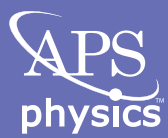


2021 PHYSICAL REVIEW JOURNALS CATALOG



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Founded in 1899, the American Physical Society (APS) strives to advance and diffuse the knowledge of physics. In support of this objective, APS publishes primary research and review journals, five of which are open access.

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PHYSICAL REVIEW LETTERS (PRL)

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PRL is the world's premier physics letter journal and APS's flagship publication. Since 1958 it has contributed to APS's mission to advance and diffuse the knowledge of physics by publishing seminal research by Nobel Prize winners and other distinguished researchers in all fields of physics.

PRL publishes short, high-quality reports of the most influential developments and transformative ideas in the full arc of fundamental and interdisciplinary physics. It is distinctive in the depth and breadth of its coverage of the broad subfields of physics. PRL welcomes manuscripts that report on pivotal advances that will influence the research of others.

Sections include:

- General physics, including statistical and quantum mechanics and quantum information
- Gravitation, astrophysics, and cosmology
- Elementary particles and fields
- Nuclear physics
- Atomic, molecular, and optical physics
- Nonlinear dynamics, fluid dynamics, and classical optics
- Plasma and beam physics
- Condensed matter and materials physics
- Polymers, soft matter, biological, climate, and interdisciplinary physics, including networks

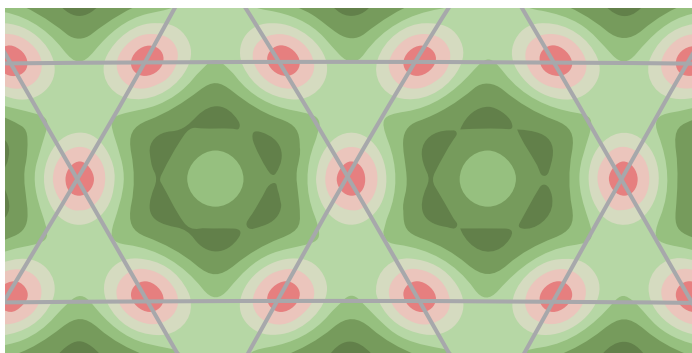
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Mean-Field Scaling of the Superfluid to Mott Insulator Transition in a 2D Optical Superlattice [Claire K. Thomas *et al.*, *Phys. Rev. Lett.* **119**, 100402 (2017)].

PHYSICAL REVIEW X (PRX)

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PRX is an online-only, fully open access journal that places a high value on innovation, quality, and long-term impact. It publishes a select set of papers from all areas of pure, applied, and interdisciplinary physics that have the potential to influence current and future research.

Now celebrating 10 years of open access publishing, PRX showcases research in core areas of physics that achieves breakthroughs in technology, experiment, and theory. PRX also publishes creative, impactful research that bridge physics with other disciplines. Renowned for its personalized editorial process, PRX brings together authors, editors, and referees to guide each article through the selection process and produce the best possible outcome.

PRX covers the full spectrum of subject areas in physics and pays particular attention to innovative interdisciplinary research including:

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- Biological Physics
- Chemical Physics
- Complex Systems
- Computational Physics
- Condensed Matter Physics
- Cosmology
- Electronics
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The newest title in the *Physical Review* family of journals, *PRX Quantum* welcomes manuscripts on all topics relevant to the diverse multidisciplinary quantum information science and technology research communities spanning physics, computer science, mathematics, chemistry, materials, engineering, and technology. *PRX Quantum* is currently accepting manuscript submissions, and APS is paying all article publication charges (APCs) until 2022. Research coverage in the journal comprises: fundamental and applied; theoretical and experimental, including significant advances in methods and instrumentation; and interdisciplinary and emerging areas.

Subject areas include, but are not limited to:

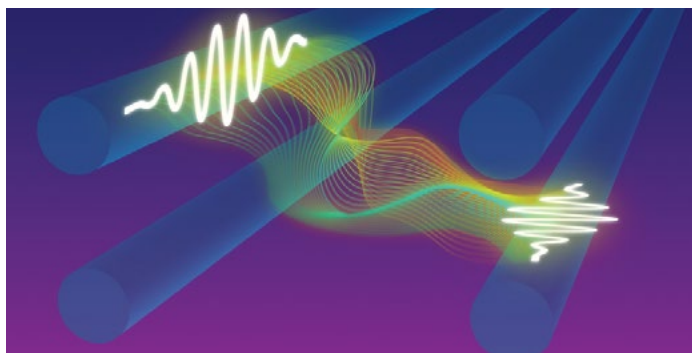
- Fundamental concepts in quantum information
- Quantum computation and simulation
- Quantum software: algorithms, protocols, and code
- Quantum hardware: materials, engineering and technologies
- Quantum error correction
- Quantum gates
- Quantum machine learning and intelligence
- Quantum communication and cryptography
- Quantum networks, quantum repeaters, and quantum memories
- Quantum control
- Quantum metrology and sensing
- Quantum architectures and implementations
- Quantum thermodynamics
- Quantum effects in biological systems
- Quantum algorithms for chemical calculations
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- Hybrid quantum systems and interconnects
- Relativistic quantum information

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REVIEWS OF MODERN PHYSICS (RMP)

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RMP is the world's premier physics review journal and the most highly cited *Physical Review* publication. Written by leading international researchers, RMP's in-depth essays provide outstanding coverage of a topic and give context and background for current research trends.

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Established in 1929, RMP provides an unrivaled venue for authoritative Reviews and Colloquia in all fields of physics. Review articles present the current status of a given topic, with historical background, a critical distillation of research progress, and a summary of possible future developments. Colloquia communicate results at the frontiers of physics, which may impact several subfields.

RMP covers the full range of applied, fundamental, and interdisciplinary physics research topics:

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- Soft matter physics
- Plasma physics and fusion
- Particle-beam physics
- Nuclear physics
- High-energy physics, particles and fields
- Astrophysics
- General physics
- Mathematical physics
- Quantum information
- Computational physics

EDITORS

Randall Kamien
University of Pennsylvania

Debbie Brodbar
American Physical Society

A. H. Castro Neto
National University of Singapore





Experimental soft-matter science [Sidney R. Nagel, *Rev. Mod. Phys.* **89**, 025002, (2017)].

PHYSICAL REVIEW A (PRA)

covering atomic, molecular, and optical physics and quantum information

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Journal
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PRA publishes important developments in the rapidly evolving areas of atomic, molecular, and optical (AMO) physics, quantum information, and related fundamental concepts.

Established in 1970, PRA is the journal of choice to publish research in AMO physics and quantum information. Bridging these traditional and emerging research areas, PRA's authors and readers benefit from the widespread synergies between these fields.

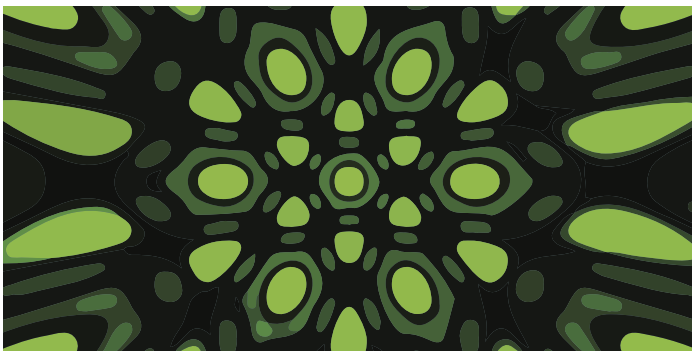
PRA covers atomic, molecular, and optical physics, foundations of quantum mechanics, and quantum information, including:

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- Quantum technologies
- Atomic and molecular structure and dynamics; high-precision experiments
- Light-induced processes in atomic-scale systems
- Ultracold systems and matter waves
- Photonics, nonlinear optics, and optomechanics
- Quantum optics

EDITORS

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Thomas Pattard
American Physical Society





Optical properties of honeycomb photonic structures [Artem D. Snel'nik *et al.*, Phys. Rev. A **95**, 063837 (2017)].

PHYSICAL REVIEW B (PRB)

covering condensed matter and materials physics

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Journal
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PRB is the world's largest dedicated physics journal and most highly cited journal in condensed matter physics, PRB provides outstanding depth and breadth of coverage, combined with unrivaled context and background for ongoing research by scientists worldwide.

Since 1970, PRB has provided an authoritative venue for high-quality work in established and emerging topics in condensed matter research, making it an essential resource for the field.

PRB covers the full range of condensed matter, materials physics, and related subfields, including:

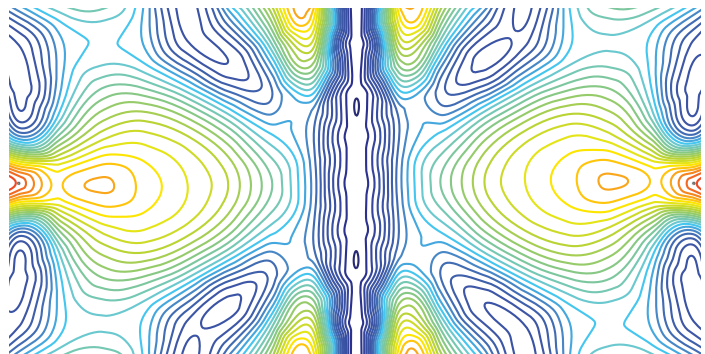
- Structure and phase transitions
- Ferroelectrics and multiferroics
- Disordered systems and alloys
- Magnetism
- Superconductivity
- Electronic structure, photonics, and metamaterials
- Semiconductors and mesoscopic systems
- Surfaces, nanoscience, and 2D materials
- Topological states of matter

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Yonko Millev
American Physical Society




Phonovoltaic. III. Electron-phonon coupling and figure of merit of graphene:BN [Corey Melnick and Massoud Kaviani, *Phys. Rev. B* **94**, 245412 (2016)].

PHYSICAL REVIEW C (PRC)

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Journal
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PRC is a leading journal in theoretical and experimental nuclear physics, publishing more than two-thirds of the research literature in the field.

Established in 1970, PRC is a trusted, essential resource for nuclear physics researchers, nuclear data aggregators and evaluators, and others who use nuclear science research results. PRC provides a collegial and proactive environment for researchers looking to publish in the *Physical Review* journals.

PRC covers experimental and theoretical results in all aspects of nuclear physics, including:

- Nucleon-nucleon interaction, few-body systems
- Nuclear structure
- Nuclear reactions
- Relativistic nuclear collisions
- Hadronic physics and QCD
- Electroweak interaction, symmetries
- Nuclear astrophysics

EDITORS

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Los Alamos National Laboratory

Christopher Wesselborg
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Shape evolution and shape coexistence in Pt isotopes: Comparing interacting boson model configuration mixing and Gogny mean-field energy surfaces [J. E. García-Ramos *et al.*, *Phys. Rev. C* **89**, 034313 (2014)].

PHYSICAL REVIEW D (PRD)

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PRD is a leading journal in elementary particle physics, field theory, gravitation, and cosmology and is one of the top-cited journals in high-energy physics.

Launched in 1970, PRD is one of the longest established journals dedicated to serving the high-energy physics community.

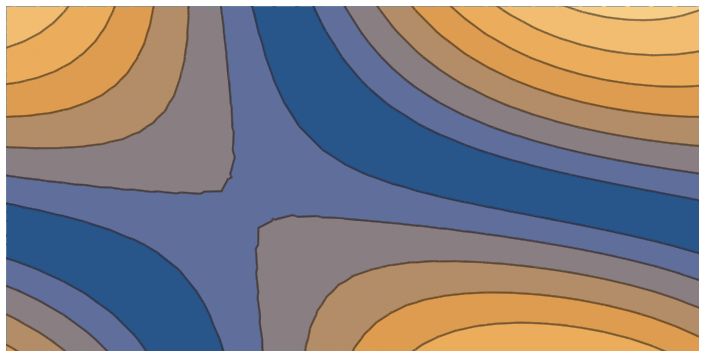
PRD covers experimental and theoretical results in all aspects of particle physics, field theory, gravitation and cosmology, including:

- Particle physics experiments
- Electroweak interactions
- Strong interactions
- Lattice field theories, lattice QCD
- Beyond the standard model physics
- Phenomenological aspects of field theory, general methods
- Gravity, cosmology, cosmic rays
- Astrophysics and astroparticle physics
- General relativity
- Formal aspects of field theory, field theory in curved space
- String theory, quantum gravity, gauge/gravity duality

EDITORS

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Impact of correlated magnetic noise on the detection of stochastic gravitational waves: Estimation based on a simple analytical model [Yoshiaki Himemoto and Atsushi Taruya, *Phys. Rev. D* **96**, 022004 (2017)].

PHYSICAL REVIEW E (PRE)

covering statistical, nonlinear, biological, and soft matter physics

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Journal
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PRE is a broad and interdisciplinary journal focusing on collective phenomena of many-body systems. As the premier journal in the interrelated areas of statistical, nonlinear, biological, and soft matter physics, PRE covers recent developments in complex fluids, polymers, liquid crystals, and granular materials.

Established in 1993, PRE is distinguished by the breadth of the subject areas it covers and its wide distribution and readership. PRE provides an authoritative venue for high-quality work in traditional and emerging research areas, making it an essential resource for multiple disciplines.

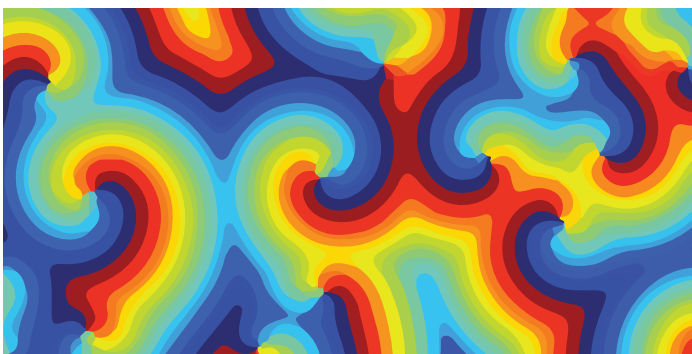
PRE covers a wide range of traditional and interdisciplinary physics topics, including:

- Statistical physics
- Nonlinear dynamics and chaos
- Networks and complex systems
- Biological physics
- Polymers
- Colloids, complex fluids, and active matter
- Liquid crystals
- Films and interfaces
- Granular materials
- Solid mechanics
- Fluid dynamics
- Plasma physics
- Computational physics

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Weakly and strongly coupled Belousov-Zhabotinsky patterns [Stephan Weiss and Robert D. Deegan, *Phys. Rev. E* **95**, 022215 (2017)].

PHYSICAL REVIEW RESEARCH (PRResearch)

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PRResearch complements other titles in the *Physical Review* journals portfolio by offering an option for authors across the physics community who value and trust the publishing experience and quality of *Physical Review* journals, and also want or need to publish in a fully open access publication. Debuting its first published research in August 2019, PRResearch has grown to over 1,500 published Open Access articles from the full spectrum of research topics of interest to the physics community. Research coverage in the journal comprises: fundamental and applied; theoretical and experimental, including technical and methodological advances; and interdisciplinary and newly emerging areas. Subject areas include, but are not limited to:

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- artificial intelligence
- astronomy and astrophysics
- atomic and molecular physics
- biological physics
- chemical physics
- climate science
- complex systems and networks
- computational and data intensive science
- condensed matter physics
- cosmology
- Earth and environmental sciences
- electronics and devices
- energy research
- fluid mechanics
- geophysics
- gravitation
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- information theory
- interdisciplinary research
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- nonlinear dynamics
- nuclear physics
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- optoelectronics
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- quantum materials
- quantum information and technology
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- semiconductor physics and technology
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- spintronics
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- surface science
- topological physics
- zero-, one-, and two-dimensional materials

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PRAB covers the full spectrum of accelerator science, technology, and applications, including subsystems, component technologies, beam dynamics, and the design, operation, and improvement of scientific and industrial accelerators of all types.

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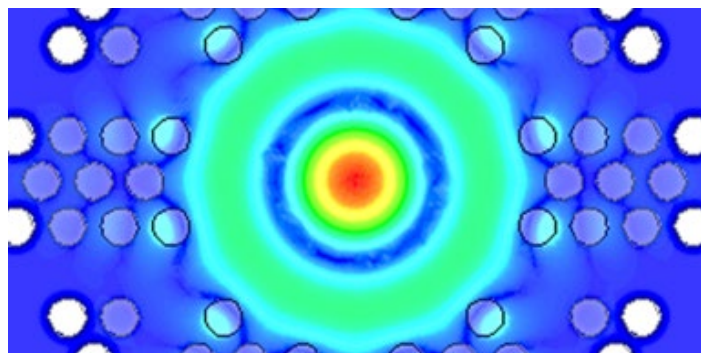
PRAB covers all topics in accelerator science, applications, and technology, including:

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- Synchrotron radiation and freeelectron lasers
- High-energy accelerators and colliders
- New acceleration techniques
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- Magnet calculations and technology
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- Particle and radiation detectors
- Targets, collimators, and beam dumps
- Accelerator materials and surfaces
- Cryogenics and vacuum technology
- Particle-beam sources
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- Low-energy, multiple-particle dynamics
- Relativistic, multiple-particle dynamics
- Material-beam interaction
- Computing and algorithms

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High power experimental studies of hybrid photonic band gap accelerator structures [JieXi Zhang *et al.*, *Phys. Rev. Accel. Beams* **19**, 081304 (2016)].

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PRApplied publishes high-quality papers that bridge the gap between engineering and physics, and between current and future technologies. PRApplied welcomes papers from both the engineering and physics communities, in academia and industry.

PRApplied publishes research with strong and clear ties to applications, and that offers fresh insight into physical phenomena. The editors encourage scientists and engineers engaged in applied research to consider this journal their home for stimulating, scholarly publications and discussion.

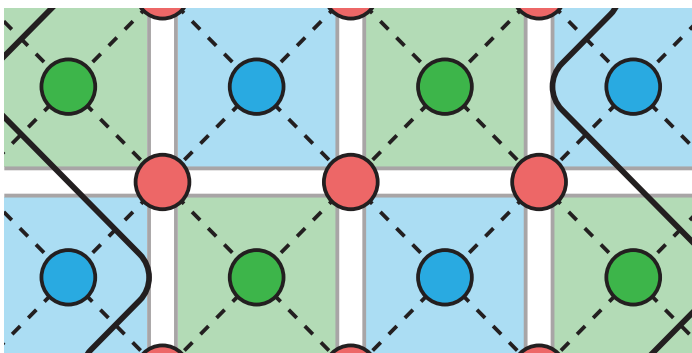
PRApplied focuses on topics including:

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- Electronics
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- Industrial physics
- Magnetism and spintronics
- Metamaterials
- Microfluidics
- Nonlinear dynamics and pattern formation in natural or manufactured systems
- Nanoscience and nanotechnology
- Optics, optoelectronics, photonics, and photonic devices
- Quantum information processing, both algorithms and hardware
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Scalable Quantum Circuit and Control for a Superconducting Surface Code [R. Versluis *et al.*, *Phys. Rev. Applied* **8**, 034021 (2017)].

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PRFluids is dedicated to publishing innovative research that significantly advances the fundamental understanding of fluid dynamics. PRFluids embraces both traditional fluid dynamics topics and newer areas.

PRFluids is strongly supported by APS's Division of Fluid Dynamics (DFD). The DFD's François Frenkiel Award for fluid mechanics is awarded to a young investigator published in PRFluids to recognize their contribution to the field. PRFluids also publishes invited papers from the DFD meeting, and winning entries from the Gallery of Fluid Motion.

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- Convection Drops, bubbles, capsules and vesicles
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- Geophysical, geological, urban and ecological flows
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- Vortex dynamics
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Optimal initial condition of passive tracers for their maximal mixing in finite time [Mohammad Farazmand, Phys. Rev. Fluids **2**, 054601 (2017)].

PHYSICAL REVIEW MATERIALS (PRMaterials)

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PRMaterials is a broad-scope journal publishing high-quality research on materials. The journal serves the multidisciplinary community working on the prediction, synthesis, processing, structure, properties, and modeling of a wide range of materials.

PRMaterials provides a publication and reference venue to the expanding community of physicists, materials scientists, chemists, engineers, and scientists in related disciplines, carrying out high-quality, original research in materials.

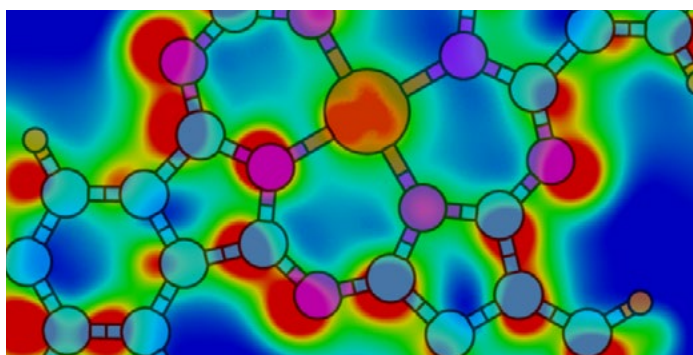
PRMaterials covers a wide range of topics on materials research, including:

- Prediction, synthesis, design, and modeling of materials
- Crystal growth, film growth, crystallization, and kinetics
- Magnetic, ferroelectric, multiferroic, and superconducting materials
- Thin films, interfaces, surfaces, and heterostructures
- Two-dimensional materials
- Metamaterials and plasmonic, optical, and photonic materials
- Materials for energy harvesting, storage, and generation
- Glasses and amorphous materials
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- Electronic materials, semiconductors, metals, and dielectrics, including organics
- Topological materials
- Mechanical properties, materials structure, and phase transformations
- Nanostructures, nanocomposites, and nanomaterials

EDITORS

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Electronic charge rearrangement at metal/organic interfaces induced by weak van der Waals interactions [Nicola Ferri *et al.*, *Phys. Rev. Materials* **1**, 026003 (2017)].

PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH (PRPER)

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Journal
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PRPER covers the full array of experimental and theoretical research relating to the teaching and learning of physics and astronomy. PRPER is the only fully open access journal for physics education research.

PRPER is sponsored jointly by APS, the American Association of Physics Teachers, and the APS Forum on Education. PRPER publishes detailed research articles, review articles, and replication studies. Descriptions of the development and use of new assessment tools, presentation of research.

PRPER covers all educational levels, from elementary through graduate education. All topics in experimental and theoretical physics education research are accepted, including, but not limited to:

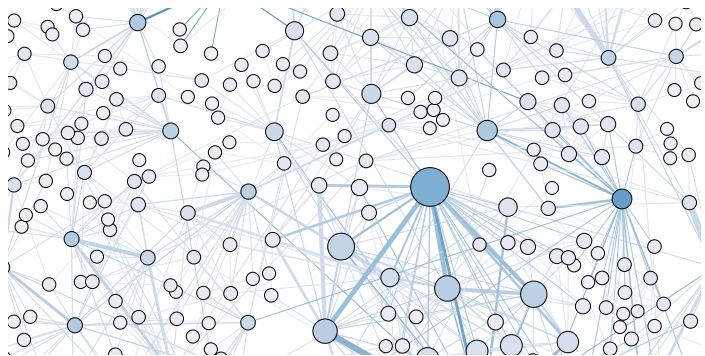
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- Student participation
- Faculty and teacher professional development

EDITORS

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Linking behavior in the physics education research coauthorship network
[Katharine A. Anderson et al., *Phys. Rev. Phys. Educ. Res.* **13**, 010121 (2017)].

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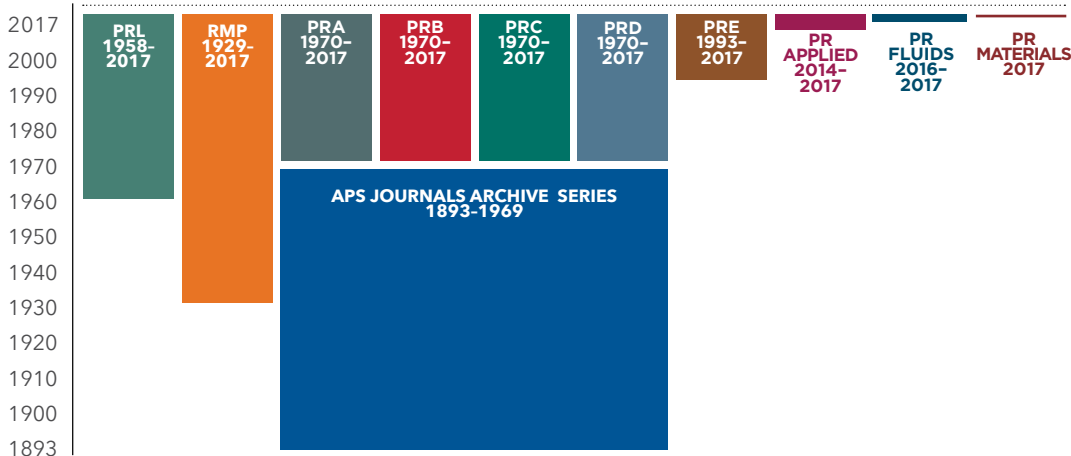
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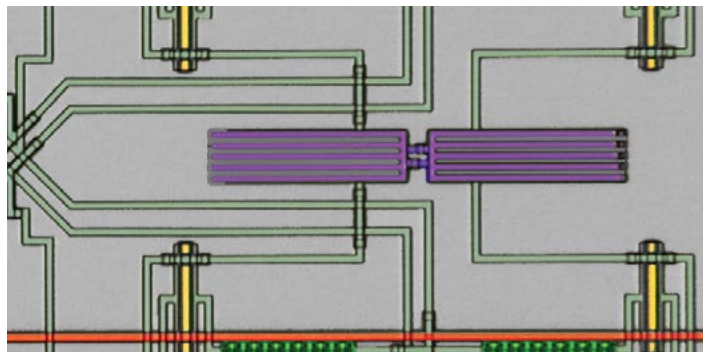


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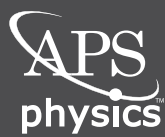
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