

2023

**Product
Guide**



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AIP Supports the Community

About AIP Publishing

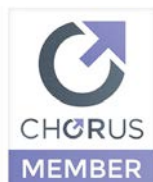
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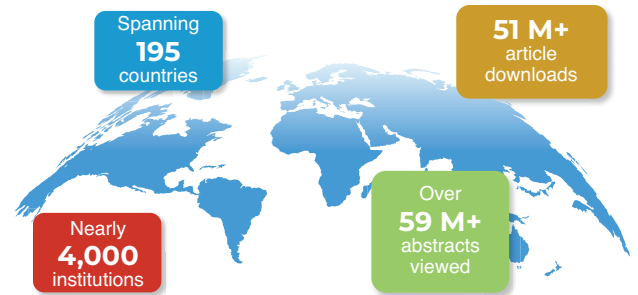
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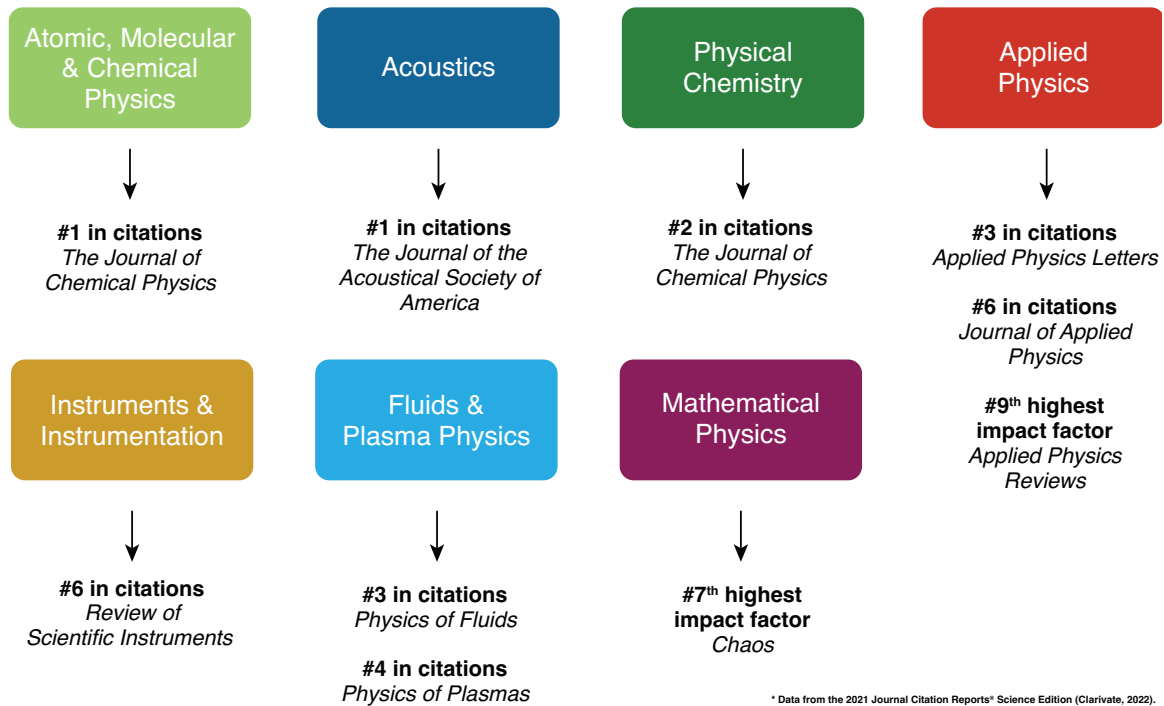
Global Reach and Outstanding Quality

Global Dissemination

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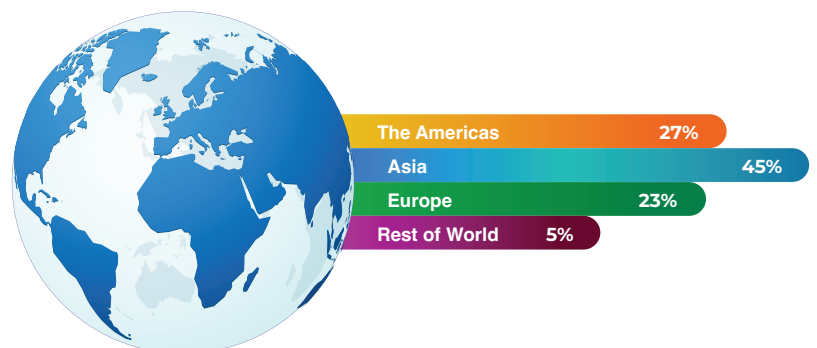


Outstanding Quality



Global Authorship

In 2022, nearly **16,000** articles** were published from a global community of scientists.



** excludes AIP & LIA Conference Proceedings

Access Options

Read & Publish

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- *Biointerphases*
- *JVSTA: Vacuum, Surfaces, and Films*
- *JVSTB: Nanotechnology and Microelectronics*
- *Surface Science Spectra*



Access options:

- Frontfile only (1999-present)
- Frontfile + Backfile (1964-present)

Fluids & Plasma Research Package

Online access to three highly regarded publications for fluids and plasmas researchers dating back to 1929. Access to content is available as Frontfile only (1999-present) or Backfile + Frontfile (1929-present).

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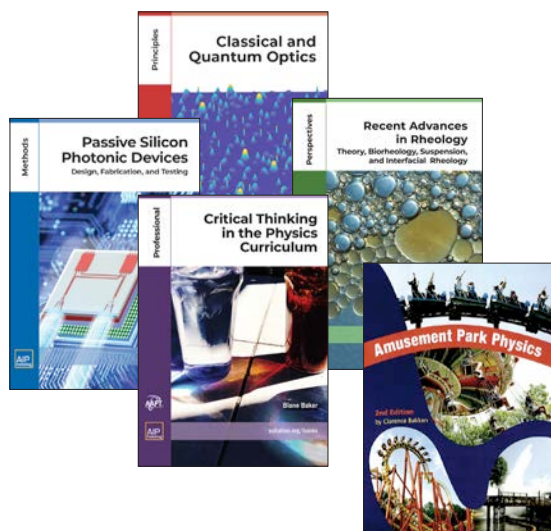
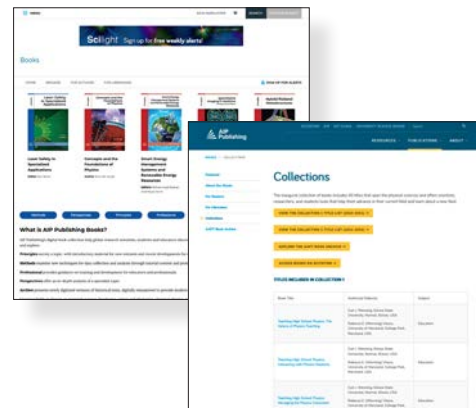
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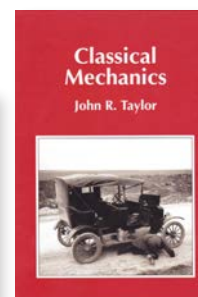
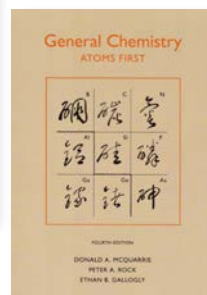
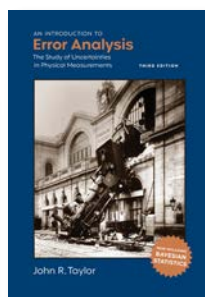
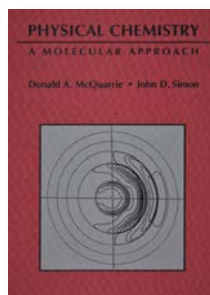
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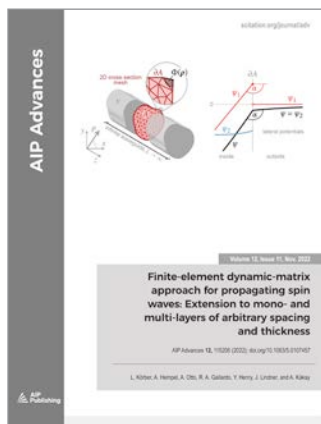
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Coverage:

All areas of applied, theoretical, and experimental physical science research

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Journal Impact Factor: 1.697*
2023: Volume 13, 12 issues
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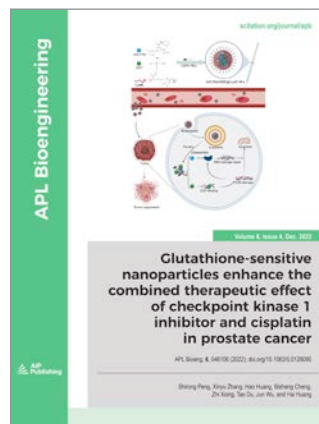


AIP Conference Proceedings contain over 100,000 articles published in more than 2,000 proceedings since its inception in 1970. Each year approximately 100 new volumes (some 10,000 papers) are added to this substantial body of scientific literature. Published conference proceedings are valuable as topical status reports providing quick access to information before it appears in the traditional journal literature. From the early career researcher to the Nobel Prize winning scientist, *AIP Conference Proceedings* is an essential platform to facilitate communication and advances within the scientific research community.

Coverage:

All areas of physical sciences in applied, theoretical, and experimental research

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Editor-in-Chief:

Mónica Lira-Cantú
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2023: Volume 1, 12 issues per year
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E-ISSN: 2770-9000
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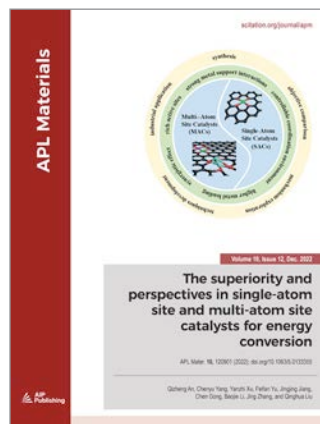


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Coverage: Scientific ML; ML-led accelerated materials discovery and development, physics-aware ML predictive models, Interpretable ML for scientific discovery, data-driven empirical models, neuromorphic materials and systems, unconventional computing using physical substrates, brain-inspired artificial systems, energy efficient AI/ML systems

Editor-in-Chief:
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University College London, UK

2023: Volume 1, 12 issues per year (online only)
E-ISSN: 2770-9019
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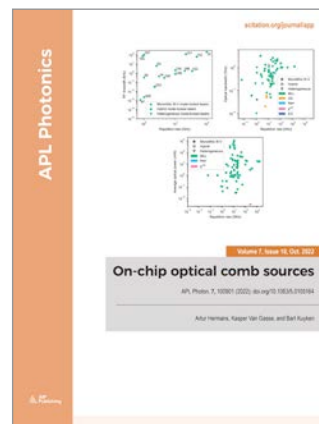


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Editor-in-Chief:
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Beijing Institute of Technology, Beijing, China

Journal Impact Factor: 6.635*
2023: Volume 11, 12 issues (online only)
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Coverage: Light sources; nonlinear optics; optoelectronics; nanophotonics; plasmonics; biophotonics and biomedical optics; ultrafast photonics; optical communications; quantum photonics; optical imaging; photovoltaics; guided wave optics; sensors; terahertz

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University of Sydney, Australia

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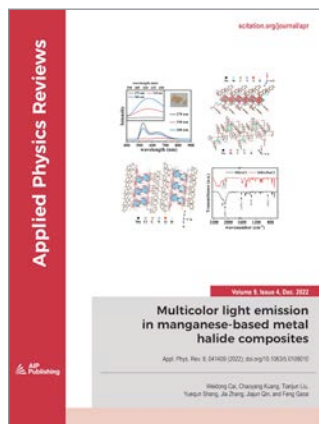
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Blackett Laboratory
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London, UK

Journal Impact Factor: 3.971*

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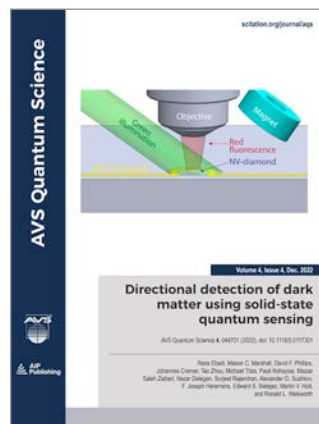
Yujun Wang
AIP Publishing

Editor-in-Chief:

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Canberra, Australia

Journal Impact Factor: 19.527*

2023: Volume 10, 4 issues
(online only)
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Editor-in-Chief:

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2023: Volume 17, 6 issues (online only)
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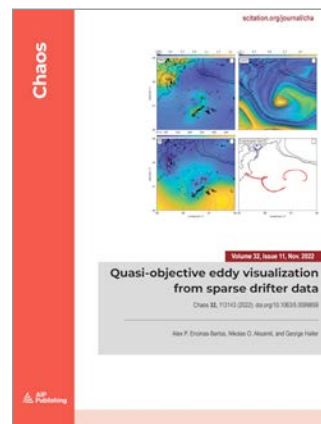
Executive Editor:

Yujun Wang
AIP Publishing

Editor-in-Chief:

Kit Parker
Harvard University, Cambridge, MA, USA

2023: Volume 4, 1 issue (online only) E-ISSN: 2688-4089
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Chaos is devoted to increasing the understanding of nonlinear phenomena and describing the manifestations in a manner comprehensible to researchers from a broad spectrum of disciplines.

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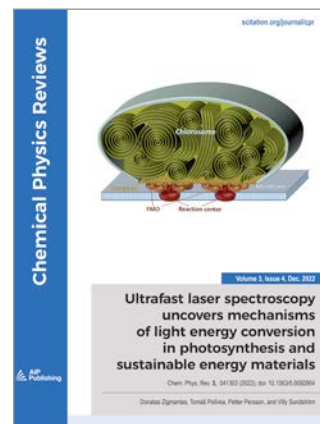
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Potsdam Institute for Climate Impact Research and Humboldt-Universität zu Berlin, Germany

Journal Impact Factor: 3.741*

2023: Volume 33, 4 print issues (12 monthly online issues)
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E-ISSN: 1089-7682
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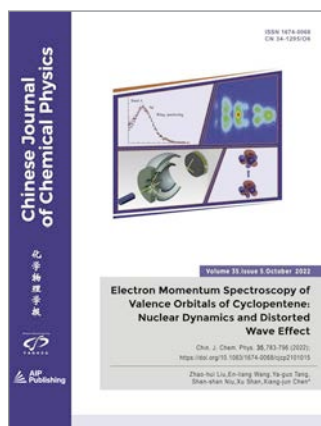
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Editor-in-Chief:

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2023: Volume 4, 1 issue (online only) E-ISSN: 2688-4070
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Publications



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Coverage:

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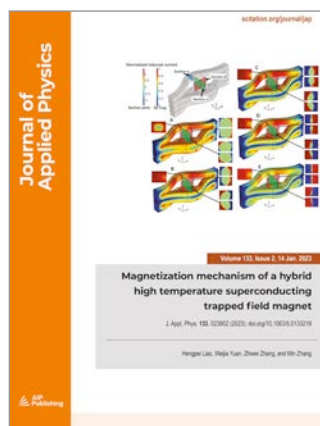
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Xue-ming Yang
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Dalian, China

Journal Impact Factor: 1.090*

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Editor-in-Chief:

André Anders
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Journal Impact Factor: 2.877*

2023: Volumes 133 & 134, 48 issues
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The Journal of the Acoustical Society of America is the leading source of theoretical and experimental research results in the broad interdisciplinary subject of sound. The journal serves physical scientists, life scientists, engineers, psychologists, physiologists, architects, musicians, and speech communication specialists. *JASA Express Letters*, a component of JASA, is devoted to providing rapid and open dissemination of important new research results and technical discussion in all fields of acoustics.

Coverage:

Linear and nonlinear acoustics; aeroacoustics, underwater sound; and acoustical oceanography; ultrasonics and physical acoustics; architectural and structural acoustics and vibration; speech, music and noise; psychology and physiology of hearing; engineering acoustics, sound transducers and measurements; bioacoustics, animal bioacoustics and bioresponse to vibration; acoustic signal processing; computational acoustics; acoustics education

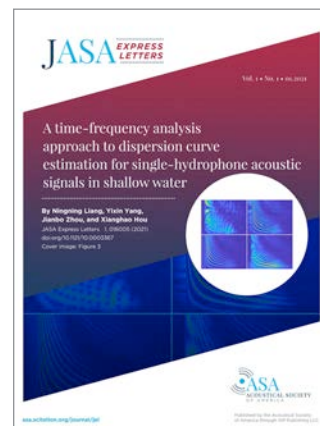
Editor-in-Chief:

James F. Lynch
Woods Hole Oceanographic Institution, Woods Hole, MA, USA

Journal Impact Factor: 2.482*

2023: Volumes 153 & 154, 12 issues
ISSN: 0001-4966
asa.scitation.org/journal/jas

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JASA Express Letters is a gold open-access journal devoted to the rapid and open dissemination of important new research results and technical discussion in all fields of acoustics. It serves physical scientists, life scientists, engineers, psychologists, physiologists, architects, musicians, and speech communication specialists who wish to quickly report the results of their acoustical research in lettersized contributions.

Coverage:

Acoustical oceanography; animal bioacoustics; architectural acoustics; biomedical acoustics; computational acoustics; engineering acoustics; musical acoustics; noise; physical acoustics; psychological and physiological acoustics; signal processing in acoustics; speech communication; structural acoustics and vibration; underwater acoustics; education in acoustics; acoustic standards and practice.

Editor-in-Chief:

Charles C. Church
University of Mississippi, MS, USA

2023 Volume 3, 12 Issues

E-ISSN: 2691-1191
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The Journal of Chemical Physics is an international journal publishing cutting edge, innovative research in all areas of modern physical chemistry and experimental and theoretical areas of chemical physics. The journal publishes articles as communications, perspectives, reviews, tutorials, and offers special topic collections.

Coverage:

Spectroscopy; dynamics; kinetics; statistical mechanics; quantum mechanics; polymers; soft matter; materials; surfaces/interfaces; biological systems; software packages

Editor-in-Chief:

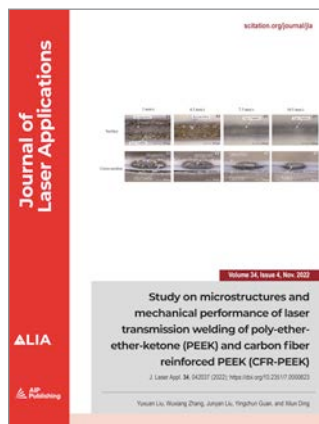
Tianquan (Tim) Lian
Emory University
Atlanta, GA, USA

Journal Impact Factor: 4.304*

2023: Volumes 158 & 159,
48 issues
ISSN: 0021-9606
E-ISSN: 1089-7690

aip.scitation.org/journal/jcp

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Journal of Laser Applications covers a broad range of laser-related research from fundamental and applied research & development to industrial applications. The journal presents the latest breakthroughs in laser applications related to photonic production, sensing and measurement, as well as laser safety. The recently digitized **LIA Conference Proceedings** includes over 5,900 articles from the ICALEO®, PICALO, and ILSC® conferences that are run by The Laser Institute (LIA).



Coverage:

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Editor-in-Chief:

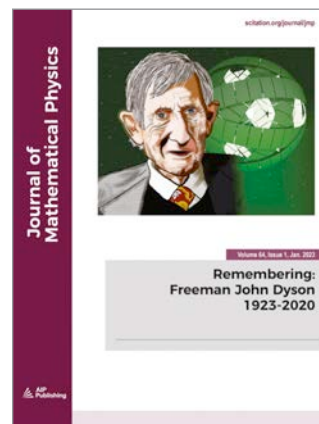
Yongfeng Lu
College of Engineering
University of Nebraska - Lincoln
Lincoln, NE, USA

Journal Impact Factor: 2.521*

2023: Volume 35, 4 issues
(online only)
ISSN: 1042-346X
E-ISSN: 1938-1387

lia.scitation.org/journal/jla

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Journal of Mathematical Physics features content in all areas of mathematical physics. Articles focus on areas of research that illustrate the application of mathematics to problems in physics, the development of mathematical methods suitable for such applications, and the formulation of physical theories.

Coverage:

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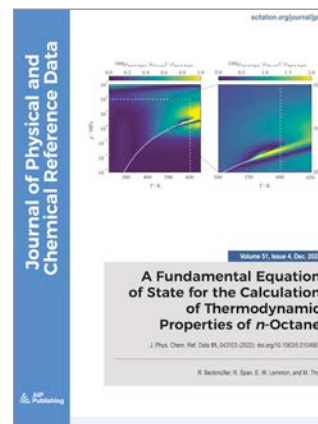
Editor-in-Chief:

Jan Philip Solovej
University of Copenhagen
Denmark

Journal Impact Factor: 1.469*

2023: Volume 64, 12 issues
ISSN: 0022-2488
E-ISSN: 1089-7658

aip.scitation.org/journal/jmp



Journal of Physical and Chemical Reference Data provides critically evaluated physical and chemical property data, fully documented as to the original sources and the criteria used for evaluation, preferably with uncertainty analysis.

Coverage:

Reference data; critical reviews of measurement techniques; critically evaluated physical data; critically evaluated chemical data

Editors-in-Chief:

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National Institute of Standards and Technology
Gaithersburg, MD, USA

Allan H. Harvey

National Institute of Standards and Technology
Boulder, CO, USA

Journal Impact Factor: 5.048*

2023: Volume 52, 4 issues
ISSN: 0047-2689
E-ISSN: 1529-7845

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Publications



Journal of the Physical Society of Japan (JPSJ) is a flagship journal of The Physical Society of Japan and has been publishing important research results in all fields of physics from condensed matter physics to particle physics since 1946.

Coverage:

All of physics, including but not limited to: elementary particles and fields; nuclear physics; atomic and molecular physics; fluid dynamics; plasma physics; physics of condensed matter; metals, superconductors, semiconductors, magnetic materials, and dielectric materials; physics of nanoscale materials; optics and quantum electronics; physics of complex systems; mathematical physics; chemical physics; biophysics; geophysics; astrophysics

Editor-in-Chief:

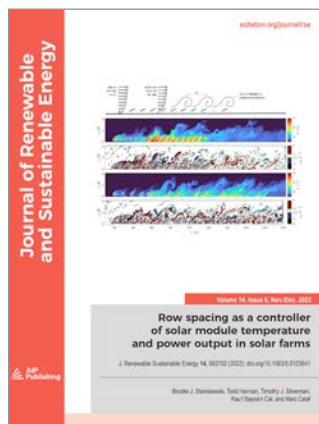
Kazuo Ueda
The Physical Society of Japan

Journal Impact Factor: 1.933*

2023: Volume 91, 12 issues
ISSN: 0031-9015
E-ISSN: 1347-4073

journals.jps.jp/journal/jpsj

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Coverage:

Energy meteorology and energy climatology; atmospheric physics; weather-dependent energy science and engineering; renewable energy resource assessment; energy and climate; solar energy for power generation (PV, CSP, CPV); wind energy; distributed energy generation; power systems modeling; energy efficient buildings; energy storage; fuel cells; marine and hydroelectric energy; biomass for energy sector decarbonization

Editor-in Chief:

Carlos F.M. Coimbra
University of California
San Diego, CA, USA

Journal Impact Factor: 2.847*

2023: Volume 15, 6 issues
(online only)
E-ISSN: 1941-7012

aip.scitation.org/journal/rse



The Journal of Rheology is a vital resource for researchers working in fields as diverse as polymer physics and fluid mechanics. It presents experimental results, phenomenological models, and microscopic theories dealing with the rheological behavior of complex materials, including macromolecular, colloidal and particulate solids, and fluids. Application areas include foods, paints, plastics, lubricants, ceramics, coatings, glaciers, and biological fluids.

Coverage:

Colloidal gel yield stress; magnetorheological fluids; associating polymers; entangled polymers; polymer nanocomposites; reactive compatibilization; pastes, foams, and surfactants; interfacial rheometry; microrheology; computer simulations

Editor:

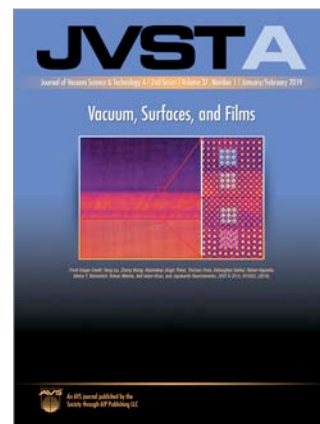
Dimitris Vlassopoulos
FORTH and University of Crete
Heraklion, Crete, Greece

Journal Impact Factor: 4.534*

2023: Volume 67, 6 issues
ISSN: 0148-6055
E-ISSN: 1520-8516

sor.scitation.org/journal/jor

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Journal of Vacuum Science & Technology A has a scope that is focused on the understanding of interfaces and surfaces at a fundamental level and to advance state-of-the-art technological applications of surface science and thin-film materials science.

Coverage:

Applied and fundamental surface science; atomic layer deposition; electronic and photonic materials and their processing; magnetic thin films and interfaces; materials and thin films for energy conversion and storage; photovoltaics including thin-film and organic; plasma science and technology including plasma-surface interactions, diagnostics, deposition, and etching; applications of plasmas to micro- and nanoelectronics; surface engineering; thin-film deposition, etching, properties, and characterization; TEM; in-situ TEM; tribology

Editor:

Eray S. Aydil
New York University
Tandon School of Engineering
Brooklyn, NY, USA

Journal Impact Factor: 3.234*

2023: Volume 41, 6 issues
ISSN: 0734-2101
E-ISSN: 1520-8559

avs.scitation.org/journal/jva

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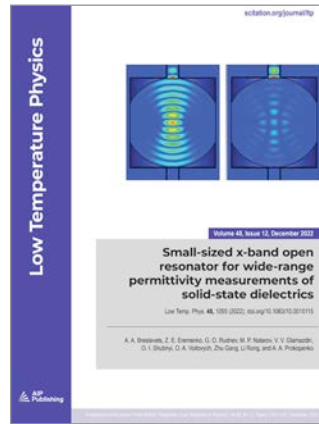
Journal of Vacuum Science & Technology B covers microelectronics and nanometer structures with an emphasis on processing, measurement, and phenomena associated with micrometer, nanometer structures and devices and vacuum science and technology.

Coverage: Compound semiconductor electronics and optoelectronics; devices for energy conversion and storage; dielectrics in micro and nanoelectronics; graphene, carbon nanotubes, and fullerenes; group IV semiconductor microelectronics; lithography; MEMS and NEMS; nanometer science and technology; nanostructured materials and devices including nanowires, nanoparticles, and quantum dots; organic and molecular electronics; photovoltaics based on nanostructured materials, dye-sensitized and other excitonic solar cells; plasmonics; spintronics and magnetic devices; vacuum nanoelectronics; vacuum science and technology

Editor-in-Chief:
Eray S. Aydil
New York University
Tandon School of Engineering
Brooklyn, NY, USA

Journal Impact Factor: 1.572*
2023: Volume 41, 6 issues
ISSN: 2166-2746
E-ISSN: 2166-2754
avs.scitation.org/journal/jvb

Published on behalf of:



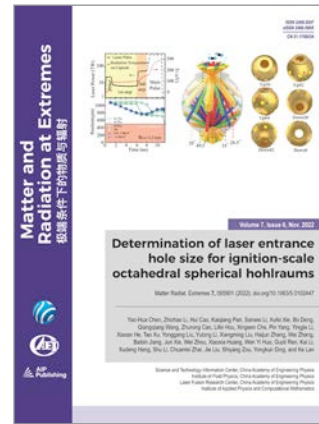
Low Temperature Physics communicates the results of important experimental and theoretical studies at low temperatures.

Coverage: Superconductivity; quantum liquids and crystals; electronic properties of metals; disordered systems; magnetism; lattice dynamics; cryocrystals; critical phenomena

Editor-in-Chief
Yu. G. Naidyuk

Associate Editor-in-Chief
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Journal Impact Factor: 0.891*
2023: Volume 49, 12 issues
ISSN: 1063-777X
E-ISSN: 1090-6517
aip.scitation.org/journal/ltp



Matter and Radiation at Extremes (MRE) is committed to the publication of original research and comprehensive and in-depth review papers in all areas of experimental and theoretical physics on matter and radiation at extremes. MRE aims to provide a peer-reviewed Open-Access platform for the international physics community and promote worldwide dissemination of the latest and best research in related fields.

Coverage: All areas of physical sciences in applied, theoretical, and experimental research on matter and radiation at extremes.

Editors:
Co-Editors-in-Chief
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China Academy of Engineering Physics, China

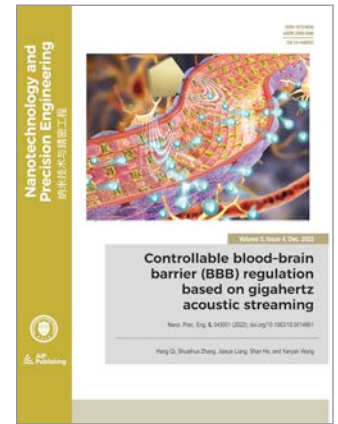
Michel Koenig
Laboratoire LULI - CNRS, France

Hokwang Mao (毛河光)
Center for High Pressure Science & Technology Advanced Research, China

Executive Editor-in-Chief
Ke Lan (蓝可)
Institute of Applied Physics and Computational Mathematics, China

Journal Impact Factor: 6.089*
2023: Volume 8, 6 issues
E-ISSN: 2468-080X
aip.scitation.org/journal/mre

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Nanotechnology and Precision Engineering (NPE) is a peer-reviewed, interdisciplinary research journal that covers all areas related to nanotechnology and precision engineering, which provides a forum for researchers of the related field all over the world. Published four times per year, NPE publishes original research articles, reviews, communications and discussions.

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Chief:
Xuexin Duan
Tianjin University, China

Executive Editor:
Zurong Qiu
Tianjin University, China

2023: Volume 6, 4 issues
ISSN: 1672-6030
E-ISSN: 2589-5540
aip.scitation.org/journal/npe

Published on behalf of: **Tianjin University**



Publications



Physics of Fluids is devoted to publishing original theoretical, computational, and experimental contributions to the understanding of the dynamics of gases, liquids, and complex or multiphase fluids.

Coverage:

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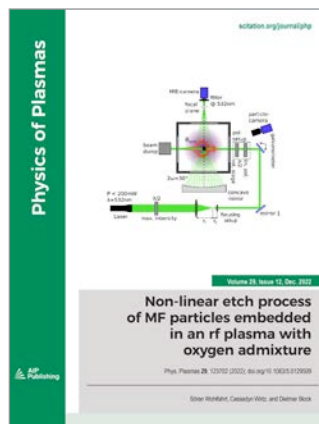
Editor-in-Chief:

A. Jeffrey Giacomin
Queen's University
Kingston, Ontario, Canada

Journal Impact Factor: 4.980*

2023: Volume 35, 12 issues
ISSN: 1070-6631
E-ISSN: 1089-7666

aip.scitation.org/journal/phf



Physics of Plasmas, published by AIP Publishing in cooperation with the APS Division of Plasma Physics, is committed to the publication of original research in all areas of experimental, computational, and theoretical plasma physics. *Physics of Plasmas* publishes comprehensive and in-depth review papers covering important areas of study, Special Topics highlighting new and cutting-edge developments in plasma physics. Every year a special issue publishes the invited and review papers from the most recent meeting of the APS Division of Plasma Physics.

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Editor-in-Chief:

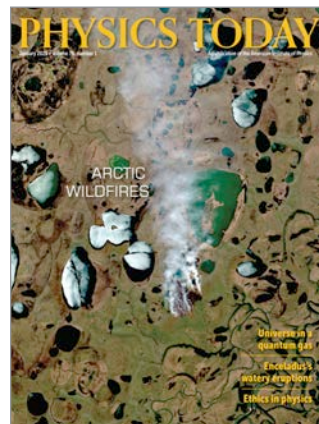
Michael E. Mauel
Columbia University
New York, NY, USA

Journal Impact Factor: 2.357*

2023: Volume 30, 12 issues
ISSN: 1070-664X
E-ISSN: 1089-7674

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Coverage:

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Editor-in-Chief:

Charles Day
American Institute of Physics
College Park, MD, USA
Published by the American Institute of Physics
College Park, MD, USA

Journal Impact Factor: 3.938*

2023: Volume 76, 12 issues
ISSN: 0031-9228

physicstoday.scitation.org

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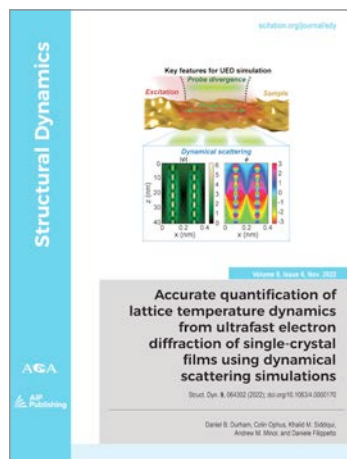
Editor-in-Chief:

Richard C. Pardo
Argonne National Laboratory
Argonne, IL, USA

Journal Impact Factor: 1.843*

2023: Volume 94, 12 issues
ISSN: 0034-6748
E-ISSN: 1089-7623

aip.scitation.org/journal/rsi



Structural Dynamics is a peer-reviewed, open access journal highlighting research articles on structural determination and dynamics of chemical and biological systems and solid materials, enabled by the emerging new instruments (e.g. XFELs, high harmonic generation, electron sources, etc.) and new experimental and theoretical methodologies. *Structural Dynamics* has frequent special topic issues for example: Transactions from the 70th Annual Meeting of the American Crystallographic Association, Dynamics and Neutron Scattering, and Theory of Ultrafast X-ray and Electron Phenomena.

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Editor-in-Chief:

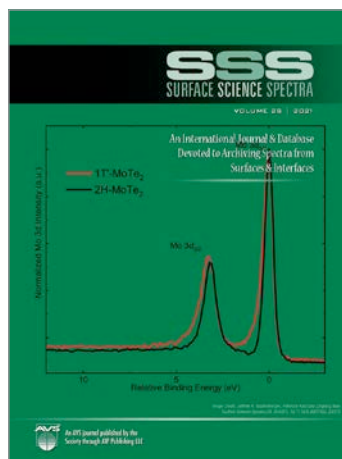
George N. Phillips Jr.
Rice University, Houston, TX, USA

Journal Impact Factor: 3.67*

2023: Volume 10, 6 issues
(online only)
E-ISSN: 2329-7778

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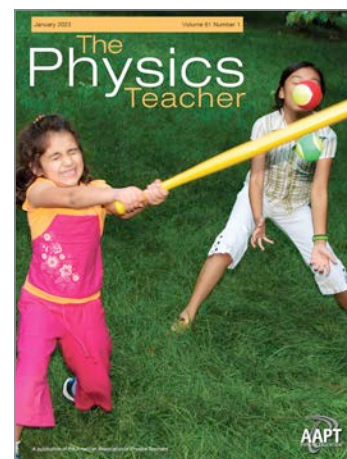
Editor:

Richard T. Haasch
University of Illinois at Urbana
Champaign, Urbana, IL, USA

**Indexed in Web of Science;
Journal Impact Factor forthcoming**

2023: Volume 29, 2 issues (online only)
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Tutorial papers; articles on pedagogy; current research or news in physics; articles on history and philosophy of science; biographies; demonstrations; apparatus; book reviews

Editor:

Gary D. White
George Washington University
Washington, DC, USA

Journal Impact Factor: 0.566*

2023: Volume 61, 9 issues
ISSN: 0031-921X

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