

**2023**

**Product  
Guide**



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AIP Supports the Community

# About AIP Publishing

Our mission is to advance, promote, and serve the physical sciences for the benefit of humanity by breaking barriers to open, equitable research communication and empowering researchers to accelerate global progress.

We are committed to ensuring all findings with the potential to advance the physical sciences are presented, promoted, and permanently available as the building blocks of future discoveries. Connecting our authors and readers to a living legacy of published science, to peers and institutions across the globe, and to services, tools, and platforms that expand the impact and reach of their work is key to advancing discovery.

Even as the scholarly publishing universe continues to change, our commitment to the scientific community will always remain constant.

## Industry Initiatives and Partnerships

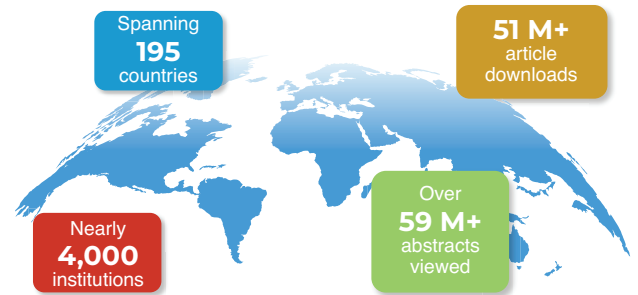
We participate in numerous industry initiatives and partnerships supporting and safeguarding the flow of scholarly content to the science community.



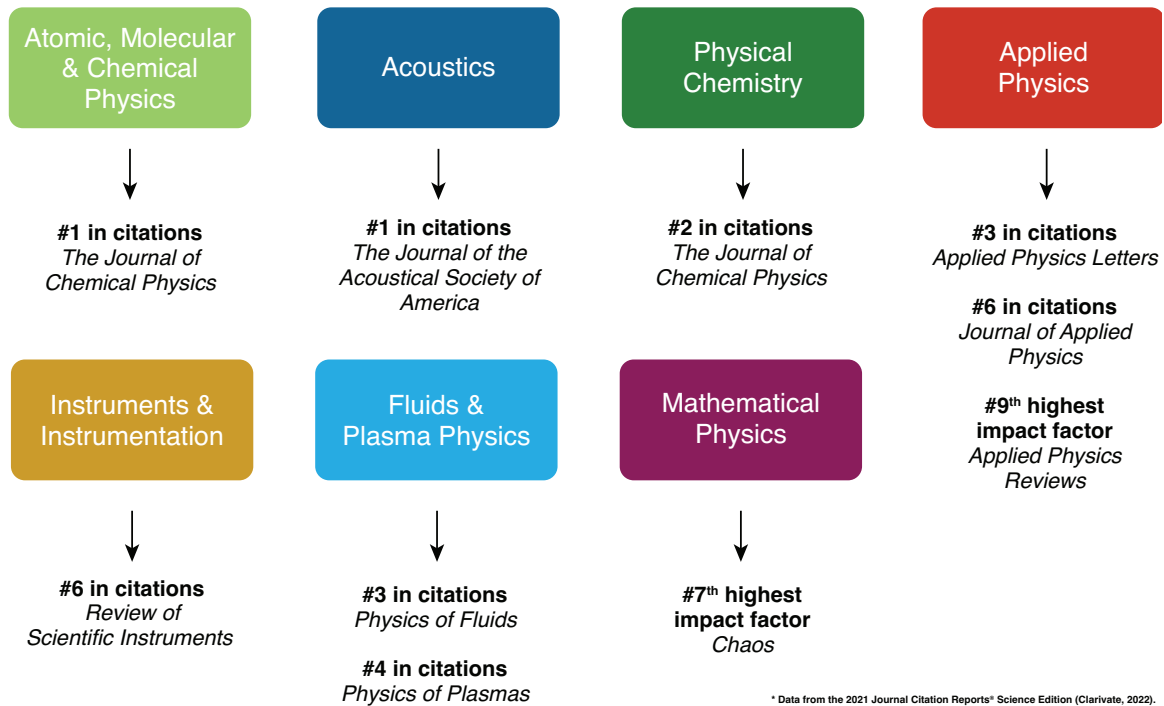
# Global Reach and Outstanding Quality

## Global Dissemination

Researchers from nearly **4,000 institutions** spanning **195 countries** across the world access **59+ million abstracts** and download **51+ million articles** annually.

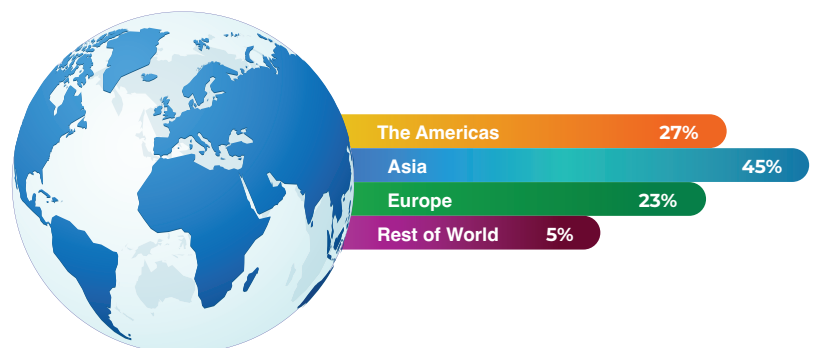


## Outstanding Quality



## Global Authorship

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



\*\* excludes AIP & LIA Conference Proceedings

# Access Options

librarians.aip.org

## Read & Publish

We make research open and accessible through tailored Read & Publish agreements with academic and research institutions. These partnerships aim to increase open access output and expand the reach of scientific discoveries across the physical sciences.

Researchers, faculty, and students at institutions with a Read & Publish agreement are able to access and download subscribed content from **scitation.org**. Articles with a corresponding author from participating institutions will be published open access in our hybrid journals, making research output compliant with funder mandates and more visible and accessible to the scientific community.

A simple workflow for authors and an integrated account management system for institutions makes publishing open access through a Read & Publish agreement seamless for everyone. Administrators receive regular usage reports and activity notifications to help monitor publication output and see which articles have been published open access. **[publishing.aip.org/read-and-publish](https://publishing.aip.org/read-and-publish)**



## AIP Complete

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Offering the research community access to highly-cited, peer-reviewed publications including all subscription publications from AIP Publishing, Physics Today, AIP Conference Proceedings, and our publishing partner journals. AIP Complete provides your researchers with access to 30 publications that offer the most current advances as well as an archive of foundational research from notable scientists and Nobel Prize winners to inspire future discoveries. **Spanning the physical sciences, AIP Complete encompasses 1M+ articles.**

### **Subscription Options Available:**

- **Frontfile (1999-present) + Backfile (1929-1998)**
- **Frontfile (1999-present) + Backfile (1929-1998) + Print\***

*\* as available*

## Digital Archives

### **[Purchase the complete Digital Archives.](#)**

AIP Publishing's digital archives offer researchers permanent access to 447k+ influential articles from AIP Publishing and our publishing partners. Dating back to 1929, this timeless collection provides scientific advancements and field-defining discoveries from Nobel Prize winners and notable scientists across the physical sciences.

Institutions have the option to purchase the full archive (AIP Digital Archives) or choose the journals best suited for their collection (DA Choice).

*Customers who purchased the Digital Archives prior to 2019 should contact their sales representative to learn how they can add the newest journals to their package to secure permanent access for their users.*

## AVS Bundled Package

Five journals covering thin films, MEMS & NEMS, interfaces, and surface science, as well as biological interfaces, quantum science, atomic layer deposition, and nanotechnology. *Surface Science Spectra* is included in the package and concentrates on data reproducibility.

### Includes access to:

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



### Access options:

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

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## 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).

### Include access to:

- *Physics of Fluids*
- *Physics of Plasmas*
- *Journal of Rheology*

Contact your local Sales Manager  
to learn which package is right for  
your institution.

sales@aip.org • +1800.344.6902 • +1516.576.2413

# AIP Publishing Books

## Designed for Today's Scientists

### Available on [scitation.org/books](https://scitation.org/books)

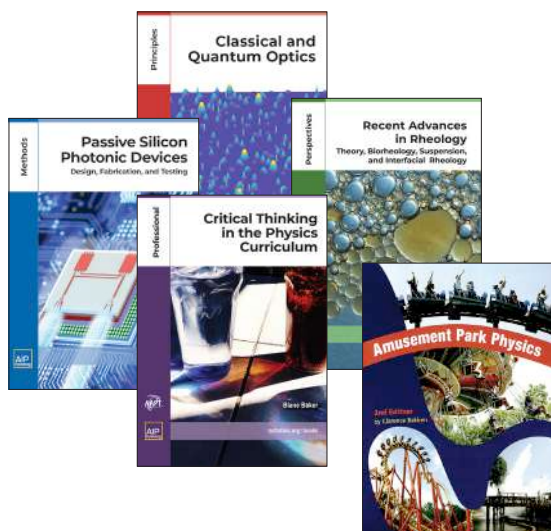
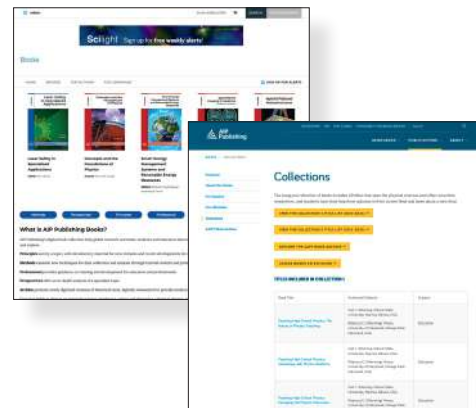
Our books drive discovery, enable learning, and encourage best practices in scientific analysis. The collections include newly published and digitized classic texts spanning the breadth of the physical sciences. They offer scientists, researchers, students, and practitioners tools to help them advance in their current field or learn about a new area of study.

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Select books are co-published with **The American Association of Physics Teachers (AAPT)**. These titles feature recently published content as well as remastered classics that focus on training and development resources for physics educators and professionals.



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## Your Window to Learning in the Physical Sciences

University Science Books is a leading publisher of textbooks and course materials, available in print and eBook formats, for undergraduate and graduate courses that span the physical sciences. With core texts in physics, chemistry, environmental sciences, and engineering, our books help thousands of professors train the next generation of scientists. Many of our books include instructor's manuals, student solutions manuals, artwork for instructor use, and online homework modules.

### Our books are:

- High quality and affordably priced
- Designed with sound pedagogy as their prime motivator
- Proven to have long shelf lives, making them excellent acquisitions for instructors

### Available Worldwide

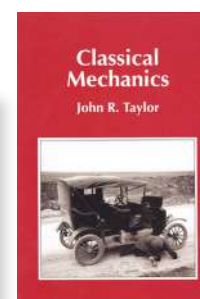
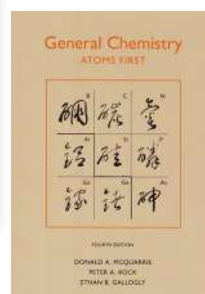
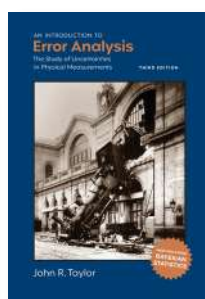
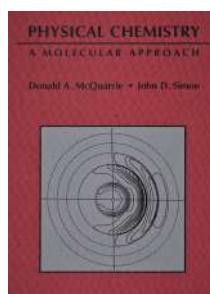
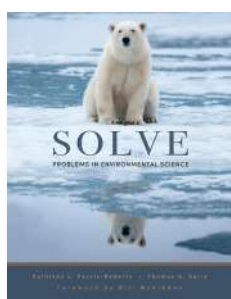
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# Open Science

**Our mission is to accelerate science and disseminate new research results to scientists worldwide.**

Our commitment to open science spans our entire publication portfolio. We publish eleven fully open access journals, and our Author Select option enables authors to make their paper open access in all our other titles.

Our open access journals use a CC BY license, the most liberal Creative Commons license which allows authors to reuse and distribute their work without restrictions. Our hybrid journals use an author friendly license to publish, allowing researchers to retain copyright to their published work. We encourage all authors to post accepted versions of their articles to their personal website or employee webpage immediately after acceptance and to deposit the accepted version in an institutional or funder designated repository.

AIP Publishing, through participation in the CHORUS initiative, makes publicly available the Accepted Manuscript version of an article in response to government or funder requirements 12 months after publication. AIP Publishing continues to work in tandem with representatives from the library and research communities as well as funding agencies to develop sustainable solutions for public access.



## Open Access

Articles published in a fully open access journal are freely available to read, download, and share. Publication is funded by an Article Processing Charge (APC) paid by the author or another sponsor.

### Our Open Access Portfolio:

- *AIP Advances*
- *APL Bioengineering*
- *APL Energy (new in 2023)*
- *APL Machine Learning (new in 2023)*
- *APL Materials*
- *APL Photonics*
- *APL Quantum (new in 2023)*
- *JASA Express Letters*
- *Matter and Radiation at Extremes*
- *Nanotechnology and Precision Engineering*
- *Structural Dynamics*



## Open Data

We believe that all datasets underlying the conclusions of a paper should be available to readers. We encourage authors to deposit their datasets in publicly available repositories or present them in the main manuscript. All published articles include a data availability statement that informs readers where the data can be found. Linked data is cited in the references.

# The Scitation Platform

Scitation offers a seamless interface for users to access content and administrators to manage their account. After logging into your scitation.org account:

## Administrators can:

- **Manage** account holdings, admin rights, IP ranges, and more
- **Update branding** so your users know access is being provided by their institution
- **Review and analyze** COUNTER usage statistics

## Users can take advantage of:

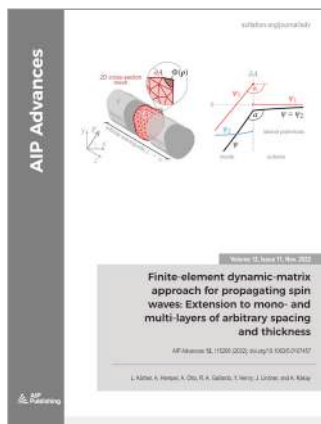
- **24/7 online access** to subscribed and OA publications
- **Fully searchable** platform with the capability to save searches
- **One-click** social media sharing
- **Optimized display** across mobile devices and browsers
- **Improved speed** allowing for faster navigation and search functionality
- **Remote access** allowing you to access content from anywhere, anytime
- **View trending articles** and free access to all supplementary material



## Facts & Figures



# Publications



**AIP Advances** is an open access, multidisciplinary journal covering all areas of the physical sciences—experimental, theoretical, and applied. The inclusive scope and publication standards of *AIP Advances* make it an essential outlet for scientists across the physical sciences.

#### Coverage:

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

#### Deputy Editors:

**Javier Garay**  
University of California,  
San Diego, San Diego, CA, USA

**A.T. Charlie Johnson, Jr.**  
University of Pennsylvania  
Philadelphia, PA, USA

**Ben Slater**  
University College London  
London, UK

**Masaaki Tanaka**  
The University of Tokyo  
Tokyo, Japan

**Enge G. Wang**  
Peking University  
Beijing, P.R. China

**Journal Impact Factor: 1.697\***  
2023: Volume 13, 12 issues  
(online only)  
E-ISSN: 2158-3226  
[aip.scitation.org/journal/adv](http://aip.scitation.org/journal/adv)

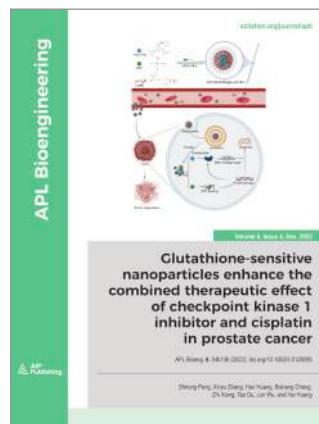


**AIP Conference Proceedings** contain over 100,000 articles published in more than 2,000 proceedings since its inception in 1970. Each year approximately 100 new volumes (some 10,000 papers) are added to this substantial body of scientific literature. Published conference proceedings are valuable as 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

ISSN: 0094-243X  
E-ISSN: 1551-7616  
[aip.scitation.org/journal/apc](http://aip.scitation.org/journal/apc)



**APL Bioengineering** is an open access journal publishing articles specific to the understanding and advancement of physics and engineering of biological systems. The journal serves the bioengineering and biomedical research communities by publishing original research articles, reviews, and perspectives.

#### Coverage:

All areas of bioengineering including: biofabrication and bioprinting; biomedical instrumentation and imaging; biomedical microdevices and sensors; biomimetic materials, devices, and processes; biophotonics; cell and molecular biophysics; cell and tissue engineering; drug delivery and gene therapy; engineered living systems; genome engineering; molecular, cell, and tissue biomechanics; regenerative medicine; soft robotics; stem cell engineering; systems biology and computational biology

#### Editor-in-Chief:

**Justin Cooper-White**  
University of Queensland  
Brisbane, Australia

#### Indexed in Web of Science and Pubmed;

2023: Volume 7, 4 issues  
(online only)  
E-ISSN: 2473-2877  
[aip.scitation.org/journal/apb](http://aip.scitation.org/journal/apb)



**APL Energy** is a new open access journal featuring interdisciplinary research from physics, chemistry, materials science, engineering, and related fields in energy and energy technology. The journal aims to integrate basic research and technological innovation and will consider research articles, perspectives, reviews and roadmaps article types.

#### Coverage:

All areas of energy storage – batteries, capacitors, super-capacitors, solar and thermal energy storage, hydrogen storage; energy harvesting – photovoltaics, nanogenerators, electromagnetics, piezoelectrics, ferroelectrics, triboelectrics; energy generation – fuel cells, electrolyzers, bioenergy, catalysis, photoelectrochemicals, greenhouse gas remediation; hybrid energy systems; novel materials for energy; materials and device stability; sustainability and renewable energy, circular economy, recyclability

#### Editor-in-Chief:

**Mónica Lira-Cantú**  
Catalan Institute of Nanoscience and Nanotechnology (ICN2),  
Barcelona, Spain

2023: Volume 1, 12 issues per year  
(online only)  
E-ISSN: 2770-9000  
[publishing.aip.org/apl-energy](http://publishing.aip.org/apl-energy)



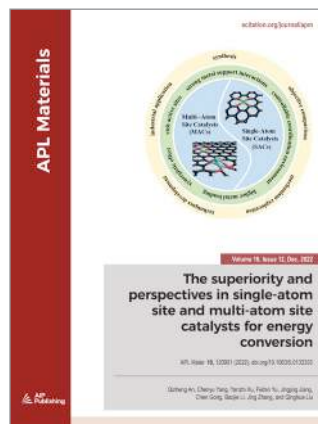


**APL Machine Learning** is a new open access journal featuring vibrant and timely research from two communities, researchers who use machine learning (ML) and data-driven approaches for physical sciences and related disciplines and researchers who work on developing novel concepts, including materials, devices, systems, and algorithms for future AI/ML technologies. The journal also considers research that substantially describes quantitative models and theories, especially if the research is validated with experimental results.

**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:**  
**Adnan Mehonic**  
University College London, UK

2023: Volume 1, 12 issues per year (online only)  
E-ISSN: 2770-9019  
[publishing.aip.org/apl-machine-learning](http://publishing.aip.org/apl-machine-learning)

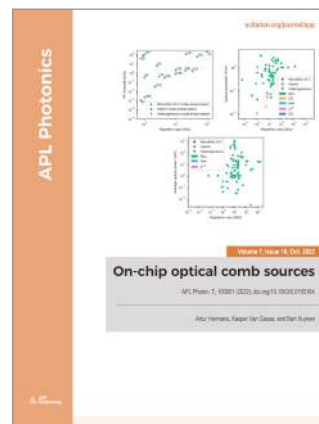


**APL Materials** is an open access journal that features original research on significant topical issues within the field of materials science. The journal also publishes perspectives, research updates, roadmaps, and special topic collections on emerging areas in materials science.

**Coverage:** All areas of materials science including: nanomaterials and nanostructures; electronic, magnetic and optical materials; organic materials; polymers; biomaterials; energy and environment materials; carbon and amorphous materials; general functional materials

**Editor-in-Chief:**  
**Bo Wang**  
Beijing Institute of Technology, Beijing, China

**Journal Impact Factor: 6.635\***  
2023: Volume 11, 12 issues (online only)  
E-ISSN: 2166-532X  
[aip.scitation.org/journal/apm](http://aip.scitation.org/journal/apm)



**APL Photonics** is the dedicated home for open access multidisciplinary research from and for the photonics community. The journal publishes fundamental and applied results that significantly advance the knowledge in photonics across physics, chemistry, biology, and materials science. It welcomes high-quality original contributions to the science of light and the technology that generates, controls, and detects photons.

**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

**Editor-in-Chief:**  
**Benjamin Eggleton**  
Sydney Nano, School of Physics  
University of Sydney, Australia

**Journal Impact Factor: 6.382\***  
2023: Volume 8, 12 issues (online only)  
E-ISSN: 2378-0967  
[aip.scitation.org/journal/app](http://aip.scitation.org/journal/app)



**American Journal of Physics** is the archival journal of the American Association of Physics Teachers. The journal is devoted to the instructional and cultural aspects of physical science. Geared toward teaching at the college level, content covers novel approaches to laboratory and classroom instruction, insightful articles on topics in classical and modern physics, apparatus notes, historical and cultural topics, and book reviews.

**Coverage:** Physics topics taught at the undergraduate and graduate level; current research in physics and related areas; suggestions for instructional laboratory equipment and teaching methodologies; information on historical, philosophical, and cultural aspects of physics; annotated lists of resources; book reviews

**Editor:**  
**Beth Parks**  
Colgate University, Hamilton, NY, USA

**Journal Impact Factor: 0.835\***  
2023: Volume 91, 12 issues per year  
ISSN: 0002-9505  
E-ISSN: 1943-2909  
[aapt.scitation.org/journal/ajp](http://aapt.scitation.org/journal/ajp)

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# Publications



**Applied Physics Letters** emphasizes rapid dissemination of key data and new physical insights, offering prompt publication of new experimental and theoretical papers related to applications of physics phenomena in all branches of science, engineering, and modern technology. The journal also publishes perspectives and special topic collections focusing on areas of emerging interest.

#### Coverage:

Photonics and optoelectronics; surfaces and interfaces; advanced materials; semiconductors; magnetism and spintronics; superconductivity and superconducting electronics; dielectrics, ferroelectrics, and multiferroics; low-dimensional and topological materials; solution-processable electronics and photonics; device physics; biophysics, bioimaging, and biosensors; energy conversion and storage; quantum technologies; interdisciplinary applied physics; metasurfaces and metamaterials; phononic, acoustic, and thermal properties

#### Editor-in-Chief:

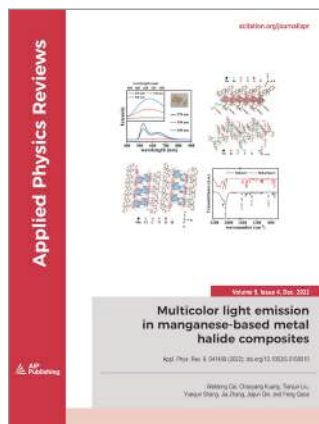
**Lesley F. Cohen**  
Blackett Laboratory  
Imperial College London,  
London, UK

#### Journal Impact Factor: 3.971\*

2023: Volumes 122 & 123,  
52 issues  
ISSN: 0003-6951  
E-ISSN: 1077-3118

[aip.scitation.org/journal/apl](http://aip.scitation.org/journal/apl)

One of the most cited journals in Applied Physics\*



**Applied Physics Reviews** features significant research and reviews covering all areas of applied physics. The journal's focus is on experimental and theoretical research alongside the application of physics to other branches of science and engineering. Review articles published in the journal provide in-depth coverage of new and emerging areas of interest to researchers interested in the physical sciences.

#### Coverage:

Photonics, lasers, optics, and optoelectronics; device physics, characterization, and manufacturing; materials synthesis, processing, and properties; nanoscale science and technology; advanced energy materials and concepts; applied biophysics and biomaterials

#### Executive Editor:

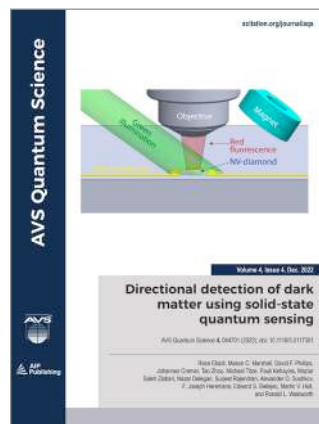
**Yujun Wang**  
AIP Publishing

#### Editor-in-Chief:

**Chennupati Jagadish**  
The Australian National University  
Canberra, Australia

#### Journal Impact Factor: 19.527\*

2023: Volume 10, 4 issues  
(online only)  
E-ISSN: 1931-9401  
[aip.scitation.org/journal/are](http://aip.scitation.org/journal/are)



**AVS Quantum Science**, copublished by AIP Publishing and AVS, is a truly interdisciplinary journal bridging some of the most important research areas, including: condensed matter, atomic, molecular and optical physics, to biology, chemistry, and materials science, to computer science and engineering, all through the foundations of quantum science.

#### Coverage:

Quantum engineering, quantum materials, quantum photonics, quantum biology, quantum chemistry, quantum communication, quantum sensing and metrology, quantum measurement technology, atoms and molecules in quantum devices, superfluid and superconductors in quantum devices, quantum computers and software, materials and methods for quantum devices, macroscopic and hybrid quantum systems

#### Editor-in-Chief:

**Philippe Bouyer**  
Institute of Optics of Aquitaine  
Talence, France  
2023: Volume 5, 4 issues  
ISSN: 2639-0213  
[avs.scitation.org/journal/aqs](http://avs.scitation.org/journal/aqs)

#### Published on behalf of:



**Biointerphases** is an interdisciplinary, peer-reviewed journal featuring all aspects of quantitative soft matter interfaces: chemistry, physics, engineering, theory, and modeling.

#### Coverage:

Interface spectroscopy; in vivo and in vitro mechanisms; interface modeling; adhesion phenomena; protein-surface interactions; biomembranes on a chip; biofouling; cell-surface interactions; biosensors / biodiagnostics; bio-surface modification; the nano-bio interface; biotribology / biorheology; molecular recognition; cell patterning for function; polyelectrolyte surfaces; ambient diagnostic methods

#### Editor-in-Chief:

**Tobias Weidner**  
Aarhus University, Denmark

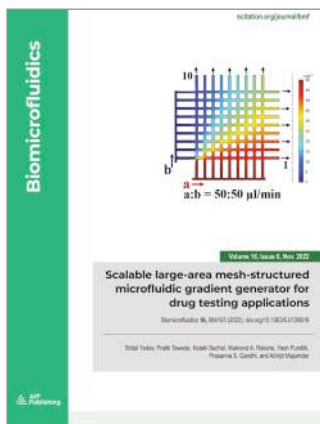
#### Journal Impact Factor: 1.961\*

2023: Volume 18, 6 issues  
ISSN: 1934-8630  
E-ISSN: 1559-4106

[avs.scitation.org/journal/bip](http://avs.scitation.org/journal/bip)

#### Published on behalf of:





**Biomicrofluidics** publishes research highlighting fundamental physiochemical mechanisms associated with microfluidic and nanofluidic phenomena as well as novel microfluidic and nanofluidic techniques for diagnostic, medical, biological, pharmaceutical, environmental, and chemical applications.

**Coverage:**

Microfluidic and nanofluidic actuation; liquid biopsy; cell sorting, manipulation, and transfection; molecular separation and concentration; cell culture and analysis; genomic and proteomic analysis; biosensors; biophysical transport and characterization; wetting, nano-rheology, and droplet platforms; pathogen detection and point-of-care diagnostics; ionophore sensors; biochip fabrication and manufacturing; drug delivery and discovery platforms; biomaterials synthesis and tissue engineering; fuel and solar cells

**Editor-in-Chief:**

**Leslie Y. Yeo**  
RMIT University  
Melbourne, Australia

**Journal Impact Factor: 3.258\***

2023: Volume 17, 6 issues (online only)  
E-ISSN: 1932-1058  
[aip.scitation.org/journal/bmf](http://aip.scitation.org/journal/bmf)



**Biophysics Reviews** features authoritative reviews and original research covering all areas of biophysics. The journal publishes research studies of high quality and comprehensive review articles of new and emerging areas of interest to the biophysics community. The journal's focus includes experimental and theoretical research of fundamental issues in biophysics in addition to the application of biophysics in other branches of science, medicine, and engineering.

**Coverage:**

Biomechanics; biomaterials; biosensors; bioelectronics; bio- and tissue engineering; bioprinting; soft robotics; biomedical instrumentation; bioimaging; computational biology and genomics; drug delivery

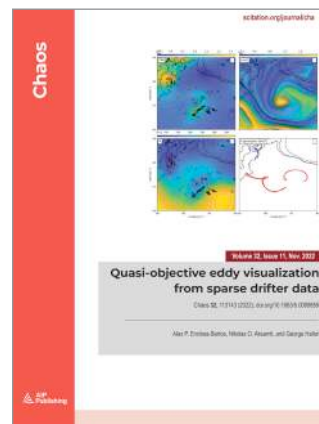
**Executive Editor:**

**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  
[aip.scitation.org/journal/bpr](http://aip.scitation.org/journal/bpr)



**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.

**Coverage:**

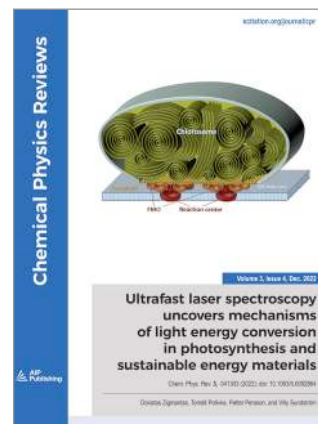
Nonlinear dynamics & complex systems; bifurcations and multistability; nonlinear time series analysis and methods; classical and quantum chaos; synchronization; reaction-diffusion systems, coherent structures, and pattern formation; complex networks; adaptive and evolving systems; stochastic dynamics; statistical mechanics and applications; nonlinear waves and solitons; nonlinear dynamics of computation; applications of nonlinear phenomena in other fields

**Editor-in-Chief:**

**Jürgen Kurths**  
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)  
ISSN: 1054-1500  
E-ISSN: 1089-7682  
[aip.scitation.org/journal/cha](http://aip.scitation.org/journal/cha)



**Chemical Physics Reviews** is a new journal featuring research articles and authoritative reviews covering all areas of chemical physics. The journal publishes research studies of high quality and comprehensive review articles of new and emerging areas of interest to the chemical physics community. CPR's focus includes experimental and theoretical research of fundamental issues in chemical physics and its applications in other branches of science, medicine, and engineering.

**Coverage:**

Catalysis; computational chemical physics; dynamics in chemical physics; energy storage & conversion; environmental & green chemistry; material surfaces & interfaces; nanoscience, photonics; polymers & soft matter; supramolecular chemistry; quantum information science

**Executive Editor:**

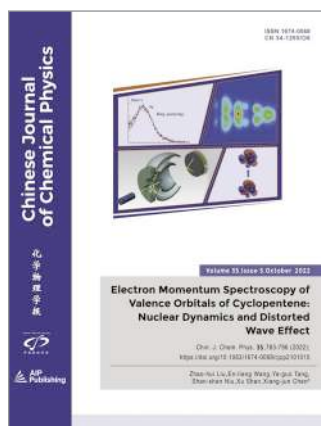
**Yujun Wang**  
AIP Publishing

**Editor-in-Chief:**

**Felix N. Castellano**  
North Carolina State University, Raleigh, NC, USA

2023: Volume 4, 1 issue (online only) E-ISSN: 2688-4070  
[aip.scitation.org/journal/cpr](http://aip.scitation.org/journal/cpr)

# Publications



**Chinese Journal of Chemical Physics** is devoted to reporting new and original experimental and theoretical research in interdisciplinary areas at the interface of chemistry and physics. It aims to provide comprehensive understanding of physical and chemical properties of different systems at atomic and molecular levels.

### Coverage:

Chemical physics as it applies to chemistry, physics, material and biological sciences, and their interdisciplinary areas

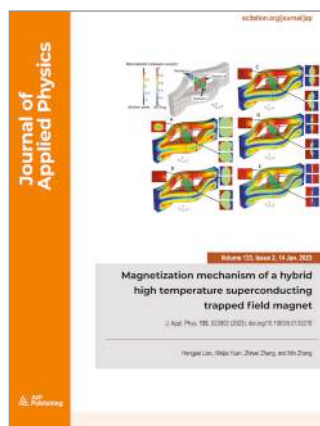
### Editor-in-Chief:

**Xue-ming Yang**  
Dalian Institute of Chemical Physics  
Dalian, China

### Journal Impact Factor: 1.090\*

2023: Volume 36, 6 issues  
ISSN: 1674-0068  
E-ISSN: 2327-2244  
[cps.scitation.org/journal/cjp](http://cps.scitation.org/journal/cjp)  
[cjcp.ustc.edu.cn](http://cjcp.ustc.edu.cn)

### Published on behalf of:



**Journal of Applied Physics** is an influential international journal publishing significant new experimental and theoretical results of applied physics research. The journal also publishes perspectives, tutorials, methods and special collections focusing on research of particular current or emerging interest.

### Coverage:

Dielectrics, ferroelectrics & multiferroics; electrical discharges, plasmas, and plasma-surface interactions; emerging, interdisciplinary, and other fields of applied physics; magnetism, spintronics, and superconductivity; organic-inorganic systems, including organic electronics; photonics, plasmonics, photovoltaics, lasers, optical materials, and phenomena; physics of devices and sensors; physics of materials, including electrical, thermal, mechanical, and other properties; physics of matter under extreme conditions; physics of nanoscale and low-dimensional systems; physics of semiconductors; quantum physics and technology; thin films, interfaces, and surfaces; soft matter, fluids, and biophysics

### Editor-in-Chief:

**André Anders**  
Leibniz Institute of Surface Modification (IOM)Leipzig, Germany

### Journal Impact Factor: 2.877\*

2023: Volumes 133 & 134, 48 issues  
ISSN: 0021-8979  
E-ISSN: 1089-7550  
[aip.scitation.org/journal/jap](http://aip.scitation.org/journal/jap)

One of the most cited journals in Applied Physics\*



**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](http://asa.scitation.org/journal/jas)

### Published on behalf of:



**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  
[asa.scitation.org/journal/jel](http://asa.scitation.org/journal/jel)

### Published on behalf of:







**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.

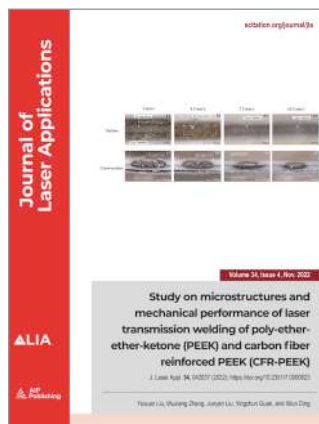
**Coverage:**

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](http://aip.scitation.org/journal/jcp)

The most cited journal  
in Atomic, Molecular, &  
Chemical Physics\*



**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).

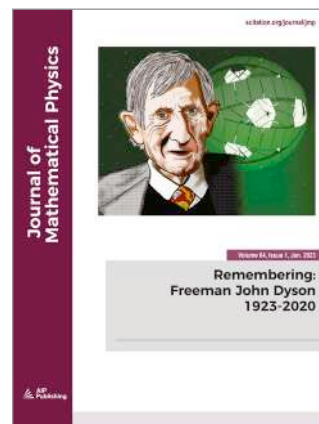
**Coverage:**

High-precision and high-power materials processing; laser additive manufacturing; laser systems and markets; spectroscopy/imaging/diagnostics/measurements; emerging applications of laser technologies; surface modification; lasers in nano-manufacturing/nanophotonics and thin film technology; medical applications and safety; thermal transportation; nanomaterials and nanoprocessing; laser applications in microelectronics

**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](http://lia.scitation.org/journal/jla)

Published on behalf of:



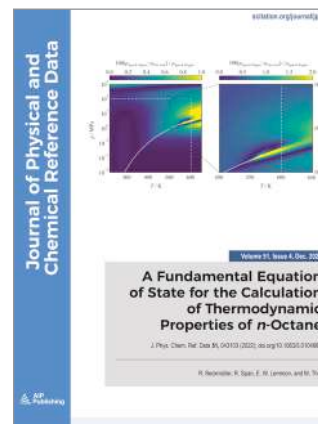
**Journal of Mathematical Physics** features content in all areas of mathematical physics. Articles focus on areas of research that illustrate the application of mathematics to problems in physics, the development of mathematical methods suitable for such applications, and the formulation of physical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

**Coverage:**

Partial differential equations; many-body and condensed matter physics; quantum information and computation; general relativity and gravitation; classical mechanics and classical fields; statistical physics; representation theory and algebraic methods; quantum mechanics - general and nonrelativistic; relativistic quantum mechanics, quantum field theory, quantum gravity and string theory; dynamical systems; fluids; and methods of mathematical physics

**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](http://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:**  
**Donald R. Burgess, Jr.**  
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  
[aip.scitation.org/journal/jpr](http://aip.scitation.org/journal/jpr)

Published on behalf of:



\* Data from the 2021 Journal Citation Reports® Science Edition (Clarivate, 2022).

# 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:

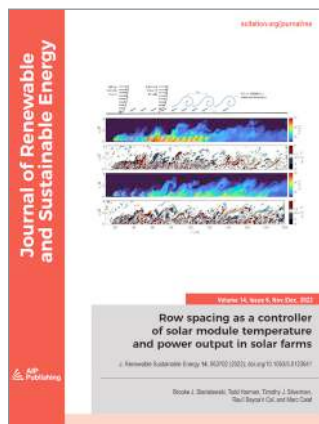
**Kazuo Ueda**  
The Physical Society of Japan

#### Journal Impact Factor: 1.933\*

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

[journals.jps.jp/journal/jpsj](http://journals.jps.jp/journal/jpsj)

#### Sold on behalf of:



**The Journal of Renewable and Sustainable Energy** is an interdisciplinary journal covering specific areas of renewable and sustainable energy relevant to the physical science and engineering communities. The journal has a strong focus on integration of disciplines for renewable power technologies at global scales that have the potential to mitigate abrupt climate change. Since volume 12, the journal has increasingly focused on discoveries related to weather-dependent renewable generation (solar and wind).

#### Coverage:

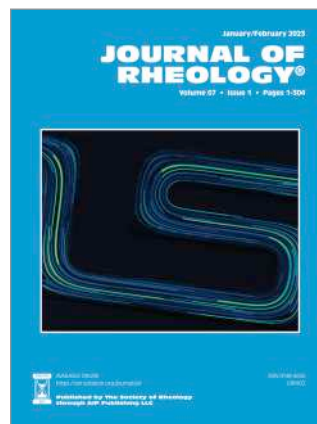
Energy meteorology and energy climatology; atmospheric physics; weather-dependent energy science and engineering; renewable energy resource assessment; energy and climate; solar energy for power generation (PV, CSP, CPV); wind energy; distributed energy generation; power systems modeling; energy efficient 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](http://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:

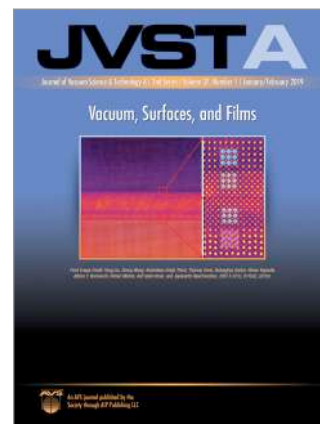
**Dimitris Vlassopoulos**  
FORTH and University of Crete  
Heraklion, Crete, Greece

#### Journal Impact Factor: 4.534\*

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

[sor.scitation.org/journal/jor](http://sor.scitation.org/journal/jor)

#### Published on behalf of:



**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](http://avs.scitation.org/journal/jva)

#### Published on behalf of:





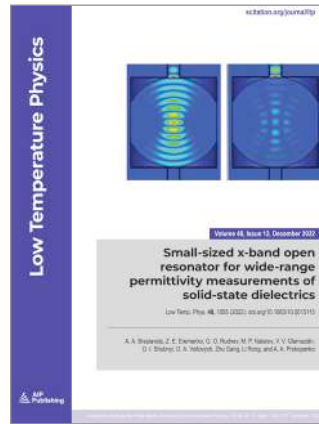
**Journal of Vacuum Science & Technology B** covers microelectronics and nanometer structures with an emphasis on processing, measurement, and phenomena associated with micrometer, nanometer structures and devices and vacuum science and technology.

**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](https://avs.scitation.org/journal/jvb)

Published on behalf of:



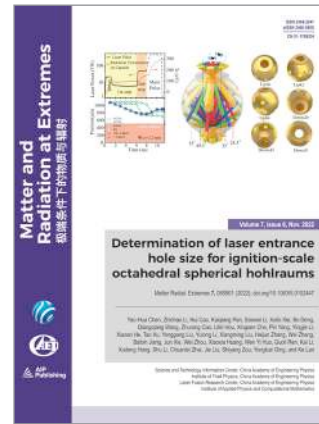
**Low Temperature Physics** communicates the results of important experimental and theoretical studies at low temperatures.

**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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**Yu. O. Kolesnichenko**  
**S. S. Sokolov**

**Journal Impact Factor: 0.891\***  
2023: Volume 49, 12 issues  
ISSN: 1063-777X  
E-ISSN: 1090-6517  
[aip.scitation.org/journal/ltp](https://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**  
**Weiyang Zhang (张维岩)**  
China Academy of Engineering Physics, China

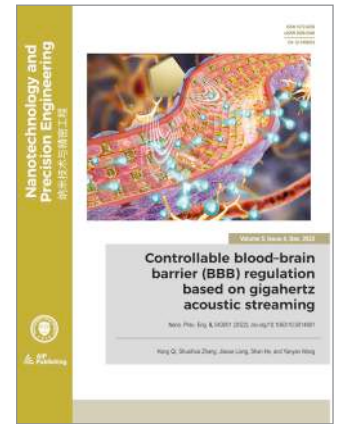
**Michel Koenig**  
Laboratoire LULI - CNRS, France

**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](https://aip.scitation.org/journal/mre)

Published on behalf of:  
**China Academy of Engineering Physics (CAEP)**



**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.

**Coverage:** Micro/Nano Devices, Sensors and Actuators, Micro- and Nanoscale Fabrication, MEMS/ NEMS, Micro/Nano Fluidics, Micro/ Nano Optics, Micro/Nanotechnology for Biomedical Applications, Micro- and Nano Characterization and Metrology, Flexible Electronics, Advanced Materials and Their Interface with Micro/ Nanotechnology, Precision Instruments, Precision Engineering, Industrial, Frontier and Future trends for NPE

**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](https://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:

Turbulent and laminar flows; interfacial flows; instability and transition; biofluid mechanics; particulate, multiphase, and granular flows; micro- and nanofluid mechanics; geophysical and compressible flows; viscous and non-Newtonian flows; computational fluid dynamics; aerospace and aeronautical flow; droplets; viscoelasticity; acoustics; astrophysical flow; transonic flow; continuum mechanics; soft matter; cryogenic flow; foam, bubbles, and film mechanics; Knudsen flow; shockwave phenomena; electrical and magnetic effects in fluid flow; relativistic fluid mechanics; complex fluids; flow orientation and anisotropy; mathematics of fluids; flows with other transport phenomena; fluid physical properties; flows with complex boundary conditions; fluid-structure interactions; flow visualization; contact lines; molecular theory

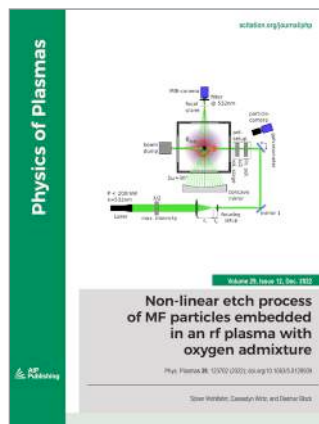
#### Editor-in-Chief:

**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](http://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.

#### Coverage:

Basic plasma phenomena; plasma waves and instabilities; magnetically confined plasmas, heating, confinement; nonlinear phenomena, turbulence, transport; heliospheric and astrophysical plasmas; dusty plasmas; low-temperature plasmas, plasma applications, plasma sources, sheaths; inertially confined plasmas, high energy density plasma science, warm dense matter; plasma-based accelerators, beams, radiation generation; radiation emission, absorption, and transport

#### 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

[aip.scitation.org/journal/php](http://aip.scitation.org/journal/php)

One of the most cited journals dedicated to plasma physics\*



*Physics Today* is the most influential and closely followed physics magazine in the world. With authoritative features, full news coverage and analysis, and fresh perspectives on technological advances and ground-breaking research, *Physics Today* informs readers about science and its role in society.

#### Coverage:

Entire range of physics and physics related sciences

#### Editor-in-Chief:

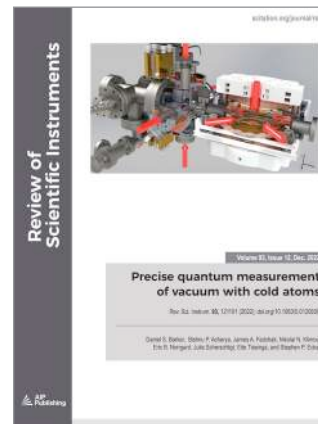
**Charles Day**  
American Institute of Physics  
College Park, MD, USA  
Published by the American Institute of Physics  
College Park, MD, USA

#### Journal Impact Factor: 3.938\*

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

[physicstoday.scitation.org](http://physicstoday.scitation.org)

#### Published on behalf of:



*Review of Scientific Instruments* publishes novel advancements in scientific instrumentation, apparatuses, techniques of experimental measurement, and related mathematical analysis. Its content includes publication of regular articles, review articles, perspectives, tutorials, and notes on instruments covering all areas of science including physics, chemistry, and biology.

#### Coverage:

Pump-Probe and resonance ionization lasers and general lasers; spectroscopy and photon optics and detectors; atom/molecule traps, manipulation and detection; ion optics and acceleration, Particle sources and detectors, and nuclear physics; fusion and plasmas; all microscopy, imaging methods, and positioning systems; condensed matter and materials; chemistry, biology, and medicine; gravity, geophysics, astronomy and astrophysics, and remote sensing; electronics, electromagnetic technology, microwaves, and power supplies; thermometry, thermal diffusivity, acoustics, photothermal and photoacoustic; sensors, actuators, positioning devices, and MEMS/NEMS; general instruments and experimental techniques or analyses

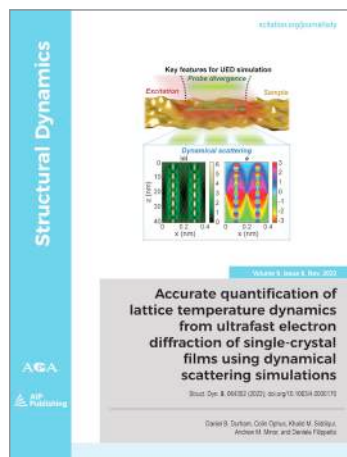
#### Editor-in-Chief:

**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](http://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.

**Coverage:**

Fundamental problems of electronic and structural dynamics that are tackled by new methods such as: Time-resolved X-ray and electron diffraction and scattering; coherent diffractive imaging; time-resolved X-ray spectroscopies (absorption, emission, resonant inelastic scattering, etc.); time-resolved electron energy loss spectroscopy (EELS) and electron microscopy; time-resolved photoelectron spectroscopies (UPS, XPS, ARPES, etc.); multidimensional spectroscopies in the infrared, the visible and the ultraviolet; nonlinear spectroscopies in the VUV, the soft and the hard X-ray domains; theory and computational methods and algorithms for the analysis and description of structural dynamics and their associated experimental signals

**Editor-in-Chief:**

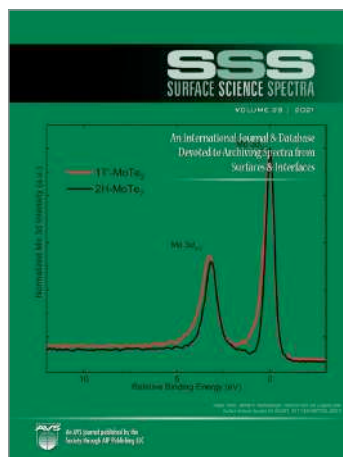
**George N. Phillips Jr.**  
Rice University, Houston, TX, USA

**Journal Impact Factor: 3.67\***

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

[aca.scitation.org/journal/sdy](http://aca.scitation.org/journal/sdy)

**Published on behalf of:**



**Surface Science Spectra** is an international journal & database devoted to supporting authors in publishing their data. SSS is an AVS archival journal and electronic database, that publishes basic materials characterization data that is peer-reviewed and available for you to plot yourself. Much of the data in SSS has also been made accessible through the interactive data analysis tool: eSpectra.

More specifically, SSS publishes XPS, AES, SIMS, Spectroscopic Ellipsometry, LEIS, and UV-vis data on a wide range of materials in both regular and focused topic issues for use by individual investigators and as a reference for analytical laboratories.

**Coverage:**

Reference, comparison, and technical spectra representing a range of spectra including XPS, AES, SIMS, Spectroscopic Ellipsometry, LEIS, and UV-vis on close to 800 different materials with downloadable data

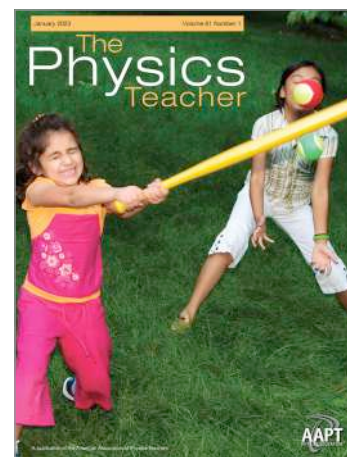
**Editor:**

**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)  
E-ISSN: 1055-5269  
[avs.scitation.org/journal/sss](http://avs.scitation.org/journal/sss)

**Published on behalf of:**



**The Physics Teacher** is dedicated to the strengthening of the teaching of introductory physics at all levels. The journal includes tutorial papers, articles on pedagogy, current research, and news in physics, as well as history, philosophy, and biography. Notes cover classroom techniques and columns feature demonstration apparatus, and book and film reviews.

**Coverage:**

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

[aapt.scitation.org/journal/pte](http://aapt.scitation.org/journal/pte)

**Published on behalf of:**



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Guiding physics undergraduates through professional development, leadership, scientific outreach, and networking tools.

### **GradSchoolShopper.com**

A free service offering undergraduates detailed information about graduate programs in the physical sciences.

### **SPS Jobs ([spsnational.org/jobs](http://spsnational.org/jobs))**

The online job portal of the Society of Physics Students and Sigma Pi Sigma, SPS Jobs is the go-to source for physics and astronomy undergraduates looking for REUs, internships, and bachelor's-level positions.

## History and Heritage

### **The Niels Bohr Library & Archives ([aip.org/history-programs](http://aip.org/history-programs))**

A rare books and publications collection housing more than 30,000 titles and 1,500 oral histories, the Niels Bohr Library and Archives spans the breadth of the physical sciences and includes works by Galileo, Isaac Newton, Max Planck, Marie Curie, and Maria Goeppert-Mayer — *all now available for public viewing.*

## Diversity Initiatives

### **TEAM-UP Together ([teammuptogether.org](http://teammuptogether.org))**

TEAM-UP Together is a joint project of AIP, the American Physical Society, the American Association of Physics Teachers, the American Astronomical Society and SPS to battle the persistent underrepresentation of African American undergraduates in physics and astronomy. The work includes scholarship awards and support programs with a goal of doubling the number of African Americans earning bachelor's degrees in physics and astronomy by 2030.

### **Scholarships and Awards ([aip.org/member-societies/diversity-initiatives/awards](http://aip.org/member-societies/diversity-initiatives/awards))**

AIP offers awards, fellowships, scholarships, and other funding sources to under-represented populations in the physical sciences.

### **Programs and Services ([aip.org/member-societies/diversity-initiatives/programs](http://aip.org/member-societies/diversity-initiatives/programs))**

AIP and its Member Societies also provide an array of programs, courses, and other services — like newsletters or reduced member fees — for under-represented populations in the physical sciences.

*For a full list of AIP's Resolutions, Policies, and Best Practices regarding Diversity, Equity, and Inclusion in the physical sciences, visit [aip.org/diversity-initiatives/policies-best-practices](http://aip.org/diversity-initiatives/policies-best-practices).*



2019 Society of Physics Students Summer Interns



A section of the rare books collection that relates to Newton's *Principia*, including four editions of the *Principia*, as well as the most important works written to explain Newton's concepts to general audiences.





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AIP Publishing  
1305 Walt Whitman Rd.  
Suite 110  
Melville, NY 11747-4300, USA

**Contact us today!**

+1 800-344-6902

+1 516-576-2270

[sales@aip.org](mailto:sales@aip.org)