor to the *Japanese Journal of Applied Physics* (JJAP) letters section, JJAP Part 2, from which it has inherited a worldwide reputation for high scientific quality and prompt publication. In the journal policy, emphasis is placed on the high scientific and/or technological impact of its published papers. Fields of interest include:

- semiconductors, dielectrics and organic materials
- photonics, quantum electronics, optics and spectroscopy
- spintronics, superconductivity and strongly correlated materials
- device physics including quantum information processing
- nanoscale science and technology
- crystal growth, surfaces, interfaces, thin films and bulk materials
- plasmas, applied atomic and molecular physics, and applied nuclear physics
- device processing, fabrication and measurement technologies, and instrumentation
- cross-disciplinary areas such as bioelectronics/photonics, biosensing, environmental/energy technologies and MEMS

Other journals of interest	
• Flexible and Printed Electronics	p28
• Japanese Journal of Applied Physics	p32
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Nanotechnology	p58
• Plasma Sources Science and Technology	p70
• Semiconductor Science and Technology	p79
• Superconductor Science and Technology	p81

Volume	11
Frequency	12
Print ISSN	1882-0778
Online ISSN	1882-0786
CODEN	APEPC4
Online archive	2008–2017

PARTNER

- American Astronomical Society

The Astronomical Journal

ELECTRONIC ONLY

IMPACT FACTOR 2.609

iopscience.org/aj

Editor-in-chief

- Ethan Vishniac, John Hopkins University, Maryland, USA

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.

AJ articles present significant scientific results derived from observations, including descriptions of data capture, surveys, dynamical processes, analysis techniques and astrophysical interpretation, as well as theoretical models. This broad coverage, along with discussions of instrumentation and associated software, make this journal an essential resource for anyone interested in astronomy and planetary sciences research.

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.

Other journals of interest	
• The Astrophysical Journal	p14
• Classical and Quantum Gravity	p22
• Journal of Cosmology and Astroparticle Physics	p34
• Reports on Progress in Physics	p74

Volume	155–156
Frequency	12
Online ISSN	1538-3881
CODEN	ANJOAA
Online archive	Rolling one-year archive available with journal subscription

PARTNER

- American Astronomical Society

The Astrophysical Journal

ELECTRONIC ONLY

IMPACT FACTOR 5.533

iopscience.org/apj

AAS Editor-in-chief

- Ethan Vishniac, Johns Hopkins University, MD, USA

Letters editor

- F Rasio, Northwestern University, IL, USA

Launched in 1895 by George E Hale and James E Keeler, *The Astrophysical Journal* (ApJ) is the foremost astronomical and astrophysical research journal in the world. Published for the American Astronomical Society by IOP Publishing, ApJ is devoted to disseminating original research on recent developments, discoveries and theories not previously published in astronomy and astrophysics.

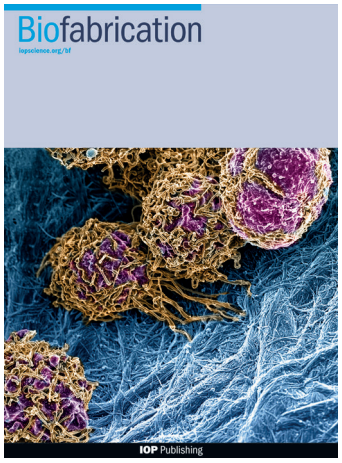
This prestigious journal has been the first to report many of the classic discoveries of the 20th century and has also presented much of the important recent work on quasars, pulsars, neutron stars, black holes, solar and stellar magnetic fields, X-rays and interstellar matter.

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.

Other journals of interest

The Astrophysical Journal and The Astrophysical Journal Letters (ApJL)	
Volume	852–869
Frequency	36
Online ISSN (ApJ)	1538-4357
Online ISSN (ApJL)	2041-8213
CODEN	ASJOAB
Online archive	Rolling one-year archive available with journal subscription

The Astrophysical Journal Supplement Series (ApJS)	
Volume	234–239
Frequency	12
Online ISSN	1538-4365
CODEN	APJSA2
Online archive	Rolling one-year archive available with journal subscription



PARTNER

- International Society for Biofabrication

Biofabrication

iopscience.org/bf

ELECTRONIC ONLY

IMPACT FACTOR 5.240

Editor-in-chief

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

Biofabrication (BF), the official journal of the International Society for Biofabrication, 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 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

Other journals of interest

- Biomedical Materials p17
- Nanotechnology p58

Volume	10
Frequency	4
Online ISSN	1758-5090
CODEN	BIOFCK
Online archive	2009–2017 available free with journal subscription

Bioinspiration & Biomimetics

iopscience.org/bb

ELECTRONIC ONLY

IMPACT FACTOR 2.939

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:

- systems, designs and structure
- 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

Other journals of interest	
• Biomedical Materials	p17
• Smart Materials and Structures	p80

Volume	13
Frequency	6
Online ISSN	1748-3190
CODEN	BBIICI
Online archive	2007–2017 available free with journal subscription 2006 available in the IOP Journal Archive

Biomedical Materials

iopscience.org/bmm

ELECTRONIC ONLY

IMPACT FACTOR 2.469

Editor-in-chief

- Myron Spector, Harvard Medical School, VA Boston Healthcare System, MA, USA

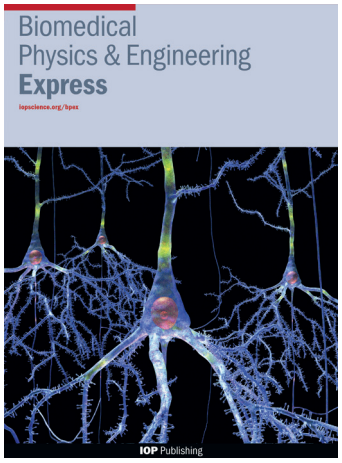
Biomedical Materials™ (BMM) publishes articles on advances in biomaterials that contribute to the research community's knowledge of the composition, properties and performance of materials for tissue engineering and regenerative medicine.

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

Other journals of interest	
• Biofabrication	p15
• Bioinspiration & Biomimetics	p16

Volume	13
Frequency	6
Online ISSN	1748-605X
CODEN	BMBUCS
Online archive	2007–2017 available free with journal subscription 2006 available in the IOP Journal Archive



ENDORSED BY

- Institute of Physics and Engineering in Medicine

Biomedical Physics & Engineering Express

ELECTRONIC ONLY

iopscience.org/bpex

Editor-in-chief

- R Jeraj, University of Wisconsin, WI, USA

Deputy editors

- Indrin Chetty, Henry Ford Hospital, USA
- Thorsten Wohland, National University of Singapore, Singapore
- K Panicos, City University of London, UK

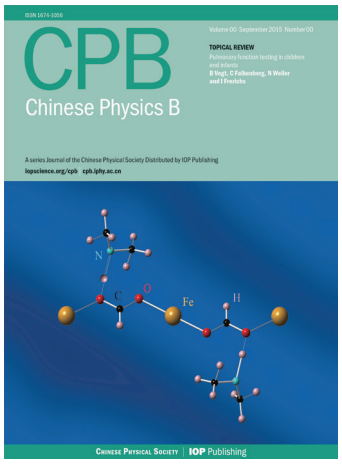
Launched in 2015, *Biomedical Physics & Engineering Express*™ (BPEX) is an inclusive, international, multidisciplinary journal devoted to publishing new research on any application of physics and/or engineering in medicine and/or biology. The journal covers three key independent, yet complementary scientific 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.

BPEX is aimed at a diverse readership, appealing to biologists, physicists, engineers, biophysicists, medical physicists and bioengineers. BPEX publishes research articles, notes and topical reviews. The journal considers direct submissions and also articles transferred from other relevant titles, offering the prospect of rapid decision-making.

BPEX is now officially endorsed by the Institute of Physics and Engineering in Medicine (IPEM).

Other journals of interest	
• Biofabrication	p15
• Biomedical Materials	p17
• Journal of Neural Engineering	p38
• Nanotechnology	p58
• Physical Biology	p63
• Physics in Medicine & Biology	p65

Volume	4
Frequency	6
Online ISSN	2057-1976
CODEN	BPEEAE
Online archive	2015–2017 available free with journal subscription



PARTNER

- Chinese Physical Society

Chinese Physics B

iopscience.org/cpb

IMPACT FACTOR 1.223

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 unclear physics and the physics of elementary particles and fields, reflecting the high quality and wide scope of Chinese research.

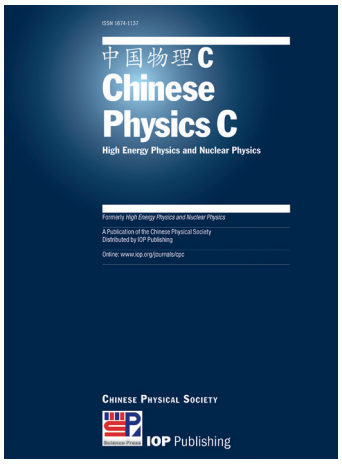
The journal's broad focus makes it an important source of current research in physics, materials, mechanics and engineering.

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

- condensed matter and materials physics
- atomic, molecular and optical physics
- statistical, nonlinear and soft-matter physics
- plasma physics
- interdisciplinary physics

Other journals of interest	
• Chinese Physics Letters	p21
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• New Journal of Physics	p59

Volume	27
Frequency	12
Print ISSN	1674-1056
Online ISSN	2058-3834
CODEN	CPBHAJ
Online archive	2008–2017 available free with journal subscription 1992–2007 available in the IOP Journal Archive



PARTNERS

- Chinese Physical Society
- Institute of High Energy Physics, Chinese Academy of Sciences
- Institute of Modern Physics, Chinese Academy of Sciences

Chinese Physics C

iopscience.org/cpc

IMPACT FACTOR 5.084

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 publishes original research papers, letters and reviews, covering theory, experiments and applications in the fields of particle physics, nuclear physics, astrophysics, cosmology and accelerator physics.

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

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

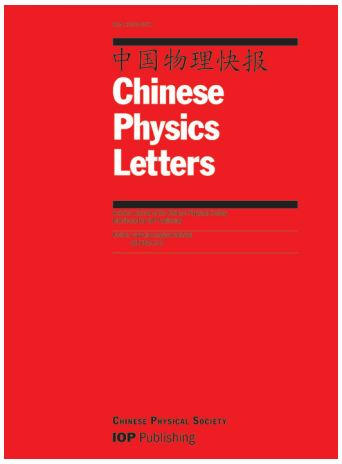
The journal publishes original research papers, letters and reviews. The letters section covers short reports on the latest important scientific results, published as quickly as possible. Such breakthrough research articles have very high priority for publication.

High-quality research papers and rapid communications published in CPC, such as the latest Atomic Mass Evaluation (AME) and Review of Particle Physics (RPP), make it a key resource for researchers in high-energy and nuclear physics.

CPC benefits from sponsorship by the Chinese Physical Society and is supported by the Institute of High Energy Physics and the Institute of Modern Physics of the Chinese Academy of Sciences. Prior to 2008, the journal was known as *High-Energy Physics and Nuclear Physics*.

Other journals of interest	
• The Astrophysical Journal	p14
• Classical and Quantum Gravity	p22
• Journal of Cosmology and Astroparticle Physics	p34
• Journal of Physics G: Nuclear and Particle Physics	p45

Volume	42
Frequency	12
Print ISSN	1674-1137
Online ISSN	2058-6132
CODEN	CPCHCQ
Online archive	2008–2017 available free with journal subscription



PARTNER

- Chinese Physical Society

Chinese Physics Letters

iopscience.org/cpl

IMPACT FACTOR 0.800

Editor-in-chief

- BF Zhu, Tsinghua University, Beijing, China

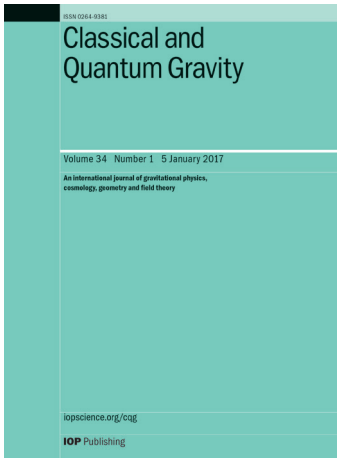
Chinese Physics Letters (CPL) attracts a growing, international readership, which strengthens the journal's coverage of major advances in all aspects of physics.

Letters are an increasingly important aspect of international research. CPL fulfils this requirement for the *Chinese Physics* series of journals published by the Chinese Physical Society.

The journal's "Express Letters" section is dedicated to the rapid publication of research that has novelty and importance.

Other journals of interest

Volume	35
Frequency	12
Print ISSN	0256-307X
Online ISSN	1741-3540
CODEN	CPLEEU
Online archive	2008–2017 available free with journal subscription 1984–2007 available in the IOP Journal Archive



Classical and Quantum Gravity

iopscience.org/cqg

IMPACT FACTOR 3.119

Editor-in-chief

- C M Will, University of Florida, FL, 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.

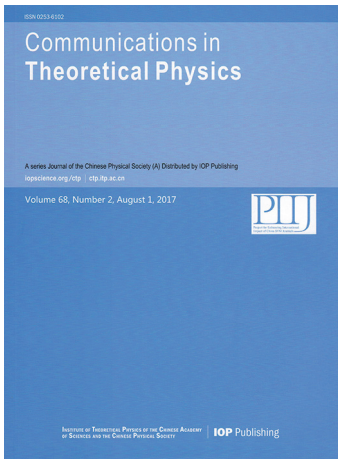
CQG subscribers have access to high-quality papers on many subjects, including:

- classical general relativity
- applications of relativity
- experimental gravitation, including gravitational waves
- cosmology and the early universe
- quantum gravity
- supergravity, superstrings and supersymmetry
- 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.

Other journals of interest	
• The Astronomical Journal	p13
• The Astrophysical Journal	p14
• Chinese Physics C	p20
• Journal of Cosmology and Astroparticle Physics	p34
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics G: Nuclear and Particle Physics	p45

Volume	35
Frequency	24
Print ISSN	0264-9381
Online ISSN	1361-6382
CODEN	CQGRDG
Online archive	2008–2017 available free with journal subscription 1984–2007 available in the IOP Journal Archive



PARTNERS

- Chinese Physical Society
- Institute of Theoretical Physics, Chinese Academy of Sciences

Communications in Theoretical Physics

IMPACT FACTOR 0.989

iopscience.org/ctp

Chief editor

- CP Sun, Beijing Computational Science Research Center, Beijing, China

Published on a monthly basis, *Communications in Theoretical Physics* (CTP) is made available to the international research community by the Institute of Theoretical Physics of the Chinese Academy of Sciences and the Chinese Physical Society.

CTP is devoted to reporting new developments in theoretical physics, and covers topics in interdisciplinary areas such as biophysics and computational physics, as well as:

- atomic and molecular physics
- condensed matter and theory of statistical physics
- nuclear theory
- fluid theory and plasmas
- elementary particle physics and quantum field theory
- quantum mechanics and quantum optics
- theoretical astrophysics
- cosmology
- relativity

In addition to original regular articles, letters, research notes and rapid communications, CTP also publishes review articles. All article submissions, peer review and production – from acceptance to publication – are handled by the journal's editorial office in China.

Other journals of interest	
• Chinese Physics B	p19
• Chinese Physics Letters	p21
• Journal of Optics	p39
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Statistical Mechanics: Theory and Experiment	p48

Volume	69–70
Frequency	12
Print ISSN	0253-6102
Online ISSN	1572-9494
CODEN	CTPHDI
Online archive	2008–2017 available free with journal subscription 2005–2007 available in the IOP Journal Archive

Convergent Science Physical Oncology

ELECTRONIC ONLY

iopscience.org/cspo

Founding editors

- C Baas, National Cancer Institute, TX, USA
- K Bethel, Scripps Clinic, CA, USA
- P Kuhn, University of Southern California, CA, USA
- J Nieva, University of Southern California, CA, USA

Launched in 2015, *Convergent Science™ Physical Oncology* (CSPO) is the first interdisciplinary journal dedicated to integrating physical sciences with cancer biology and clinical oncology in order to advance our understanding and treatment of cancer in patients. The journal is supported by the four Founding Editors – an oncologist, a physicist, a pathologist and a patient advocate – to provide editorial coverage that reflects the scope of the journal.

As well as research articles, notes and topical reviews, CSPO features patient perspectives, outcomes, news and views on a diverse range of topics, including:

- biosignatures
- therapeutics
- treatments and interventions
- theoretical and experimental modelling
- spatial and temporal evolution of cancer
- patient-orientated science and perspectives

Other journals of interest	
• Physical Biology	p63
• Physics in Medicine & Biology	p65

Volume	4
Frequency	4
Online ISSN	2057-1739
CODEN	CSPOCV
Online archive	2015–2017 available free with journal subscription

Environmental Research Letters

erl.iop.org

OPEN ACCESS

ELECTRONIC ONLY

IMPACT FACTOR 4.404

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.

The core of ERL's high-impact research content draws from observations, numerical modelling, and theoretical and experimental approaches to environmental science – especially science relevant to policy, impacts and decision-making in all components of the Earth system.

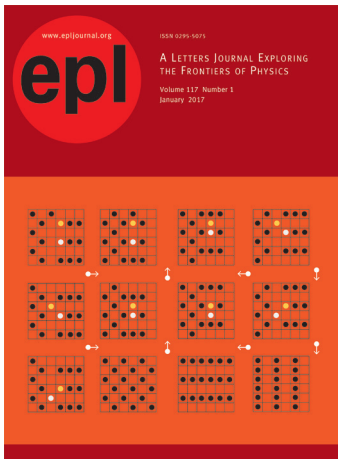
ERL's diverse scope ranges from physical and natural sciences to economics, political, sociological and legal studies, including:

- biodiversity
- biogeochemical cycles
- climate
- energy
- environmental health, risk assessment, policy and law
- pollution
- natural resources, water, food

Cover image, top left: Inspired by **Ariel Miara *et al*** 2013 *Environ. Res. Lett.* **8** 025017 and **Robert J Stewart *et al*** 2013 *Environ. Res. Lett.* **8** 025010. Artwork by Milicia Jevtic, CUNY Environmental CrossRoads Initiative. Figure previously published in **Ariel Miara and Charles J Vörösmarty** 2013 *Environ. Sci.: Processes Impacts* **15** 1113.

Other journals of interest	
• IOP Conference Series: Earth and Environmental Science	p84
• Journal of Geophysics and Engineering	p35
• New Journal of Physics	p59

Volume	13	Online ISSN	1748-9326
Frequency	12	CODEN	ERLNAL
Online archive	2006–2017 freely available at **erl.iop.org**		



PARTNERS

- European Physical Society
- EDP Sciences
- Società Italiana di Fisica

EPL

www.epljournal.org

IMPACT FACTOR 1.957

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*.

EPL publishes original, high-quality letters in all areas of physics, ranging from condensed matter topics and interdisciplinary research to astrophysics, geophysics, and plasma and fusion sciences, including those with application potential. The journal communicates new results and findings that merit rapid publication. EPL also publishes comments on letters previously published in the journal.

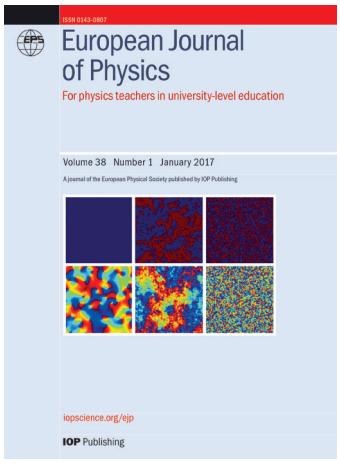
EPL enjoys the benefits of international partnership. It is co-managed by scientists for the international scientific community, and published under the scientific policy and control of the European Physical Society by EDP Sciences, IOP Publishing and Società Italiana di Fisica for a partnership of 17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

Publishing 24 online issues per year (with only 12 printed journals containing two issues each), increasing in prestige and broadening its coverage of a range of physics topics, EPL publications are focused on novel, scientifically significant, developing areas of science, including high-profile topics such as quantum simulators, topological insulators, metamaterials, soft matter, high-energy physics, and plasma physics and fusion sciences, as well as interdisciplinary areas such as bio- and medical-physics topics.

EPL has an agreement for mutual transfer of manuscripts with the *Journal of Physics* (JPhys) series and many other journals at IOP Publishing, as well as with the *European Physics Journal* series (EPJ) published by EDP Sciences. Article transfers may go in either direction. This agreement enables an article that would be more suitable to another journal to be transferred with the related material and keep the original submission date. This agreement respects the editorial independence of all of the journals involved.

Other journals of interest

Volume	121–124	Online ISSN	1286-4854
Frequency	12	CODEN	EULEE8
Print ISSN	0295-5075		
Online archive	2008–2017 available free with journal subscription 1986–2007 available in the IOP Journal Archive		



PARTNER

- European Physical Society

European Journal of Physics

iopscience.org/ejp

IMPACT FACTOR 0.614

Editor-in-chief

- M Vollmer, University of Applied Sciences, Brandenburg, Germany

With a worldwide readership and authors from every continent, *European Journal of Physics* (EJP) is an international journal dedicated to improving the standard of teaching physics courses in universities and other higher-education institutions.

EJP's wide-ranging scope includes:

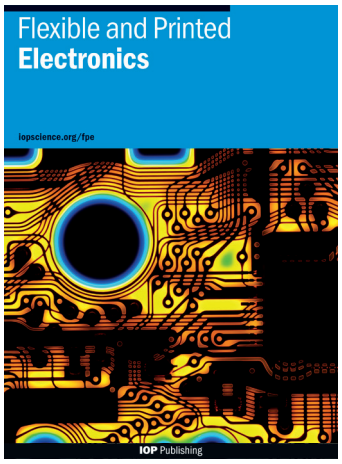
- explanations of how contemporary research can inform the understanding of physics at university level
- original insights into the derivation of results
- descriptions of novel laboratory exercises illustrating new techniques of general interest
- articles of a scholarly or reflective nature that are aimed to be of interest to, and at a level appropriate for, physics students or recent graduates
- descriptions of successful and original student projects, whether experimental, theoretical or computational
- discussions of the history, philosophy and epistemology of physics at a level accessible to physics students and teachers
- reports of new developments in physics curricula and techniques for teaching physics
- physics education research – we welcome articles in this section that highlight the current state of the field of physics education research, report on progress in key areas and address key issues
- Reviews articles in EJP are flexible length systematic, evidence-based reviews of important and topical issues and are intended to summarise accepted practice and report on recent progress in selected areas

EJP is a place for teachers, instructors and professors to exchange their views on teaching physics at university level and share their experiences. 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 schools, colleges and universities, companies with an education programme, government-funded bodies and government-funding departments.

Other journals of interest

- Physics Education p64
- Reports on Progress in Physics p74

Volume	39
Frequency	6
Print ISSN	0143-0807
Online ISSN	1361-6404
CODEN	EJPHD4
Online archive	2008–2017 available free with journal subscription 1980–2007 available in the IOP Journal Archive



Flexible and Printed Electronics

iopscience.org/fpe

ELECTRONIC ONLY

Launched in 2015, *Flexible and Printed Electronics*™ (FPE) is a new 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:

- materials and devices for stretchable electronics and conformal biointerfaces
- 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

Other journals of interest

Volume	3
Frequency	4
Online ISSN	2058-8585
CODEN	FPELAB
Online archive	2016–2017 available free with journal subscription

PARTNER

- The Japan Society of Fluid Mechanics

Fluid Dynamics Research

iopscience.org/fdr

IMPACT FACTOR 0.677

Editor-in-chief

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

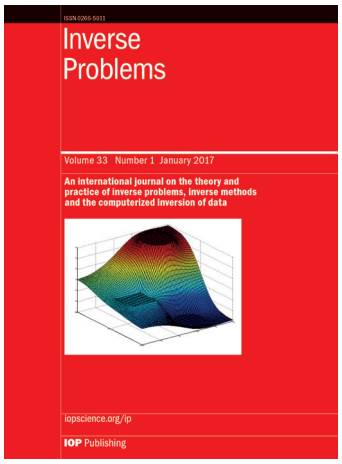
Fluid Dynamics Research (FDR) is published on behalf of The Japan Society of Fluid Mechanics. This international journal caters for researchers in all areas of fluid dynamics, including: aerodynamics, nano-fluids, fluid motion or modelling, turbulence, waves, rogue waves, vortices, bifurcation, bubbles,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

Other journals of interest

Volume	50
Frequency	6
Print ISSN	0169-5983
Online ISSN	1873-7005
CODEN	FDRSEH
Online archive	2008–2017 available free with journal subscription 1986–2007 available in the IOP Journal Archive



Inverse Problems

iopscience.org/ip

IMPACT FACTOR
1.620

Editor-in-chief

- S R Arridge, University College London, UK

Inverse Problems™ (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

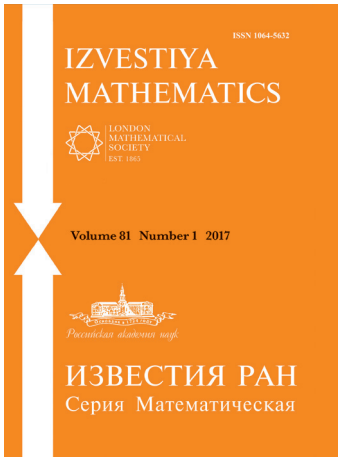
The journal's scope includes original contributions to methods of solving mathematical, physical and applied problems. All papers published in IP meet the highest standards of scientific quality, contain significant and original new science, and present substantial advancement in the field.

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.

Other journals of interest	
• Journal of Physics A: Mathematical and Theoretical	p40
• Measurement Science and Technology	p52
• Nonlinearity	p60
• Physics in Medicine & Biology	p65
• Physiological Measurement	p67

Volume	34
Frequency	12
Print ISSN	0266-5611
Online ISSN	1361-6420
CODEN	INPEEY
Online archive	2008–2017 available free with journal subscription 1985–2007 available in the IOP Journal Archive



PARTNERS

- Turpion
- Russian Academy of Sciences
- London Mathematical Society

Izvestiya: Mathematics

iopscience.org/im

IMPACT FACTOR **0.725**

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. Since 1995, IM has been published jointly by Turpion, the Russian Academy of Sciences and the London Mathematical Society.

The journal publishes only original research papers containing full results. Whilst the coverage spans all fields of mathematics, the journal is particularly indispensable reading for anyone with an interest in algebraic geometry and number theory. Special attention is also given to general algebra, mathematical logic, mathematical analysis, geometry, topology and differential equations.

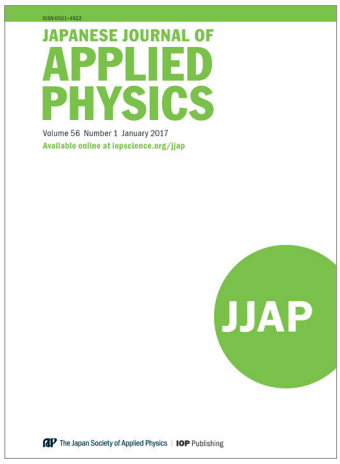
The IM archive provides access to the golden age of Russian mathematics and related fields. It includes research by many Fields Medal-winning authors, as well as other leading figures, both past and present, who have played a pivotal role in the history and development of the Russian math schools.

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

Researchers and postdocs specialising in various branches of mathematics and related sciences, as well as lecturers, students and postgraduate students, will find this journal of interest.

Other journals of interest	
• Journal of Physics A: Mathematical and Theoretical	p40
• Nonlinearity	p60
• Russian Mathematical Surveys	p77
• Sbornik: Mathematics	p78

Volume	82
Frequency	6
Print ISSN	1064-5632
Online ISSN	1468-4810
Online archive	1967–2017 available free with journal subscription 1967–2007 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 back to the first English translation volume has been hosted by IOP Publishing at **iopscience.org/im**



PARTNER

- The Japan Society of Applied Physics

Japanese Journal of Applied Physics

iopscience.org/jjap

IMPACT FACTOR 1.384

Chief executive editor

- Yutaka Majima, Tokyo Institute of Technology, Tokyo, Japan

Editor-in-chief

- Tadashi Shibata, The Japan Society of Applied Physics

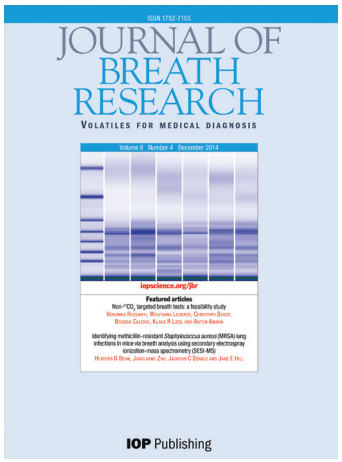
The *Japanese Journal of Applied Physics* (JJAP) is an international journal published by IOP Publishing on behalf of The Japan Society of Applied Physics for the advancement and dissemination of knowledge in all fields of applied physics. The journal publishes articles dealing with the applications of physical principles as well as articles concerning the understanding of physics that have particular applications in mind. The journal not only covers all aspects of modern technology such as semiconductor devices (including VLSI technology, photonic devices, superconductors and magnetic recording) but also covers other diverse areas such as plasma physics, particle accelerators, nanoscience and technology, and applied bioscience. Articles in interdisciplinary areas with potential technological implications are strongly encouraged.

JJAP is published monthly and 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. These articles are 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.

Other journals of interest	
• Applied Physics Express	p12
• Flexible and Printed Electronics	p28
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Nanotechnology	p58
• Plasma Sources Science and Technology	p70
• Semiconductor Science and Technology	p79
• Superconductor Science and Technology	p81

Volume	57
Frequency	12 + 18 special issues
Print ISSN	0021-4922
Online ISSN	1347-4065
CODEN	JJAPB6
Online archive	1962–2017



Journal of Breath Research

ELECTRONIC ONLY

IMPACT FACTOR 4.318

iopscience.org/jbr

Editor-in-chief

- Joachim D Pleil, US Environmental Protection Agency, Research Triangle Park and University of North Carolina, Chapel Hill, NC, 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

Other journals of interest	
• Measurement Science and Technology	p52
• Physiological Measurement	p67

Volume	12
Frequency	4
Online ISSN	1752-7163
CODEN	JBROBW
Online archive	2007–2017 available free with journal subscription

PARTNER

- International School for Advanced Studies (SISSA)

Journal of Cosmology and Astroparticle Physics

ELECTRONIC ONLY

IMPACT FACTOR 4.734

iopscience.org/jcap

Scientific director

- V 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 the latest developments in the theory of all fundamental interactions and their cosmological implications (e.g. M-theory and cosmology, brane cosmology). JCAP's coverage also includes topics such as:

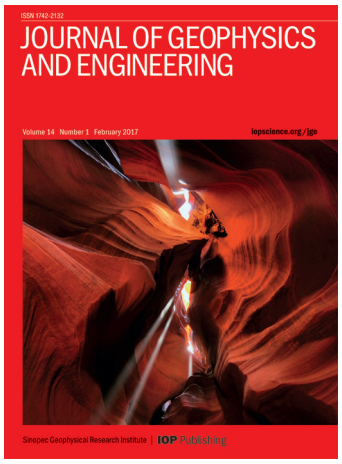
- early universe: inflationary cosmology, the origin of the cosmic asymmetry between matter and antimatter, Big Bang nucleosynthesis, cosmic microwave background
- large-scale structure of the universe
- dark matter and dark energy: the nature of dark matter and its detection, vacuum energy and quintessence
- neutrino physics and astronomy
- gravitational waves
- particle and nuclear astrophysics
- black holes and their impact on cosmology
- gamma-ray astrophysics
- string theory and cosmology

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

Scientists working in particle astrophysics and cosmology – as well as astronomers and physicists working in high-energy and particle physics – will find JCAP an invaluable research tool.

Other journals of interest	
• Classical and Quantum Gravity	p22
• Journal of Physics G: Nuclear and Particle Physics	p45
• New Journal of Physics	p59

Volume	16
Online ISSN	1475-7516
CODEN	JCAPBP
Online archive	2008–2017 available free with journal subscription 2003–2007 available in the IOP Journal Archive



PARTNER

- SINOPEC Geophysical Research Institute

Journal of Geophysics and Engineering

iopscience.org/jge

IMPACT FACTOR 0.994

Editors-in-chief

- YH Wang, Imperial College, London, UK
- SL Qu, SINOPEC Geophysical Research Institute, Nanjing, China

Deputy editor-in-chief

- J Guo, Chinese Geophysical Society, Beijing, China

Journal of Geophysics and Engineering (JGE) is a valuable resource for researchers interested in developments within earth-physics disciplines, with a focus on applied sciences and engineering, including: geodynamics; natural and controlled-source seismology; oil, gas and mineral exploration; petrophysics; and reservoir physics.

The journal also includes contributions from all earth-physics disciplines, from global geophysics to applied and engineering geophysics. JGE was first published in 2004, in partnership with the SINOPEC Geophysical Research Institute based in Nanjing, China.

Other journals of interest

- Environmental Research Letters p25
- Inverse Problems p30
- Journal of Physics D: Applied Physics p44

Volume	15
Frequency	6
Print ISSN	1742-2132
Online ISSN	1742-2140
CODEN	JGEOC3
Online archive	2008–2017 available free with journal subscription 2004–2007 available in the IOP Journal Archive

Journal of Instrumentation

iopscience.org/jinst

ELECTRONIC ONLY

IMPACT FACTOR 1.220

JINST
An IOP and SISSA journal

PARTNER

- International School for Advanced Studies (SISSA)

Scientific director

- Marzio Nessi, CERN, Geneva, Switzerland

Journal of Instrumentation (JINST) is a multidisciplinary, electronic-only journal, created jointly by the International School of 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.

Other journals of interest

- Journal of Physics G: Nuclear and Particle Physics p45
- Measurement Science and Technology p52
- Physics in Medicine & Biology p65

Volume	13
Online ISSN	1748-0221
CODEN	JIONAS
Online archive	2007–2017 available free with journal subscription 2006 available in the IOP Journal Archive

Journal of Micromechanics and Microengineering

IMPACT FACTOR 1.794

iopscience.org/jmm

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.

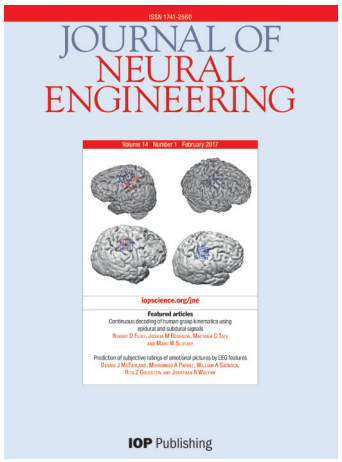
The journal's scope includes original work in microengineering and nanoengineering, spanning the physical, chemical, electrical and biological realms, as well as new fabrication and integration techniques for both silicon and non-silicon materials.

The fastest peer review in its sector combined with its rejection rate of 60% makes JMM a key resource for:

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

Other journals of interest	
• Journal of Physics D: Applied Physics	p44
• Measurement Science and Technology	p52
• Nanotechnology	p58
• Smart Materials and Structures	p80

Volume	28
Frequency	12
Print ISSN	0960-1317
Online ISSN	1361-6439
CODEN	JMMIEZ
Online archive	2008–2017 available free with journal subscription 1991–2007 available in the IOP Journal Archive



Journal of Neural Engineering

iopscience.org/jne

IMPACT FACTOR
3.465

Editors-in-chief

- D M Durand, Case Western Reserve University, OH, USA
- A B Schwartz, University of Pittsburgh, PA, USA

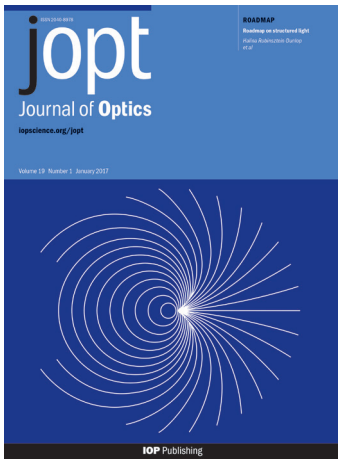
Researchers working in biomedical engineering, neuroscience, neurobiology and neurology will find this journal an essential point of reference. The scope of *Journal of Neural Engineering*™ (JNE) encompasses experimental, computational, theoretical, clinical and applied aspects of topics such as:

- brain–machine (computer) interfaces
- neuromodulation
- neural prostheses
- 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.

Other journals of interest	
• Bioinspiration & Biomimetics	p16
• Biomedical Materials	p17
• Physiological Measurement	p67

Volume	15
Frequency	6
Print ISSN	1741-2560
Online ISSN	1741-2552
CODEN	JNEIEZ
Online archive	2008–2017 available free with journal subscription 2004–2007 available in the IOP Journal Archive



Journal of Optics

iopscience.org/jopt

IMPACT FACTOR
1.741

Editor-in-chief

- N I Zheludev, University of Southampton, UK, and Nanyang Technological University, Singapore

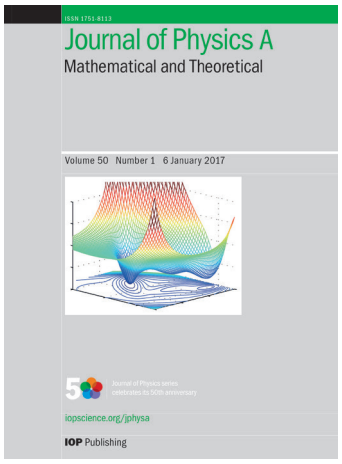
Journal of Optics™ (JOPT) publishes work of relevance to the optics community, including experimental and theoretical research on all aspects of modern and classical optics. JOPT publishes research in 10 key sections; each section is managed by topical editors who are experts in that particular field:

- 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

In addition to regular papers, JOPT publishes a select number of special issues and offers additional article types to meet the needs of its diverse audience. Letters give the community prompt access to research that stands out due to novelty, significance, topicality and timeliness. Topical Reviews, commissioned by the Editorial Board, present a snapshot of recent progress in a particular field, and Roadmaps an outlook on the status, 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.

Other journals of interest	
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Laser Physics	p49
• Laser Physics Letters	p50
• Methods and Applications in Fluorescence	p53
• New Journal of Physics	p59
• Quantum Electronics	p72

Volume	20
Frequency	12
Print ISSN	2040-8978
Online ISSN	2040-8986
CODEN	JOOPCA
Online archive	2008–2017 available free with journal subscription (2003–2009 under the previous name of *Journal of Optics A: Pure and Applied Optics*) 1970–2007 available in the IOP Journal Archive (under previous journal names)



Journal of Physics A: Mathematical and Theoretical

IMPACT FACTOR 1.857

iopscience.org/jphysa

Editor-in-chief

- M R Evans, Edinburgh University, Edinburgh, UK

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
- chaotic and complex systems
- mathematical physics
- quantum mechanics and quantum information theory
- field theory and string theory
- fluid and plasma theory
- biological modelling

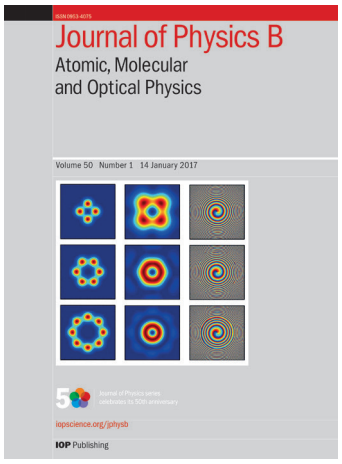
JPhysA rapidly delivers high-quality, significant and original contributions in the arenas of mathematical and theoretical physics to a diverse readership. Outstanding short papers are made available quickly to the research community via the journal's Letters programme.

Readers of JPhysA can also review the article-level metrics, as well as enjoy an enhanced interactive experience through Article Evolution™.

Authors can receive extra promotion of their work through JPhys+, featuring interviews and news items written by the researchers themselves about the key findings of their articles.

Other journals of interest	
• Classical and Quantum Gravity	p22
• Journal of Statistical Mechanics: Theory and Experiment	p48
• Nonlinearity	p60

Volume	51
Frequency	50
Print ISSN	1751-8113
Online ISSN	1751-8121
CODEN	JPHAC5
Online archive	2008–2017 available free with journal subscription 1968–2007 available in the IOP Journal Archive



Journal of Physics B: Atomic, Molecular and Optical Physics

IMPACT FACTOR 1.792

iopscience.org/jphysb

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) has a reputation for publishing quality work for researchers at all stages of their careers in atomic, molecular and optical physics, including:

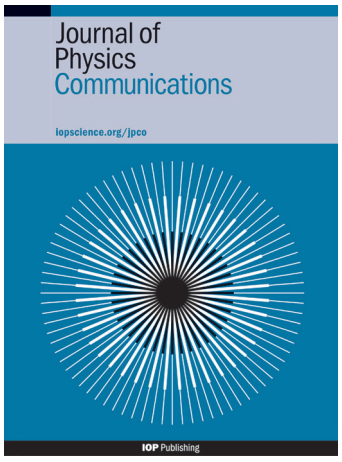
- atomic physics
- molecular and cluster structure, properties and dynamics
- atomic and molecular collisions
- quantum matter
- optical and laser physics
- quantum optics, information and control
- ultrafast, high-field and X-ray physics
- astrophysics and plasma physics

In addition to original research papers, Topical Reviews and Special Issues, JPhysB offers readers a variety of article types to meet the needs of the journal's audience:

- Letters, which are outstanding, concise articles, reporting important, new and timely developments
- Tutorials are based on PhD theses or lecture series – they introduce newcomers to rapidly developing fields where textbooks are still unavailable and allow researchers from related fields to gain insight into developing areas of interest
- Invited Papers are commissioned by the Editorial Board. These articles mix review material with unpublished research and deal with the latest emerging topics, to give readers contextualisation for these rapidly developing subjects
- Viewpoints are short commissioned editorials commenting on high-interest articles published in the journal

Other journals of interest	
• Journal of Optics	p39
• New Journal of Physics	p59
• Physica Scripta	p62
• Reports on Progress in Physics	p74

Volume	51
Frequency	24
Print ISSN	0953-4075
Online ISSN	1361-6455
CODEN	JPAPEH
Online archive	2008–2017 available free with journal subscription 1968–2007 available in the IOP Journal Archive



Journal of Physics Communications

NEW LAUNCH

OPEN ACCESS

ELECTRONIC ONLY

iopscience.org/jpco

Senior advisory panel

Journal of Physics Communications™ is a new 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.

Launched in 2017, *Journal of Physics Communications* publishes high-quality research in all areas of physics. It builds on the strength and prestige of the *Journal of Physics* series, which celebrated 50 years of publishing in 2017. 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.

Other journals of interest

Volume	1
Frequency	12
Online ISSN	2399-6528
CODEN	JPCOFP

Journal of Physics: Condensed Matter

IMPACT FACTOR 2.649

iopscience.org/jpcm

Editor-in-chief

- J S Gardner, National Synchrotron Radiation Research Center, Taiwan, and Australian Nuclear Science and Technology Organisation

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.

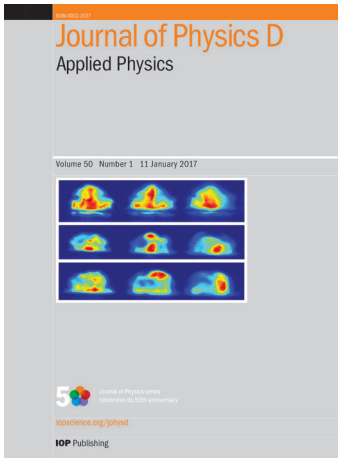
Reporting experimental, theoretical and simulation studies, readers can also access JPCM's authoritative Topical Review programme, Letters and Special Issues in the areas of:

- 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

JPCM offers authors extra promotion of their work through JPhys+; news items accessible to non-experts written by the researchers themselves about the key findings of their article.

Other journals of interest

Volume	30
Frequency	50
Print ISSN	0953-8984
Online ISSN	1361-648X
CODEN	JCOMEL
Online archive	2008–2017 available free with journal subscription 1968–2007 available in the IOP Journal Archive (under previous journal names)



Journal of Physics D: Applied Physics

IMPACT FACTOR 2.588

iopscience.org/jphysd

Editor-in-chief

- J R Morante, Institut de Recerca en Energia de Catalunya, Spain

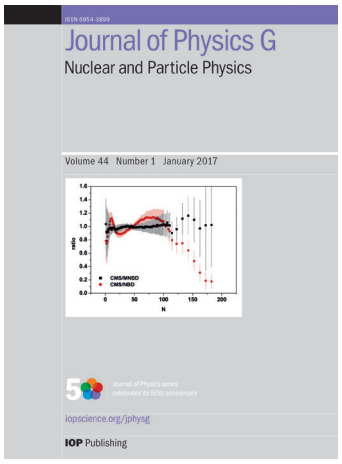
Receiving more than one million downloads every year, *Journal of Physics D: Applied Physics*™ (JPhysD) reports cutting-edge multidisciplinary research across all areas of applied physics and the transition of those findings into new and innovative technologies. Researchers can access a mix of regular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

- applied magnetism and applied magnetic materials
- semiconductors and photonics materials and device physics
- low-temperature plasmas and plasma-surface interactions
- condensed matter, interfaces and related nanostructures
- biological applications of physics
- physics of renewable energy and sustainability

The journal offers even more high-quality research, reviews and Special Issues. JPhysD is recommended as a key resource for researchers working in physics, chemistry, materials, engineering and biophysics.

Other journals of interest

Volume	51
Frequency	50
Print ISSN	0022-3727
Online ISSN	1361-6463
CODEN	JPAPBE
Online archive	2008–2017 available free with journal subscription 1950–2007 available in the IOP Journal Archive



Journal of Physics G: Nuclear and Particle Physics

IMPACT FACTOR 2.899

iopscience.org/jphysg

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:

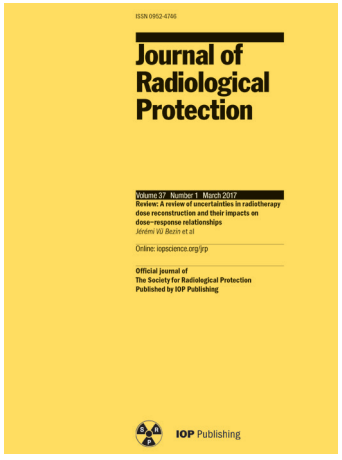
- theoretical and experimental topics in the physics of elementary particles and fields
- intermediate-energy physics and nuclear physics
- experimental and theoretical research in particle, neutrino and nuclear astrophysics
- research arising from all interface areas among these fields

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

Other journals of interest	
• Classical and Quantum Gravity	p22
• Journal of Cosmology and Astroparticle Physics	p34
• Journal of Physics A: Mathematical and Theoretical	p40
• New Journal of Physics	p59

Volume	45
Frequency	12
Print ISSN	0954-3899
Online ISSN	1361-6471
CODEN	JPGPED
Online archive	2008–2017 available free with journal subscription 1975–2007 available in the IOP Journal Archive



PARTNER

- The Society for Radiological Protection

Journal of Radiological Protection

IMPACT FACTOR 1.657

iopscience.org/jrp

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.

Other journals of interest	
• Physics in Medicine & Biology	p65
• Physiological Measurement	p67

Volume	38
Frequency	4
Print ISSN	0952-4746
Online ISSN	1361-6498
CODEN	JRPREA
Online archive	2008–2017 available free with journal subscription 1981–2007 available in the IOP Journal Archive

PARTNERS

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

Journal of Semiconductors

iopscience.org/jos

Editor-in-chief

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

Journal of Semiconductors (JOS), published jointly by the Chinese Institute of Electronics and the Institute of Semiconductors, Chinese Academy of Sciences, covers the latest achievements and developments in semiconductor physics, materials, devices, circuits and related technology.

Managed by an advisory committee and an Editorial Board, the journal's broad scope includes the following areas at the forefront of semiconductor physics research:

- 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, materials, electronics and engineering.

Other journals of interest	
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Semiconductor Science and Technology	p79

Volume	39
Frequency	12
Print ISSN	1674-4926
Online ISSN	2058-6140
CODEN	JSOEB4
Online archive	2009–2017 available free with journal subscription

Journal of Statistical Mechanics: Theory and Experiment

ELECTRONIC ONLY

IMPACT FACTOR 2.196

iopscience.org/jstat

JSTAT
An IOP and SISSA journal

PARTNER

- International School for Advanced Studies (SISSA)

Journal of Statistical Mechanics: Theory and Experiment (JSTAT) is published in partnership with the International School for Advanced Studies (SISSA), and offers fast publication and comprehensive coverage of theoretical and experimental research in the field of statistical physics.

JSTAT's online-only nature allows for all articles to include large data sets, tables and figures, as well as videos and other supplementary data.

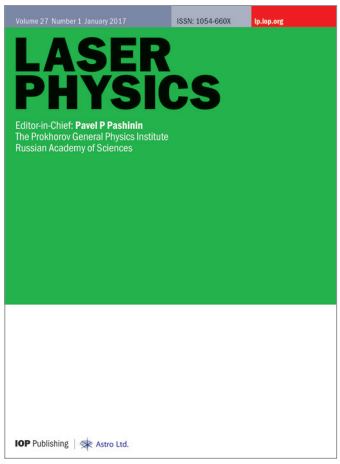
JSTAT is an essential source of information for those working in mathematics or physics departments, or for any group working on applications of statistical physics. Its scope includes:

- exact results
- quantum mechanics and quantum field theory
- phase transitions and critical phenomena
- non-equilibrium processes
- fluids, instabilities, turbulence, reaction dynamics, soft and granular matter
- surfaces, interfaces, growth processes
- disordered systems and glassy matter
- statistical mechanics of complex materials
- interface between biology and physics
- information theory, combinatorial optimisation, graphs and networks
- collective phenomena in economic and social systems

Other journals of interest

• Fluid Dynamics Research	p29
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics: Condensed Matter	p43

Volume	15	Online ISSN	1742-5468
Frequency	12	CODEN	JSMTC6
Online archive	2008–2017 available free with journal subscription 2004–2007 available in the IOP Journal Archive		



PARTNER

- Astro Ltd.

Astro Ltd.

Laser Physics

iopscience.org/lp

IMPACT FACTOR 1.328

Editor-in-chief

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

Laser Physics (LP) is a monthly international journal offering a comprehensive view of theoretical and experimental laser research and applications. The journal was founded in 1990 on the initiative of Alexander M Prokhorov, Nobel laureate and a pioneer of laser physics. The journal thrives under the direction of an esteemed Editor-in-chief and Editorial Board, including three Nobel laureates in physics.

Articles report on every aspect of modern laser physics and quantum electronics, covering topics in interdisciplinary areas, including:

- physics of lasers
- fibre optics and fibre lasers
- quantum optics and quantum information science
- ultrafast optics and strong-field physics
- nonlinear optics
- physics of cold trapped atoms
- laser methods in chemistry, biology, medicine and ecology
- laser spectroscopy
- novel laser materials and lasers
- optics of nanomaterials
- 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.

Other journals of interest	
• Journal of Optics	p39
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Laser Physics Letters	p50
• Quantum Electronics	p72

Volume	28
Frequency	12
Print ISSN	1054-660X
Online ISSN	1555-6611
CODEN	LAPHEJ
Online archive	2013–2017 available free with journal subscription Details on the LP archive (1991–2012) are available at **www.lasphys.com/lasphys**

PARTNER

- Astro Ltd.

Astro Ltd.

Laser Physics Letters

iopscience.org/lpl

IMPACT FACTOR 2.537

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.

Other journals of interest	
• Journal of Optics	p39
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Laser Physics	p49
• Quantum Electronics	p72

Volume	15
Frequency	12
Print ISSN	1612-2011
Online ISSN	1612-202X
CODEN	LPLABC
Online archive	2008–2017 available free with journal subscription 2004–2007 available in the IOP Journal Archive

Materials Research Express

iopscience.org/mrx

ELECTRONIC ONLY

IMPACT FACTOR 1.068

Editor-in-chief

- M Meyyappan, NASA Ames Research Center, CA, USA

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

MRX keeps all materials scientists up to date with the latest developments across this important discipline, and will consider papers on the following topics and classes of materials:

- 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

Other journals of interest	
• 2D Materials	p10
• Journal of Physics D: Applied Physics	p44
• Nanotechnology	p58
• Translational Materials Research	p83

Volume	5
Frequency	12
Online ISSN	2053-1591
CODEN	MREAC3
Online archive	2014–2017 available free with journal subscription

Measurement Science and Technology

IMPACT FACTOR 1.585

iopscience.org/mst

Editor-in-chief

- Kenneth Christensen, University of Notre Dame, ID, USA

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

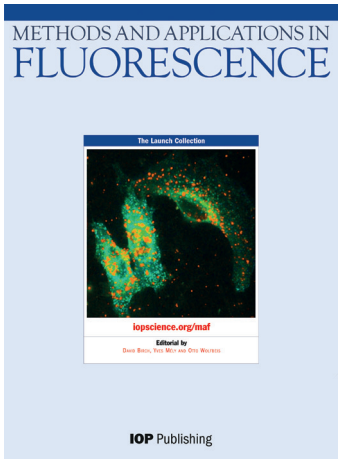
Measurement Science and Technology™ (MST) covers all aspects of the theory, practice and application of measurement and sensor technology across the sciences:

- 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.

Other journals of interest	
• Fluid Dynamics Research	p29
• Journal of Micromechanics and Microengineering	p37
• Journal of Optics	p39
• Journal of Physics D: Applied Physics	p44
• Metrologia	p54
• Physiological Measurement	p67
• Smart Materials and Structures	p80
• Surface Topography: Metrology and Properties	p82

Volume	29
Frequency	12
Print ISSN	0957-0233
Online ISSN	1361-6501
CODEN	MSTCEP
Online archive	2008–2017 available free with journal subscription 1923–2007 available in the IOP Journal Archive



Methods and Applications in Fluorescence

ELECTRONIC ONLY

IMPACT FACTOR 2.656

iopscience.org/maf

Editors-in-chief

- Y Mely, Université de Strasbourg, France
- D Birch, University of Strathclyde, UK
- O S Wolfbeis, Universität Regensburg, Germany

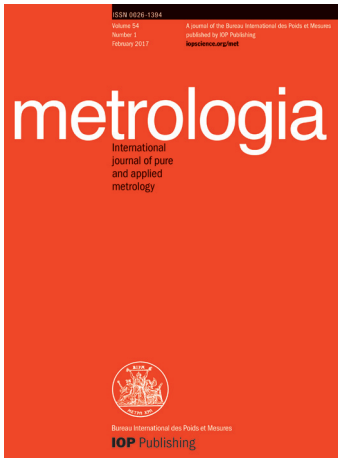
Methods and Applications in Fluorescence™ (MAF) is a multidisciplinary journal that appeals to chemists, biologists and physicists working with fluorescence or developing new optical techniques in the life sciences. As well as review articles, the journal publishes original research articles and technical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

Other journals of interest	
• Journal of Optics	p39
• Physical Biology	p63

Volume	6
Frequency	4
Online ISSN	2050-6120
CODEN	MAFEB2
Online archive	2013–2017 available free with journal subscription



PARTNER

- Bureau International des Poids et Mesures

Metrologia

iopscience.org/met

IMPACT FACTOR 3.411

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) (metre, kilogramme, second, ampere, kelvin, candela, mole) or proposals to replace them.

MET readers can also find articles that contribute to the accuracy of derived units, or of constants that have a fundamental importance in physics – such as Planck's constant or the gyromagnetic ratio of the proton – 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.

MET subscribers also have access to the journal's Technical Supplement, an electronic-only publication. An abstract for each article is provided, which contains a link to the full report in PDF format. The full report of the text forms part of the Key Comparison Database (KCDB) held on the BIPM website, **kcdb.bipm.org**.

Other journals of interest	
• Measurement Science and Technology	p52
• Physiological Measurement	p67
• Surface Topography: Metrology and Properties	p82

Volume	55
Frequency	6
Print ISSN	0026-1394
Online ISSN	1681-7575
CODEN	MTRGAU
Online archive	2008–2017 available free with journal subscription 1965–2007 available in the IOP Journal Archive

Modelling and Simulation in Materials Science and Engineering

IMPACT FACTOR 1.891

iopscience.org/msmse

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

Since the first volume was published in 1993, MSMSE has seen a continual increase in readership. This is reflected by the growth in downloads, which increased by more than 24% in 2016 to nearly 150,000 per year.

In 2017, MSMSE celebrated its 25th anniversary with the publication of special content from the journal's top authors and editors, in addition to providing Special Issues and Topical Reviews relevant for researchers who use modelling and simulation, as well as the broader materials science community.

Other journals of interest	
• IOP Conference Series: Materials Science and Engineering	p84
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Smart Materials and Structures	p80

Volume	26
Frequency	8
Print ISSN	0965-0393
Online ISSN	1361-651X
CODEN	MSMSEEU
Online archive	2008–2017 available free with journal subscription 1992–2007 available in the IOP Journal Archive

Multifunctional Materials

iopscience.org/mfm

NEW LAUNCH

ELECTRONIC ONLY

Editors-in-chief

- Andreas Lendlein, Helmholtz-Zentrum Geesthacht, Teltow, Germany
- Richard Trask, University of Bath, 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, as well as industry. Broad areas of specific interest include:

- 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, multiscale modelling, and computational materials engineering
- applications of functional multi-materials

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 which make a significant advance to the field, MFM will also publish invited-only Topical Reviews on themes of particular current interest to the community.

Other journals of interest	
• Biofabrication	p15
• Biomedical Materials	p17
• Materials Research Express	p51
• Smart Materials and Structures	p80

Volume	1
Frequency	4
Online ISSN	2399-7532
CODEN	MMUABD

Nano Futures

nano-futures.org

NEW LAUNCH

ELECTRONIC ONLY

Editor-in-chief

- M Reed, Yale University, CT, USA

Nano Futures™ is dedicated to bringing together the latest and most important results and perspectives from across nanoscience and related technologies. Highly selective, the journal's primary aim is to become the home for high-urgency work that will define the future direction of new and emerging fields across nanoscience, with the expectation for lasting scientific and technological impact. The Editorial Board anticipate that only a small proportion of submissions to *Nano Futures* will meet these high standards and the number of published articles will therefore be limited. This is certainly a challenging ambition but one we feel that the rapidly growing nanoscience community is looking for, and one that together we can achieve.

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 field that now brings together researchers from across physics, chemistry, biomedicine, materials science, engineering and industry, *Nano Futures* also publishes forward-looking Perspectives and specially commissioned "Roadmap" articles on themes of particular current interest to the broader nanoscience community.

Other journals of interest

- 2D Materials p10
- Applied Physics Express p12
- Japanese Journal of Applied Physics p32
- Journal of Micromechanics and Microengineering p37
- Journal of Physics: Condensed Matter p43
- Journal of Physics D: Applied Physics p44
- Materials Research Express p51
- Measurement Science and Technology p52
- Nanotechnology p58
- Translational Materials Research p83

Volume	1
Frequency	4
Online ISSN	2399-1984
CODEN	NFAUB3

Nanotechnology

iopscience.org/nano

IMPACT FACTOR 3.440

Editor-in-chief

- M Reed, Yale University, CT, USA

Nanotechnology™ (NANO) was launched in 1990 as the first journal dedicated to providing 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

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.

Other journals of interest

Volume	29
Frequency	50
Print ISSN	0957-4484
Online ISSN	1361-6528
CODEN	NNOTER
Online archive	2008–2017 available free with journal subscription 1990–2007 available in the IOP Journal Archive

PARTNERS

- Deutsche Physikalische Gesellschaft
- Institute of Physics

Deutsche Physikalische Gesellschaft DPG

IOP Institute of Physics

New Journal of Physics

www.njp.org

OPEN ACCESS

ELECTRONIC ONLY

IMPACT FACTOR 3.786

Editor-in-chief

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

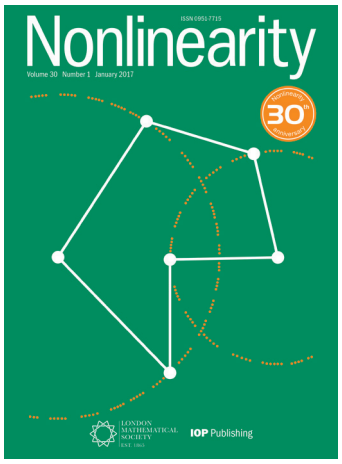
Co-owned by the Institute of Physics and Deutsche Physikalische Gesellschaft, *New Journal of Physics* (NJP) was the first open access journal to publish original research across all areas of physics and continues to be a leader in publishing articles of outstanding scientific quality that merit the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

- quantum physics (including quantum information)
- atomic and molecular physics
- optics
- condensed matter
- surface science
- nanoscale science
- photonics and device physics
- 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

NJP is committed to serving the entire physics community. The journal encourages authors to write their articles in a style that makes them accessible to the non-specialist. Authors can opt to publish a Video Abstract, making it easy to truly engage with the content. NJP recently introduced Fast Track Communications™, ensuring that the most important and cutting-edge research reaches readers quickly.

Other journals of interest	
• Environmental Research Letters	p25
• EPL	p26
• Journal of Physics: Conference Series	p84
• Physica Scripta	p62
• Reports on Progress in Physics	p74

Volume	20
Online ISSN	1367-2630
CODEN	NJOPFM
Online archive	1998–2017 freely available to all at **www.njp.org**



PARTNER

- London Mathematical Society

Nonlinearity

iopscience.org/non

30th ANNIVERSARY

IMPACT FACTOR 1.767

Editors-in-chief

- E Knobloch, University of California, Berkeley, USA
- C Liverani, Università di Roma 'Tor Vergata', Italy

Celebrating its 30th anniversary in 2018, *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.

Other journals of interest	
• Inverse Problems	p30
• Journal of Physics A: Mathematical and Theoretical	p40
• Russian Mathematical Surveys	p77

Volume	31
Frequency	12
Print ISSN	0951-7715
Online ISSN	1361-6544
CODEN	NONLE5
Online archive	2008–2017 available free with journal subscription 1988–2007 available in the IOP Journal Archive

Nuclear Fusion

iopscience.org/nf

IMPACT FACTOR 3.307

PARTNER

- International Atomic Energy Agency (IAEA)

Editor-in-chief

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

Associate editor for Inertial Confinement

- M Tabak, Lawrence Livermore National Laboratory, CA, USA

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.

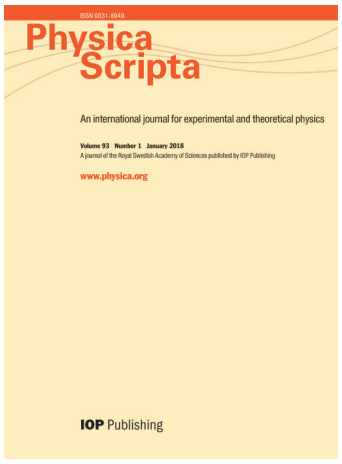
Since 2002, a co-publishing arrangement has been in place that combines the IAEA's peer review and author services with the publishing expertise of IOP Publishing. Today, the journal continues its tradition as a leading voice of the worldwide fusion community while offering the most up-to-date electronic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

Other journals of interest

- Plasma Physics and Controlled Fusion p68
- Plasma Science and Technology p69
- Plasma Sources Science and Technology p70

Volume	58
Frequency	12
Print ISSN	0029-5515
Online ISSN	1741-4326
CODEN	NUFUAU
Online archive	2008–2017 available free with journal subscription 1960–2007 available in the IOP Journal Archive



Physica Scripta

www.physica.org

IMPACT FACTOR 1.280

Editor-in-chief

- S Lidström, The Royal Swedish Academy of Sciences, Stockholm, Sweden

Physica Scripta (PhysScr) is an international journal that provides original research across a broad range of physics and related areas, with a focus on interdisciplinary and cross-disciplinary topics.

PhysScr publishes 12 issues annually and also publishes Invited Comments, which are commissioned by the Editorial Board.

These invited articles describe the current thinking of leading researchers on outstanding problems, and may include discussion of open questions, important new applications, new theoretical and experimental approaches, and/or predictions of future developments. They are intended to bridge gaps in readers' knowledge, be readily understood by experts and students alike, and provide insight into problems, methods and results in different areas of physics.

PhysScr also publishes Focus and Topical Issues that contain selected presentations from international conferences or invited articles on a topic of high current interest, highlighting cutting-edge research across key areas of physics. The annual Novel Physics Symposium is frequently published as a Topical Issue.

Other journals of interest	
• EPL	p26
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Journal of Physics Communications	p42
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• New Journal of Physics	p59

Volume	93
Frequency	12
Print ISSN	0031-8949
Online ISSN	1402-4896
CODEN	PHSCAS
Online archive	2008–2017 available free with journal subscription 1970–2007 available in the IOP Journal Archive

OFFICIAL JOURNAL OF

- Sociedad de Biofísicos Latino Americanos (SOBLA)

Physical Biology

iopscience.org/pb

ELECTRONIC ONLY

IMPACT FACTOR 1.494

Editor-in-chief

- Professor Herbert Levine, Rice University, TX, 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.

Accepting contributions from a wide range of biological subfields, and strongly encouraging articles concerning the generation or explanation of experimental data, PB covers an extensive range of subjects, including:

- intracellular processes, e.g. cytoskeleton dynamics, cellular transport, cell division
- systems biology, e.g. signalling, gene regulation and metabolic networks
- developmental processes
- physical aspects of disease, e.g. cancer progression, viruses, amyloid formation
- neuronal dynamics
- population dynamics, ecology and evolution
- biomolecular structure and interactions, e.g. protein folding, DNA packaging
- cells and their microenvironment, e.g. cell mechanics, chemotaxis, extracellular matrix, biofilms
- novel physical techniques to probe biological systems
- synthetic biology, e.g. reprogramming genetic and metabolic systems

With a focus on novel research and an international board of experts, PB is recommended for individuals and departments based in physics, biology and biomedical sciences, biomedical engineering and bioengineering, and mathematics or biomathematics.

PB is the official journal of Sociedad de Biofísicos Latino Americanos (SOBLA).

Other journals of interest	
• Biomedical Physics & Engineering Express	p18
• Journal of Physics: Condensed Matter	p43
• Nanotechnology	p58
• New Journal of Physics	p59
• Physics in Medicine & Biology	p65

Volume	15
Frequency	6
Online ISSN	1478-3975
CODEN	PBHIAT
Online archive	2008–2017 available free with journal subscription 2004–2007 available in the IOP Journal Archive

Physics Education

iopscience.org/physed

Editor-in-chief

- G 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 the 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 features a video-abstract channel, 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 international advisory panel. 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.

Other journals of interest	
• European Journal of Physics	p27
• Physics–Uspekhi	p66
• Reports on Progress in Physics	p74

Volume	53
Frequency	6
Print ISSN	0031-9120
Online ISSN	1361-6552
CODEN	PHEDA7
Online archive	2008–2017 available free with journal subscription 1966–2007 available in the IOP Journal Archive

PARTNER

- Institute of Physics and Engineering in Medicine

Physics in Medicine & Biology

ELECTRONIC ONLY

IMPACT FACTOR 2.742

iopscience.org/pmb

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:

- all areas of radiotherapy physics
- radiation dosimetry (ionising and non-ionising radiation)
- biomedical imaging (e.g. X-ray, MRI, ultrasound, optical, nuclear medicine)
- image reconstruction and kinetic modelling
- image analysis and computer-aided detection
- other radiation medicine applications
- therapies (including non-ionising radiation)
- biomedical optics
- radiation protection
- radiobiology

The journal has experienced outstanding growth in recent years and continues to build on its excellent reputation.

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.

Other journals of interest	
• Biomedical Physics & Engineering Express	p18
• Inverse Problems	p30
• Journal of Neural Engineering	p38
• Journal of Radiological Protection	p46
• Physiological Measurement	p67

Volume	63
Frequency	24
Online ISSN	1361-6560
CODEN	PHMBA7
Online archive	2008–2017 available free with journal subscription 1956–2007 available in the IOP Journal Archive

PARTNERS

- Turpion
- Uspekhi Fizicheskikh Nauk
- Russian Academy of Sciences

Physics–Uspekhi
(Advances in Physical Sciences)

IMPACT FACTOR 2.301

iopscience.org/phu

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

The flagship journal of the Russian Academy of Sciences, *Physics–Uspekhi (Advances in Physical Sciences)* (PU) is the English translation of the authoritative Russian-language review journal, *Uspekhi Fizicheskikh Nauk*, first published in 1918, which describes and discusses the latest achievements in physics and associated fields.

Papers in PU cover a wide spectrum of the world's scientific research, with particular attention given to 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.

The journal's historic archive provides access to the golden age of Russian science in physics, including research by Nobel laureates, and other leading and pivotal characters in the history and development of Russian science.

Articles published in PU are accessible to established physicists and senior researchers as well as individuals beginning their career in science.

Other journals of interest	
• EPL	p26
• New Journal of Physics	p59
• Reports on Progress in Physics	p74

Volume	61
Frequency	12
Print ISSN	1063-7869
Online ISSN	1468-4780
CODEN	PHUSEY
Online archive	1958–2017 available free with journal subscription 1958–2007 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**

PARTNER

- Institute of Physics and Engineering in Medicine

Physiological Measurement

iopscience.org/pmea

ELECTRONIC ONLY

IMPACT FACTOR 2.058

Editor-in-chief

- J R Moorman, University of Virginia, Charlottesville, 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.

Other journals of interest	
• Journal of Breath Research	p33
• Journal of Neural Engineering	p38
• Measurement Science and Technology	p52
• Physics in Medicine & Biology	p65

Volume	39
Frequency	12
Online ISSN	1361-6579
CODEN	PMEAE3
Online archive	2008–2017 available free with journal subscription 1980–2007 available in the IOP Journal Archive

Plasma Physics and Controlled Fusion

60th ANNIVERSARY

IMPACT FACTOR 2.392

iopscience.org/ppcf

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

Celebrating its 60th anniversary in 2018, *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.

Other journals of interest	
• Nuclear Fusion	p61
• Plasma Science and Technology	p69
• Plasma Sources Science and Technology	p70

Volume	60
Frequency	12
Print ISSN	0741-3335
Online ISSN	1361-6587
CODEN	PLPHBZ
Online archive	2008–2017 available free with journal subscription 1960–2007 available in the IOP Journal Archive

PARTNERS

- Institute of Plasma Physics, Chinese Academy of Sciences
- Chinese Society of Theoretical and Applied Mechanics

Plasma Science and Technology

iopscience.org/pst

IMPACT FACTOR 0.830

Editor-in-chief

- YF Liang, Institute of Energy and Climate Research, Germany

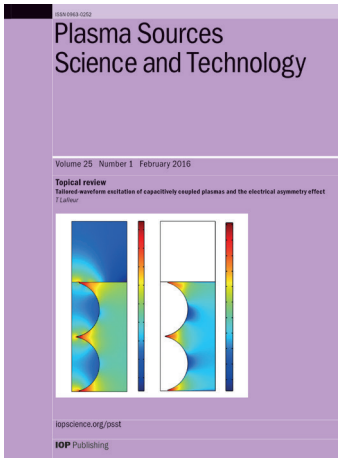
Entering its 19th year of publication, *Plasma Science and Technology* (PST) offers novel experimental and theoretical results in plasma physics to the international research community, highlighting the progress of interdisciplinary and applied aspects of the field. PST publishes research articles, letters, 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:

- basic plasma phenomena
- plasma theory and modelling
- magnetically confined plasma
- inertially confined plasma
- low-temperature plasma
- astrophysics and space plasma
- plasma technology
- fusion engineering
- ion beam bioengineering

Other journals of interest	
• Journal of Physics D: Applied Physics	p44
• Nuclear Fusion	p61
• Plasma Physics and Controlled Fusion	p68
• Plasma Sources Science and Technology	p70

Volume	20
Frequency	12
Print ISSN	1009-0630
Online ISSN	2058-6272
CODEN	PSTHC3
Online archive	2008–2017 available free with journal subscription 1999–2007 available in the IOP Journal Archive



Plasma Sources Science and Technology

ELECTRONIC ONLY

IMPACT FACTOR 3.302

iopscience.org/psst

A multidisciplinary journal containing theoretical, computational and experimental techniques for the study of low-temperature plasmas, *Plasma Sources Science and Technology*™ (PSST) reflects the relevance of low-temperature plasmas for researchers in fields as varied as medical physics, engineering and materials science.

PSST produces a strong programme of Special Issues and Topical Reviews, focusing on the latest developments in the field, with a scope that is relevant for both theory and applications in materials processing and environmental treatment:

- fundamental studies of low-temperature plasmas and ionised gases operating over all ranges of gas pressure and plasma density
- plasma sources and the processes initiated or sustained by them
- theoretical, computational and experimental techniques and data for the study of low-temperature plasmas

PSST offers Letters to its readership – a service that enables prompt publication of high-profile research – so that readers can be confident that they have the most up-to-date papers available in the field.

Additionally, PSST gives readers access to collections of papers based on content that was previously presented as invited talks at international meetings. These articles are subject to the same high standards of peer review as regular journal articles.

Other journals of interest

- Applied Physics Express p12
- Japanese Journal of Applied Physics p32
- Journal of Physics D: Applied Physics p44
- Plasma Physics and Controlled Fusion p68
- Plasma Science and Technology p69

Volume	27	Online ISSN	1361-6595
Frequency	12	CODEN	PSTEEU
Print ISSN	0963-0252		
Online archive	2008–2017 available free with journal subscription 1992–2007 available in the IOP Journal Archive		

PARTNER

- Astronomical Society of the Pacific

Publications of the Astronomical Society of the Pacific

IMPACT FACTOR 4.446

iopscience.org/pasp

Editor-in-chief

- J Mangum, National Radio Astronomy Observatory, VA, USA

Associate editor

- D Fabricant, Harvard-Smithsonian Center for Astrophysics, MA, USA

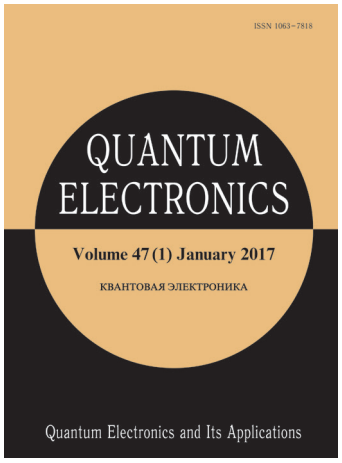
First published in 1889, *Publications of the Astronomical Society of the Pacific* (PASP) was a new addition to the IOP Publishing portfolio in 2016. Published on behalf of the Astronomical Society of the Pacific, the journal offers a unique blend of novel research, timely reviews, special issues, tutorials and other information important to astronomers, astrophysicists and educators.

Managed by 10 editors since its launch, PASP covers the following subject areas:

- astronomy and astrophysics, covering all wavelengths and distance scales
- instrumentation, data analysis and software
- astrophysical calculations, techniques and method tutorials

Other journals of interest	
• The Astronomical Journal	p13
• The Astrophysical Journal	p14
• Chinese Physics C	p20
• Classical and Quantum Gravity	p22
• Journal of Cosmology and Astroparticle Physics	p34
• Reports on Progress in Physics	p74
• Research in Astronomy and Astrophysics	p75

Volume	130
Frequency	12
Print ISSN	0004-6280
Online ISSN	1538-3873
CODEN	PASPAU
Online archive	1889–2017 available free with journal subscription



PARTNERS

- Turpion
- Russian Academy of Sciences

Turpion

Quantum Electronics

iopscience.org/qe

IMPACT FACTOR 1.119

Editor-in-chief

- O N Krokhin, P N Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia

Associate editors

- I B Kovsh, Laser Association, Moscow, Russia
- A S Semenov, P N Lebedev Physical Institute, Russian Academy of Sciences, Moscow, Russia

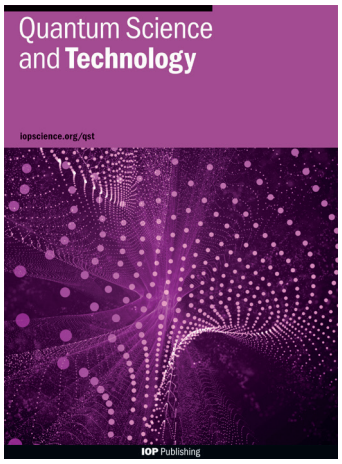
Established alongside the Russian journal *Kvantovaya Elektronika* in 1971, the English translation *Quantum Electronics* (QE) is produced just weeks after each original edition, giving fast access to research from more than 300 world-class Russian institutions and specialists from 25 countries.

QE provides comprehensive results in topics such as quantum electronic devices, laser physics and optics, interaction of laser radiation with matter, and the transmission and processing of information at basic and applied research levels. Special attention is now given to laser nanotechnologies, laser biology and medicine. It is a valuable resource for those working with all aspects of laser research or with the practical application of laser technologies in the metrological, biological and medical fields, or in the electronics, engineering, defence and materials industries. The journal's historic archive provides access to pioneering research in these areas, including research by Nobel laureates, and other leading and pivotal characters in the history and development of Russian science.

With an Editorial Board and council consisting of more than 40 world-class experts, the journal also covers laser plasmas, nonlinear optical phenomena, nanotechnologies, fibre and integrated optics, and active media, and continues to build on the strong foundation established by Nobel Prize laureate Nikolay G Basov.

Other journals of interest

Volume	48	Online ISSN	1468-4799
Frequency	12	CODEN	QUELEZ
Print ISSN	1063-7818		
Online archive	1971–2017 available free with journal subscription 1971–2007 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/qe**		



Quantum Science and Technology

iopscience.org/qst

ELECTRONIC ONLY

Editor-in-chief

- R Thew, University of Geneva, Switzerland

Regional editors

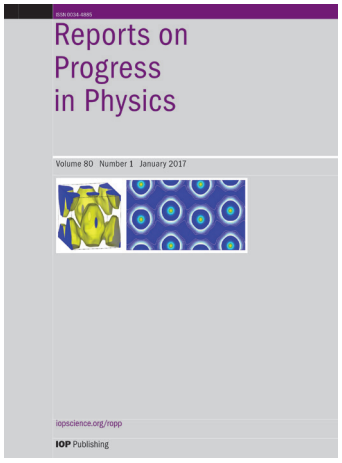
- Masahide Sasaki, National Institute of Information and Communications Technology, Japan
- Thomas Jennewein, University of Waterloo, Canada

Quantum Science and Technology™ (QST) is a single, high-quality publication vehicle for a research area that has evolved from the original confines of quantum theory to become an established and common field of interest. QST bridges aspects of applied mathematics, condensed matter, quantum optics, atomic physics and materials science, and also extends to chemistry, biology, engineering and computer science. Specific topics of interest include:

- quantum cryptography
- quantum metrology
- quantum sensing
- quantum communication
- quantum computation
- quantum biology
- quantum materials
- quantum control
- quantum simulators
- hybrid quantum systems

Other journals of interest	
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Nanotechnology	p58
• New Journal of Physics	p59
• Semiconductor Science and Technology	p79
• Superconductor Science and Technology	p81

Volume	3
Frequency	4
Online ISSN	2058-9565
CODEN	QSTUAH
Online archive	2016–2017 available free with journal subscription



Reports on Progress in Physics

iopscience.org/ropp

IMPACT FACTOR 14.311

Editor-in-chief

- G Baym, University of Illinois at Urbana-Champaign, IL, USA

Deputy editor

- J Onuchic, Rice University, TX, USA

Reports on Progress in Physics™ (ROPP) has a long-established reputation as an essential resource for authoritative review articles covering all branches of physics. Its appeal lies in both the scope of its subject coverage as well as the high quality of the reviews. Guided entirely by its distinguished Editorial Board, ROPP includes content written exclusively by worldwide experts in fields across the entire spectrum of physics.

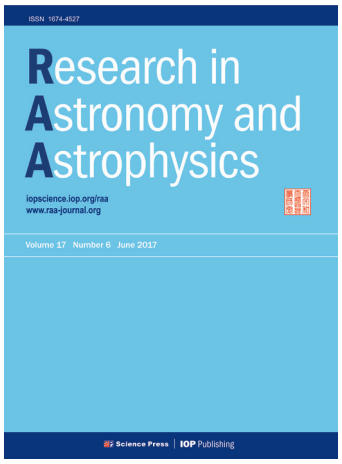
ROPP's prestigious reputation stems not only from its authoritative and highly cited commissioned articles, but also from the emphasis placed on adapting to meet the needs of graduate students, researchers entering new fields and established experts alike.

As part of this evolution and in addition to the review articles for which the journal is known, ROPP has introduced two other article types in recent years to deal with subjects of current or critical interest to researchers:

- **Reports on Progress** articles recount the current status of a rapidly advancing field that holds significant interest but has not yet fully developed, with an emphasis on identifying disagreements whose resolution would lead to progress in the field.
- **Key Issues Reviews** focus on the current compelling questions in physics and identify the critical aspects of growing fields whose significance and goals are undeveloped or disputed.

Other journals of interest	
• Journal of Physics A: Mathematical and Theoretical	p40
• Journal of Physics B: Atomic, Molecular and Optical Physics	p41
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Journal of Physics G: Nuclear and Particle Physics	p45
• New Journal of Physics	p59

Volume	81	Online ISSN	1361-6633
Frequency	12	CODEN	RPPHAG
Print ISSN	0034-4885		
Online archive	2008–2017 available free with journal subscription 1934–2007 available in the IOP Journal Archive		



PARTNERS

- Chinese Astronomical Society
- National Astronomical Observatories, Chinese Academy of Sciences

Research in Astronomy and Astrophysics

IMPACT FACTOR 1.371

iopscience.org/raa

Editors-in-chief

- JX Wang, National Astronomical Observatories, Chinese Academy of Sciences, Beijing, China
- L Gao, National Astronomical Observatories, Chinese Academy of Sciences, Beijing, China

Research in Astronomy and Astrophysics (RAA) is a rapidly developing international journal that publishes top-quality research from astronomers and astrophysicists worldwide.

The journal is published in partnership with the Chinese Astronomical Society and National Astronomical Observatories, Chinese Academy of Sciences.

RAA publishes research papers and invited reviews on all branches of astronomy and astrophysics, especially:

- large-scale structure of universe formation and evolution of galaxies
- high-energy and cataclysmic processes in astrophysics
- formation and evolution of stars
- astrogeodynamics
- solar magnetic activity and heliogeospace environments
- dynamics of celestial bodies in the solar system and artificial bodies
- space observation and exploration
- new astronomical techniques and methods

Other journals of interest	
• The Astronomical Journal	p13
• The Astrophysical Journal	p14
• Journal of Cosmology and Astroparticle Physics	p34
• Publications of the Astronomical Society of the Pacific	p71

Volume	18
Frequency	12
Print ISSN	1674-4527
Online ISSN	2397-6209
CODEN	RAAEBW
Online archive	2008–2017 available free with journal subscription 2001–2007 available in the IOP Journal Archive

PARTNERS

- Turpion
- Russian Academy of Sciences

Turpion | Russian Academy of Sciences

Russian Chemical Reviews

iopscience.org/rcr

IMPACT FACTOR 4.058

Editor-in-chief

- O M Nefedov, Russian Academy of Sciences, Moscow, Russia

Russian Chemical Reviews (RCR) is the English translation of the monthly review journal *Uspekhi Khimii*, one of the leading Russian journals in chemistry, founded in 1932. The journal showcases the advances and achievements of leading chemists from Russia and other countries of the former Soviet Union, in most aspects of modern chemistry:

- chemical physics
- physical chemistry, including catalysis
- mathematical chemistry
- co-ordination chemistry
- analytical chemistry
- organic and organometallic chemistry
- chemistry of macromolecules
- biochemistry, bio-organic chemistry and biomolecular chemistry
- medicinal chemistry
- materials chemistry, nanochemistry, nanostructures
- environmental chemistry

RCR's historic archive provides access to the golden age of Russian science in chemistry and associated fields, including research by Nobel laureates, and other leading and pivotal characters in the history and development of Russian science.

Its combination of expertise and interdisciplinary approach means RCR appeals to scientists at all levels working with chemistry, physical chemistry, chemical physics, materials science, nanochemistry, nanostructures and nanotechnologies.

Other journals of interest

- Journal of Physics B: Atomic, Molecular and Optical Physics p41
- Journal of Physics: Condensed Matter p43
- Nanotechnology p58

Volume	87	Online ISSN	1468-4837
Frequency	12	CODEN	RCRVAB
Print ISSN	0036-021X		
Online archive	1960–2017 available free with journal subscription 1960–2007 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/rcr**		

PARTNERS

- Turpion
- Russian Academy of Sciences
- London Mathematical Society

Russian Mathematical Surveys

iopscience.org/rms

IMPACT FACTOR 1.000

Editor-in-chief

- S P Novikov, Russian Academy of Sciences, Moscow, Russia; University of Maryland, College Park, MD, USA

Deputy editor

- V M Buchstaber, Steklov Mathematical Institute of Russian Academy of Sciences, Moscow, Russia

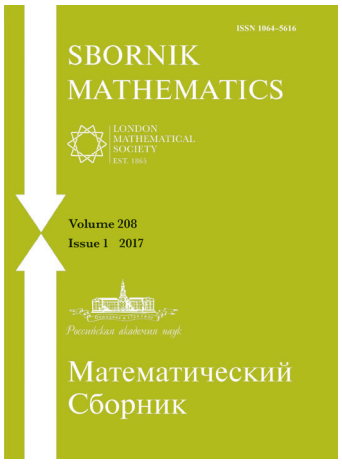
Covering a wide spectrum of mathematics, mechanics and mathematical physics, *Russian Mathematical Surveys* (RMS) is the English translation of the prestigious Russian journal *Uspekhi Matematicheskikh Nauk*, founded in 1936. Since 1998, RMS has been published jointly by Turpion, the London Mathematical Society and the Russian Academy of Sciences.

RMS consists of survey articles on current trends in mathematics, written by leading experts at the request of the Editorial Board, and short communications showcasing the results of new research from the Moscow Mathematical Society. It is also the only journal that publishes a record of mathematical life in Russia and biographical material. Translated into English since 1960, the journal archive provides access to the golden age of Russian mathematics and related fields, featuring research by many Fields Medal-winning authors, as well as other leading figures, both past and present, who have played a pivotal role in the history and development of the Russian math schools.

With a high reputation in the mathematics community, RMS has the highest circulation and usage among Russian mathematical journals. It provides respected and eminent articles for researchers, lecturers, students and postdoc workers working across many branches of pure mathematics and related sciences.

Other journals of interest	
• Izvestiya: Mathematics	p31
• Journal of Physics A: Mathematical and Theoretical	p40
• Nonlinearity	p60
• Sbornik: Mathematics	p78

Volume	73
Frequency	6
Print ISSN	0036-0279
Online ISSN	1468-4829
Online archive	1960–2017 available free with journal subscription 1960–2007 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/rms**



PARTNERS

- Turpion
- Russian Academy of Sciences
- London Mathematical Society

Sbornik: Mathematics

iopscience.org/msb

IMPACT FACTOR 0.721

Editor-in-chief

- B S Kashin, Steklov Mathematical Institute of Russian Academy of Sciences, Moscow, Russia

Deputy editor

- A N Parshin, Steklov Mathematical Institute of Russian Academy of Sciences, Moscow, Russia

Sbornik: Mathematics (SM) is the English translation of the Russian monthly journal *Matematicheskii Sbornik*, founded in 1866. The oldest Russian mathematical journal, SM has been translated into English since 1967, and covers a wide spectrum of areas in pure mathematics, focusing on key developments in mathematical analysis, ordinary differential equations, partial differential equations, mathematical physics, geometry, algebra and functional analysis. Since 1995, SM has been published jointly by Turpion, the London Mathematical Society and the Russian Academy of Sciences. The electronic version of SM is published monthly, while the print issue – which is made up of two issues of *Matematicheskii Sbornik* translated into English – is published bimonthly.

The journal archive provides access to the golden age of Russian mathematics and related fields, featuring research by many Fields Medal-winning authors, as well as other leading figures, both past and present, who have played a pivotal role in the history and development of the Russian math schools.

Publishing only original research papers that contain full results, SM maintains a high reputation in the mathematical community and has seen both its Impact Factor and submission rate rise steadily in recent years. The journal consistently offers eminent, relevant research for students, lecturers, postdocs and researchers across departments such as mechanics, mathematics, theoretical and mathematical physics.

Other journals of interest	
• Izvestiya: Mathematics	p31
• Journal of Physics A: Mathematical and Theoretical	p40
• Nonlinearity	p60
• Russian Mathematical Surveys	p77

Volume	209
Frequency	6
Print ISSN	1064-5616
Online ISSN	1468-4802
Online archive	1967–2017 available free with journal subscription 1967–2007 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/msb**

Semiconductor Science and Technology

IMPACT FACTOR 2.305

iopscience.org/sst

Editor-in-chief

- K Nielsch, Leibniz Institute of Solid State and Materials Research, Germany

Semiconductor Science and Technology™ (SST) focuses exclusively on semiconductor research and its applications. SST is a leader among specialised semiconductor journals; the quality of research published in SST is reflected in its high downloads-per-article rate. The journal has attracted a growing international readership.

SST's scope covers fundamental and applied experimental and theoretical studies of the properties of semiconductors, their interfaces and devices including:

- fundamental properties
- materials and nanostructures
- devices and applications
- fabrication and processing
- emerging fields
  - topological semiconductors
  - layered materials and nanowires
  - semiconductors for energy
  - flexible electronics

SST offers readers a wide range of article types, including a series of Special Issues. Researchers can access the most up-to-date research via Letters – the journal's high-quality, high-profile outlet for new and important research across all areas of semiconductor research. Topical Review articles present the background, recent progress and current state of the art in a particular field, making SST essential reading for scientists at any stage of their career in semiconductor research.

Other journals of interest	
• Applied Physics Express	p12
• Japanese Journal of Applied Physics	p32
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• Nanotechnology	p58

Volume	33
Frequency	12
Print ISSN	0268-1242
Online ISSN	1361-6641
CODEN	SSTEET
Online archive	2008–2017 available free with journal subscription 1986–2007 available in the IOP Journal Archive

Smart Materials and Structures

iopscience.org/sms

IMPACT FACTOR
2.909

Editor-in-chief

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

Smart Materials and Structures™ (SMS) is a multi-disciplinary journal dedicated to technical advances in (and applications of) smart materials, systems and structures; including intelligent systems, sensing and actuation, adaptive structures and active control.

SMS covers the following research areas:

- smart materials development and application – including, but not limited to, shape memory alloys and polymers, electro and magnetorheological materials, piezoelectrics, ferroelectrics, multiferroics, piezomagnetics, electro and magnetostrictive materials, thermoelectrics, photovoltaics, electro and magnetocaloric materials, electrochromics, IPMCs, electroactive polymers, energy-storage materials, self-healing materials and multifunctional materials in general
- smart materials utilised as sensors and actuators with applications at any scale
- adaptive structural systems, actively controlled structures with smart materials and other non-traditional actuators
- sensor and sensor networks for smart materials and structure applications, processing of sensor information for adaptive control or structural health monitoring as well as integration of these sensor networks into materials and structures
- smart optical materials for modification in spectral shifts and refractive index shift
- structural health monitoring with applications to ground vehicles, aircraft and civil infrastructure
- intelligent systems, integrated with sensors, actuators and controllers, applied to automation and robotic systems that utilise smart material systems
- energy harvesting systems including modelling, applications and implementation issues
- smart material systems that utilise biomimetics and bioinspiration
- 3D-printed smart materials and their applications
- smart textiles and wearable technology

Other journals of interest	
• Bioinspiration & Biomimetics	p16
• Journal of Micromechanics and Microengineering	p37
• Measurement Science and Technology	p52
• Nanotechnology	p58

Volume	27
Frequency	12
Print ISSN	0964-1726
Online ISSN	1361-665X
CODEN	SMSTER
Online archive	2008–2017 available free with journal subscription 1992–2007 available in the IOP Journal Archive

Superconductor Science and Technology

IMPACT FACTOR 2.878

iopscience.org/sust

Editor-in-chief

- C Foley, CSIRO, Lindfield, Australia

Superconductor Science and Technology™ (SUST) is the leading journal specialising in superconductivity and its application.

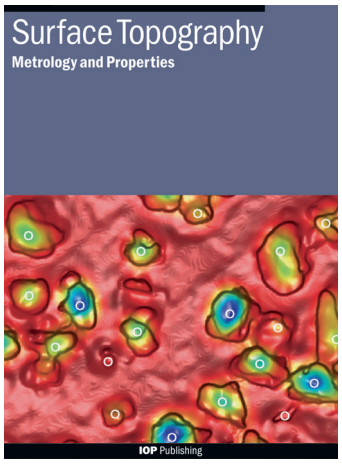
SUST is a truly multidisciplinary journal that provides an essential forum for members of the superconductivity research community and publishes Letters™, Special Issues, Topical Reviews, Roadmap and Viewpoint articles.

SUST's scope includes papers from all areas of superconductivity, including superconducting materials and basic properties, superconducting quantum technology, electronics and other small-scale devices, superconducting wires and tapes, superconducting magnets, accelerators and other large-scale applications.

This international journal publishes high-quality, innovative articles covering the latest developments in superconductivity, ensuring that researchers receive a valuable overview of current research and keep up to date with the latest developments in the field.

Other journals of interest	
• Applied Physics Express	p12
• Japanese Journal of Applied Physics	p32
• Journal of Physics: Condensed Matter	p43
• Journal of Physics D: Applied Physics	p44
• New Journal of Physics	p59
• Quantum Science and Technology	p73
• Reports on Progress in Physics	p74

Volume	31
Frequency	12
Print ISSN	0953-2048
Online ISSN	1361-6668
CODEN	SUSTEF
Online archive	2008–2017 available free with journal subscription 1988–2007 available in the IOP Journal Archive



Surface Topography: Metrology and Properties

ELECTRONIC ONLY

iopscience.org/stmp

Editor-in-chief

- R Wood, University of Southampton, UK

Surface Topography: Metrology and Properties™ (STMP) publishes the latest physics, chemistry, materials science and engineering research on applied, functional surfaces.

Topics covered include:

- engineered surfaces
- interface science/science at the interface
- coatings
- surface texturing and surface treatments
- structured surfaces for friction and wear control
- tribology
- surface topography in fracture and failure analysis/surface fatigue
- deformation and strain
- biomimetic surfaces
- bioadhesion
- fluid flow, wettability and adhesion
- superhydrophobic surfaces
- tomography AFM/SPM
- optical techniques for surface characterisation
- super resolution imaging of surfaces
- high dynamic-range measurement
- in-line/in-process measurement
- surface appearance and perception engineering
- surface chemistry and reactions at the interface
- surface, micro- and nanometrology

Other journals of interest	
• Journal of Micromechanics and Microengineering	p37
• Journal of Physics D: Applied Physics	p44
• Materials Research Express	p51
• Measurement Science and Technology	p52
• Metrologia	p54

Volume	6
Frequency	4
Online ISSN	2051-672X
CODEN	STMPCW
Online archive	2013–2017 available free with journal subscription

Translational Materials Research

iopscience.org/tmr

ELECTRONIC ONLY

Editor-in-chief

- G Grüner, University of California, Los Angeles, USA

Bridging the gap between basic research and industrial-scale application, *Translational Materials Research*™ (TMR) features both peer-reviewed content and industry opinion on the steps needed to translate breakthroughs in advanced materials research into commercial technologies, products and applications.

TMR takes a cross-disciplinary view across all areas of materials research (including physics, chemistry, biology, materials science and engineering) and covers all stages of the materials innovation chain, from discovery and invention through to product development and manufacturing.

With contributions from all key stakeholders in the translation process, including researchers and engineers representing academia and industry, funders, policymakers, IP experts and business leaders, readers can gain valuable insight into proven strategies for success.

TMR publishes content in two sections:

Discovery, invention and application – focusing on materials discoveries and technologies with clear commercial potential, this section addresses practical issues for real-world applications. Themes include materials and devices for next-generation technologies; scalability, reliability, lifetime issues, product development issues; and novel fabrication technologies.

Policy, funding and business strategy – focusing on turning promising inventions into commercial success, this section highlights best practice and enables effective knowledge sharing on themes such as product and business development, innovation policy, funding and investment, intellectual property and the infrastructure supporting translation.

Other journals of interest	
• 2D Materials	p10
• Journal of Physics D: Applied Physics	p44
• Materials Research Express	p51
• Nanotechnology	p58

Volume	5
Frequency	4
Online ISSN	2053-1591
CODEN	TMRB0
Online archive	2014–2017 available free with journal subscription

IOP Conference Series

Proceedings services for science

OPEN ACCESS

conferenceseries.iop.org

Proceedings are an important part of the scientific record, documenting and preserving work presented at conferences worldwide. *IOP Conference Series*™ offers a fast, efficient and cost-effective proceedings service.

Visibility

Papers are widely indexed and *IOP Conference Series* receives more than **3.5 million** article downloads per year.

Rapid publication

Proceedings are published within four to six weeks after IOP Publishing receives the accepted articles.

Flexible publication

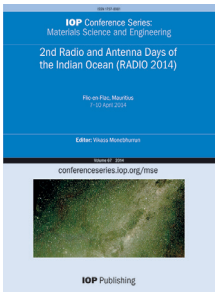
From plenary to poster papers, large or small events, core physics to multidisciplinary, we can accommodate all.

IOP Proceeding Licence

Authors retain copyright. No forms for organisers to administer, substantially reducing their workload.

Conference promotion

For selected events, we can provide highly targeted promotion at no extra cost.



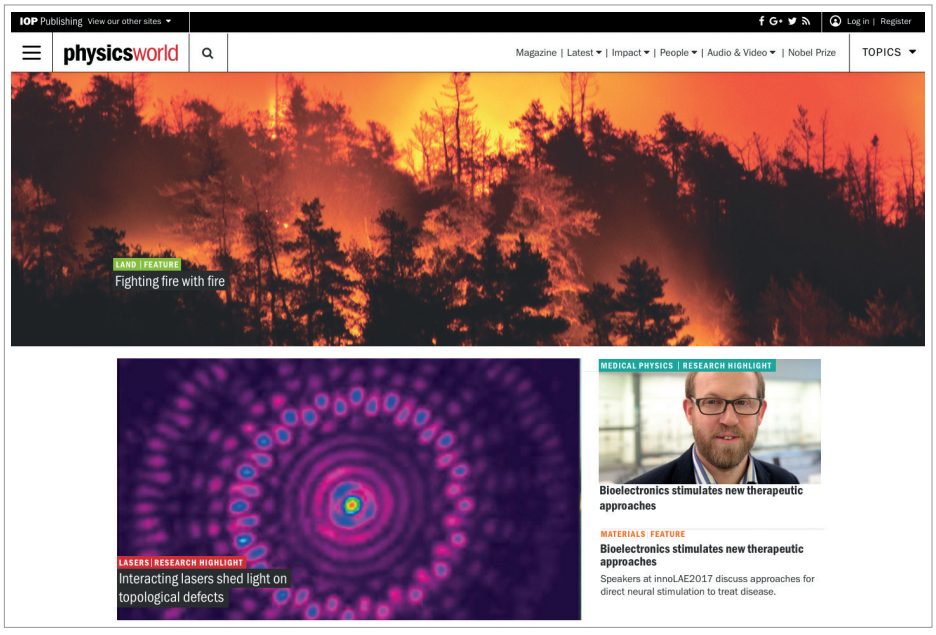
Visit **conferenceseries.iop.org** for details of publishing options, our real-time quote service and much more

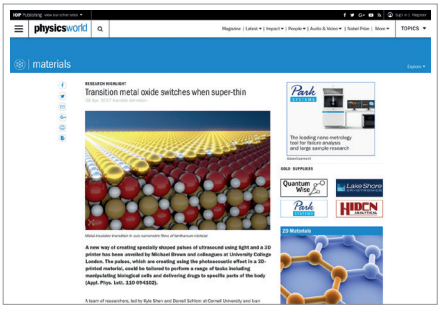
IOP websites

Physics World

physicsworld.com

Redesigned and reimagined, *Physics World*® is intended to be the number-one science news service, helping scientists working in academic and industrial research stay up to date with the latest breakthroughs in physics and interdisciplinary science. We provide an international readership with a unique mix of daily news, opinion and analysis from an award-winning team of science writers and editors. *Physics World* is a significant reinvestment in science and our mission to communicate world-class research and innovation to the widest possible audience.





Trust

- Our staff combine deep scientific knowledge with a passion for uncovering and communicating the stories that really matter
- Leading voices are brought together from across science to deliver coverage that's accurate, balanced and thought-provoking
- Complex scientific ideas are communicated with clarity and flair

Connection

Reflecting the increasingly cross-disciplinary and international nature of scientific research, *Physics World* now includes coverage from across disciplines, including materials science, biosciences, environmental sciences, astronomy and astrophysics, and interdisciplinary sciences. We seek to inform, educate and connect a global scientific readership.

Impact

Physics World caters for audiences across borders and disciplines, helping scientists to promote themselves, their teams and their research to researchers around the world.

Engagement

We provide training and mentorship for early career scientists. We support their careers and develop the next generation of science communicators through our contributor networks.

Launching September 2017, visit **physicsworld.com**, the number-one destination for science news, opinion and analysis.

IOP websites

Physics Connect

connect.physicsworld.com

Physics Connect offers the latest white papers, news, videos, expertise and case studies from thousands of commercial suppliers and research institutes worldwide.

Find products, services and expertise
Looking for a supplier? *Physics Connect* lists thousands of scientific companies, businesses, non-profit organisations, institutions and experts worldwide.

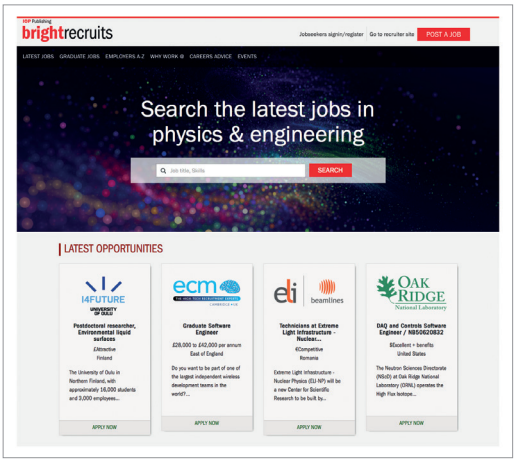
Get your business noticed
Physics Connect offers a number of powerful tools to enhance your online presence and to support your marketing strategy.

Free listings for institutions and research centres
For research institutions that offer access to specialist equipment or expertise, *Physics Connect* facilitates interaction between academia and industry.

Get started with a free listing today at **connect.physicsworld.com/get-listed**.

Did you know?
More than **80** institutions and researchers have already created a profile to promote their research

Did you know?
Nearly **1000** businesses use *Physics Connect* to promote their latest product launches and collaborations



brightrecruits

brightrecruits.com

The online jobsboard for international jobs and courses in physics and engineering. Jobseekers can find some of the most sought-after roles with leading employers, including Fermilab, Siemens, MIT and CERN.

brightrecruits™ is a recruitment service that connects employers from different industry sectors with jobseekers who have a background in physics and engineering.

Published by IOP Publishing, an integral part of the Institute of Physics, **brightrecruits** highlights the many different career opportunities available to physics graduates.

brightrecruits provides comprehensive job listings and recruiter information, and a powerful search tool for finding relevant job vacancies. At all stages of your career – whether you're an undergraduate, graduate, researcher or industry professional – we can help find the right job for you.

Did you know?
Set your search preferences and get only the most relevant jobs sent to your inbox as and when they arrive

Did you know?
More than **21,000** jobseekers are already registered

IOP magazines

With physics changing at such a rapid pace, Physics World *is the perfect way for you to stay on top, thanks to its timely, accessible and thought-provoking articles from the world's leading physicists and science writers.*

Matin Durrani, editor

Physics World

physicsworld.com

Celebrating more than 29 years as the Institute of Physics' membership title, *Physics World*® is widely recognised as the world's must-read physics magazine. Each month more than 100,000 readers enjoy comprehensive news and analysis, in-depth features, incisive opinion pieces, sound careers advice, and reviews of the best new books and multimedia.

Volume	31
Frequency	12
Print ISSN	0953-8585
Online ISSN	2058-7058
CODEN	SUSTEF
Online archive	2008–2017 available free with journal subscription 1950–2007 available in the IOP Journal Archive (1950–1988 under the previous name of *Physics Bulletin*)

IOP magazines

CERN Courier

cerncourier.com

CERN is undisputedly the hub of a global community of scientists advancing the frontiers of knowledge, and for more than 55 years *CERN Courier* has been serving this international community.

This high-energy physics magazine covers international developments in particle physics and the achievements of scientists working in these and related fields. *CERN Courier* is internationally recognised as required reading for the high-energy physics community, and the magazine of choice for any researcher or scientist who needs to keep up to date. Inside each issue you will find the latest research news, authoritative reports and project updates on a range of topics.

Did you know?
CERN Courier has more than **75,000** readers worldwide

Free sample
Visit **cerncourier.com/digital** to read the digital editon

ESRFnews

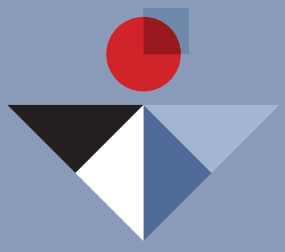
www.esrf.eu/UsersAndScience/Publications/Newsletter

The European Synchrotron Radiation Facility (ESRF), located in Grenoble, France, is a joint facility supported and shared by 21 European countries. It operates the most powerful synchrotron radiation source in Europe.

ESRFnews highlights the latest developments at the ESRF, as well as within the worldwide synchrotron community. It is an invaluable information source read in 57 countries by engineers, scientists and research project managers in a range of research areas and industries.

Free subscription
To view a sample copy and subscribe today, visit
www.esrf.eu/UsersAndScience/Publications/Newsletter

Did you know?
ESRFnews has more than **30,000** readers worldwide



An artistic interpretation of a focused Gaussian beam incident on a graphene-coated polystyrene spherical particle situated on a glass–air interface. **Yang Yang, Xiaofu Zhang, Anping Huang and Zhisong Xiao** 2016 EPL **116** 24006.

IOP Publishing | science first