Covering the Physical Science Spectrum

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In a publishing landscape dominated by commercial enterprises, as a not-for-profit society publisher AIP Publishing remains committed to a bigger mission, to serve the physical sciences community. We believe in the potential of every scientific discovery – what's published today becomes the foundation and the inspiration for researchers tomorrow.

We're actively working to make the publishing system better for scientists and for science. In 2018 we removed page and color charges from all AIP Publishing journals to reduce barriers to publication. We're currently investing in a new system for Article Processing Charges (APCs) that will make it easier for researchers to pay for open access publications and will enable institutions who are involved in managing APCs to make payments on behalf of their authors.

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This year we've made some changes to harmonize our subscription models, to provide the same flexible options for purchasing across all our titles and those of our publishing partners, and to give our customers a choice in selecting the content that best serves your needs. We've also expanded the Digital Archive which now includes content from 403,000+ articles dating back to 1930.

As a wholly-owned subsidiary of the American Institute of Physics, AIP Publishing supports an 80+ year tradition of investing in physics education, student programs, and government relations to guide policy and academic dedication to the physical sciences. Our role as a steward for physics can perhaps most clearly be seen in the Niels Bohr Library & Archives in College Park, Maryland. The recent acquisition of the Wenner collection of rare books keeps the history of physics alive and accessible to scholars, researchers and the public.

Our customers play a vital role in ensuring that our mission can be met. Together we can lead and serve our community for generations to come.

John Haynes, Ph.D.
CEO, AIP Publishing
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Our flagship journals, *Applied Physics Letters*, *Journal of Applied Physics*, and *The Journal of Chemical Physics* set the standard for quality across all our publications. The research published in these titles paves the way for new fields of study, gives rise to new techniques, and provides inspiration to contemporary researchers. Other prestigious titles within the portfolio cover plasmas, fluids, mathematical physics, instrumentation, and education.

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The AIP Publishing portfolio covers many subject areas across several industries, providing readers with access to research across the physical science spectrum.

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*2017 Journal Citation Reports® (Clarivate Analytics, 2018)

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

**Physics of Fluids, Physics of Plasmas,**
**and Journal of Rheology Package**

Online access to three highly regarded publications for fluids and plasmas researchers dating back to 1958. Access to content is available as Frontfile only (1999-present) or Backfile + Frontfile (1958-present).

Includes access to:

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* where available
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The AIP Digital Archives has been upgraded to include archival access to 20 publications from AIP Publishing and its publishing partners (from Volume 1, Issue 1 through 1998) dating back to 1930. Covering nearly 70 years of scientific advancements and discoveries, the AIP Digital Archives is an indispensable resource that offers perpetual access to 403,000+ articles on groundbreaking research in the physical sciences. This collection continues to drive research and discovery, and is packed with material relevant to physicists, chemists, materials scientists, engineers, and biologists.

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- Chaos
- Journal of Applied Physics
- Journal of Laser Applications
- Journal of Mathematical Physics
- Journal of Physical and Chemical Reference Data
- JVSTA: Vacuum, Surfaces and Films*
- JVSTB: Nanotechnology and Microelectronics*
- Low Temperature Physics
- Physics of Fluids
- Physics of Plasmas
- Physics Today*
- Review of Scientific Instruments
- Surface Science Spectra*
- The Journal of Chemical Physics
- The Journal of Rheology*
- The Journal of the Acoustical Society of America*
- The Physics Teacher*

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

*Added to the AIP Digital Archives package in 2019
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Facts & Figures

1 AIP’s flagship magazine, Physics Today
6 AIP Publishing Gold Open Access journals
13 Subscription journals published on behalf of AIP Publishing Partners
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*Applied Physics Reviews* is expanding its scope to include original research articles. APR is accepting submissions on important and novel studies of high quality and general interest to the applied physics community. The first research articles will publish in autumn 2019, and authors will have a unique opportunity to publish their work in an established, cutting-edge journal. Learn more about APR by visiting [https://aip.scitation.org/journal/are](https://aip.scitation.org/journal/are).

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**Matter and Radiation at Extremes – newly available from AIP Publishing in 2019**

Joining AIP Publishing’s Open Access portfolio, *Matter and Radiation at Extremes (MRE)* is committed to the publication and dissemination of original research and review papers in all areas of experimental and theoretical physics on matter and radiation at extremes. Published on behalf of the China Academy of Engineering Physics (CAEP).

To learn more about Matter and Radiation at Extremes, visit [mre.aip.org](http://mre.aip.org).

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**AVS Quantum Science – new from AIP Publishing in 2019**

The American Vacuum Society (AVS) and AIP Publishing are launching a new review journal: *AVS Quantum Science*. Available online only in October 2019, AVS Quantum Science will cover many aspects of quantum science and technology including experimental and theoretical advances across physics, chemistry, biology, materials science, optics, and electronics.

For more information about AVS Quantum Science visit [aip.scitation.org/journal/aqs](http://aip.scitation.org/journal/aqs).

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**Journal of the Physical Society of Japan – available through AIP Publishing in 2019**

As of January 2019, the *Journal of the Physical Society of Japan (JPSJ)* will be available through AIP Publishing. JPSJ is a flagship journal of The Physical Society of Japan (JPS) and has been publishing important research results in all fields of physics, from condensed matter physics to particle physics, since 1946.

Monthly issues will remain available through The Physical Society of Japan’s online platform and accessible at [journals.jps.jp/journal/jpsj](http://journals.jps.jp/journal/jpsj).
The Niels Bohr Library & Archives – Addition of the Wenner Collection

Building upon the world-renowned Niels Bohr Library & Archives, the Wenner Collection of rare books and manuscripts arrived at AIP Publishing’s parent organization, the American Institute of Physics in College Park, MD, in May 2018. This rare book collection contains the most important discoveries in the physical sciences over the past four centuries and consists of 3,800 volumes that were curated over the past 25 years by David Wenner. Topics in the collection include classical mechanics, electricity and magnetism, thermodynamics, condensed matter physics, astrophysics, cosmology and particle physics. The collection includes works by Galilei Galileo, Isaac Newton, Max Planck, Marie Curie, and Maria Goeppert-Mayer, and is now available for public viewing.

To learn more about the Wenner Collection, visit https://www.aip.org/physics-heritage-and-promise.

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Journal Impact Factor: 1.653*
2019: Volume 9, 12 issues
(online only)
E-ISSN: 2158-3226
aip.scitation.org/journal/adv

AIP Conference Proceedings contain over 100,000 articles published in more than 1900 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:
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ISSN: 0094-243X
E-ISSN: 1551-7616
aip.scitation.org/journal/adv

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

Coverage:
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2019: Volume 3, 4 issues
(online only)
E-ISSN: 2473-2877
aip.scitation.org/journal/apb/

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Editor-in-Chief:
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Journal Impact Factor: 4.127*
2019: Volume 7, 12 issues
(online only)
E-ISSN: 2166-532X
aip.scitation.org/journal/apm

*2017 Journal Citation Reports® (Clarivate Analytics, 2018)
**AVS Quantum Science**, published in partnership with the American Vacuum Society (AVS), strives to be a leading interdisciplinary journal covering many aspects of quantum science and technology. The scope of AVS Quantum Science includes: materials and technology for quantum devices, macroscopic quantum phenomena, quantum biology, quantum materials, and measurement technology and advancements.

**Coverage:**
Experimental and theoretical advances across physics, chemistry, biology, materials science, optics, electronics and other technological areas; as well as research in the nanosciences.

2019: Volume 1, 6 issues

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**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 / biorehabilitation; molecular recognition; cell patterning for function; polyelectrolyte surfaces; ambient diagnostic methods

**Editor-in-Chief:**
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**Journal Impact Factor:** 2.455*
2019: Volume 14, 6 issues

**ISSN:** 1934-8630
**E-ISSN:** 1559-4106

[avssciences.org/journal/bip](http://avssciences.org/journal/bip)

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**Biomicrofluidics** publishes research highlighting fundamental physicochemical 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:**
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**Editor-in-Chief:**
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Melbourne, Australia

**Journal Impact Factor:** 2.571*
2019: Volume 13, 6 issues (online only)

**ISSN:** 1932-1058
**E-ISSN:** 1932-1058

[biomicrofluidics.org/journal/bmf](http://biomicrofluidics.org/journal/bmf)

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**Coverage:**
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**Editor-in-Chief:**
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Potsdam, Germany

**Journal Impact Factor:** 2.415*
2019: Volume 29, 4 print issues (12 monthly online issues)

**ISSN:** 1054-1500
**E-ISSN:** 1089-7682

[chaos.aip.org](http://chaos.aip.org)

*2017 Journal Citation Reports* (Clarivate Analytics, 2018)
**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:**
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Dalian Institute of Chemical Physics
Dalian, China

**Journal Impact Factor:** 0.586*
2019: Volume 32, 6 issues
ISSN: 1674-0068
E-ISSN: 2327-2244
cps.scitation.org/journal/cjp
cjcp.ustc.edu.cn

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**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, and special collections focusing on research of particular current or emerging interest.

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Applied biophysics; 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, mesoscale, and low-dimensional systems; physics of semiconductors; thin films, interfaces, and surfaces

**Editor-in-Chief:**
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**Journal Impact Factor:** 2.176*
2019: Volumes 125 & 126, 48 issues
ISSN: 0021-8979
E-ISSN: 1089-7550
aip.scitation.org/journal/jap

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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:**
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**Editor-in-Chief:**
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**Journal Impact Factor:** 2.843*
2019: Volumes 150 & 151, 48 issues
ISSN: 0021-9606
E-ISSN: 1089-7690
asa.scitation.org/journal/jas

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Journal Impact Factor: 1.597*
2019: Volume 31, 4 issues
ISSN: 1042-346X
E-ISSN: 1938-1387
lia.scitation.org/journal/jla

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Journal Impact Factor: 1.165*
2019: Volume 48, 4 issues
ISSN: 0022-2489
E-ISSN: 1529-7845
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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.

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Journal Impact Factor: 3.51*
2019: Volume 48, 4 issues
ISSN: 0047-2689
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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:
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The Physical Society of Japan

Journal Impact Factor: 1.485*
2019: Volume 87, 12 issues
ISSN: 0031-9015
E-ISSN: 1347-4073
journals.jps.jp/journal/jpsj

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Coverage:
Renewable energy economics and policy; resource assessment; solar energy; wind energy; bioenergy; distributed energy generation; power distribution & systems modeling; energy efficient buildings; energy conversion; energy storage; fuel cells; marine and hydroelectric energy; transportation; geothermal energy

Editors-in-Chief:
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National Renewable Energy Laboratory
Golden Colorado, USA

Journal Impact Factor: 1.337*
2019: Volume 11, 6 issues
E-ISSN: 1941-7012
aip.scitation.org/journal/rse/low

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

Editor:
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The Pennsylvania State University
University Park, PA, USA

Journal Impact Factor: 2.969*
2019: Volume 63, 6 issues
ISSN: 0148-6055
E-ISSN: 1520-8516
sor.scitation.org/journal/jor
Published on behalf of:
The Journal of Rheology

JVST A: Vacuum, Surfaces, and Films 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, thin-film materials science, and vacuum science and technology.

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; vacuum science and technology

Editor:
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New York University
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Journal Impact Factor: 1.761*
2019: Volume 37, 6 issues
ISSN: 0148-6055
E-ISSN: 1520-8559
avs.scitation.org/journal/jva
Published on behalf of:
JVST A: Vacuum, Surfaces, and Films

JVST B: Nanotechnology and Microelectronics covers microelectronics and nanometer structures with an emphasis on processing, measurement, and phenomena associated with micrometer and nanometer structures and devices.

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

Editor-in-Chief:
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Brooklyn, NY, USA

Journal Impact Factor: 1.314*
2019: Volume 37, 6 issues
ISSN: 2166-2746
E-ISSN: 2166-2754
avs.scitation.org/journal/jvb
Published on behalf of:
JVST B: Nanotechnology and Microelectronics
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:
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Kharkov, Ukraine

Journal Impact Factor: 0.86*
2019: Volume 45, 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.

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Institute of Applied Physics and Computational Mathematics, China
2019: Volume 4, 6 issues
E-ISSN: 2468-080X
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### Wenner Collection Arrives at AIP

On May 24, 2018, the Wenner Collection of rare books and manuscripts arrived at the Niels Bohr Library & Archives. This collection consists of over 3,800 volumes that were curated over the past 25 years by David Wenner, highlighting important discoveries in the physical sciences.

Explore more about the rare collection by visiting [https://www.aip.org/physics-heritage-and-promise](https://www.aip.org/physics-heritage-and-promise). To learn about the books’ arrival and to watch a video on the plans for activating the collection, visit [aip.org/physics-heritage-promise](http://aip.org/physics-heritage-promise).