

Physics & Astronomy Journals

220th Anniversary

■ Annalen der Physik

2010. Volume 19, 12 issues.
Print ISSN: 0003-3804
Online ISSN: 1521-3889

www.ann-phys.org



Founded in 1790, *Annalen der Physik* is one of the most renowned physics journals with a 220 year tradition of excellence. *Annalen der Physik* has always been the home of innovative papers from the best and brightest minds in the field, such as Albert Einstein, Max Planck, and many others. It still publishes peer-reviewed original papers in the areas of experimental, theoretical, applied, and mathematical physics and related areas.

Hot Papers

- ▶ **A new look at Bell's inequalities and Nelson's theorem**
B. Schulz (2009, 18, 231)
- ▶ **The mathematical pendulum from Gauß via Jacobi to Riemann**
W. Dittrich (2009, 18, 381)

■ Fortschritte der Physik Progress of Physics

2010. Volume 58, 10 issues.
Print ISSN: 0015-8208
Online ISSN: 1521-3978

www.fp-journal.org



Fortschritte der Physik – Progress of Physics is devoted to the theoretical and experimental studies of fundamental constituents of matter and their interactions e. g. elementary particle physics, classical and quantum field theory, gravitation and cosmology, thermodynamics and statistics, nuclear physics, and nonlinear dynamics. Generally the papers are review articles, but original papers of general interest are also published.

Hot Papers

- ▶ **Holographic quark gluon plasma with flavor**
M. Kaminski (2009, 57, 3)
- ▶ **How to extend quantum experiments**
M. Arndt, M. Aspelmeyer, A. Zeilinger (2009, 57, 1153)
- ▶ **Inflation and string cosmology**
A. Linde (2009, 57, 418)

physica status solidi – Solid State at Its Best

- **pss a – applications and materials science**
- **pss b – basic solid state physics**
- **pss c – current topics in solid state physics**

physica status solidi journals represent the largest European publication in solid state physics. The *pss journals* offer the fastest publication of new, important and strictly peer-reviewed results in all fields of solid state physics and materials science, from basic science to applications and devices.



pss a

2010. Volume 207, 12 issues.
Print ISSN: 1862-6300
Online ISSN: 1862-6319

www.pss-a.com



pss b

2010. Volume 247, 12 issues.
Print ISSN: 0370-1972
Online ISSN: 1521-3951

www.pss-b.com

ONLINE ONLY



pss c

2010. Volume 7, 12 issues.
Online ISSN: 1610-1642
Online only

www.pss-c.com

■ pss RRL – Rapid Research Letters

2010. Volume 4, 12 issues.
Print ISSN: 1862-6254
Online ISSN: 1862-6270

www.pss-rapid.com



pss RRL is the fastest peer-reviewed publication medium in solid state physics.

The journal communicates important findings with a high degree of novelty and need for express publication, as well as other results of immediate interest to the solid state physics and materials science community.

It offers extremely fast publication times: typically less than 14 days from submission to online publication. This is definitely a world record for Letter journals in solid state physics!

Hot Papers

- ▶ **Epitaxial graphene: the material for graphene electronics**
M. Sprinkle et al. (2009, 3, A91)
- ▶ **Nanowire manipulation on surfaces through electrostatic self-assembly and magnetic interactions**
Martin G. Bellino, Ernesto J. Calvo, Gabriel J. Gordillo (2009, 3, 1)

■ Small

2010. Volume 6, 24 issues.
Print ISSN 1613-6810
Online ISSN 1613-6829

www.small-journal.com



Small provides the very best forum for experimental and theoretical studies of fundamental and applied interdisciplinary research at the micro- and nanoscales.

Read an attractive mix of peer-reviewed Communications, Reviews, Concepts, Highlights, Essays, and Full Papers.

Hot Papers

- ▶ **Nanoscale Forces and Their Uses in Self-Assembly**
Kyle J. M. Bishop et al. (2009, 5, 1600)
- ▶ **Core/Shell Semiconductor Nanocrystals**
Peter Reiss, Myriam Protière, Liang Li (2009, 5, 154)
- ▶ **Single Chain Epidermal Growth Factor Receptor Antibody Conjugated Nanoparticles for in vivo Tumor Targeting and Imaging**
Lily Yang et al. (2009, 5, 235)



▶ www.interscience.wiley.com/physicsjournals

▶ www.astronomy.wiley-vch.de



WILEY-BLACKWELL

Journal of Biophotonics

2010. Volume 3, 12 issues.

Print ISSN: 1864-063X

Online ISSN: 1864-0648

www.biophotonics-journal.org

OPT-IN TO COMPLIMENTARY
ONLINE ACCESS



The *Journal of Biophotonics* publishes cutting edge research on interactions between light and biological material. As such, this new journal is highly interdisciplinary, covering research in the fields of physics, chemistry, biology and medicine. The scope extends from basic research to clinical applications.

Don't miss the opportunity to receive complimentary online access throughout 2010!

Ask your librarian to register at www.interscience.wiley.com/newjournals

Hot Papers

- ▶ **Disease recognition by infrared and Raman spectroscopy**
Christoph Krafft et al. (2009, 2, 13)
- ▶ **In vivo optical monitoring of tissue pathologies and diseases with vibrational contrast**
Steve Bégin et al. (2009, 2, 632)
- ▶ **Multiplexed optical pathogen detection with lab-on-a-chip devices**
Holger Schulze et al. (2009, 2, 199)

Laser & Photonics Reviews

2010. Volume 4, 6 issues.

Print ISSN: 1863-8880

Online ISSN: 1863-8899

www.lpr-journal.org



Laser & Photonics Reviews is an international journal which covers the current range of laser science and photonics, both theoretical and experimental, from recent research to specific developments and novel applications.

Every issue contains invited review articles, topical reports, invited articles based on conference plenary talks and concise conference reports.

Hot Papers

- ▶ **Third generation photovoltaics**
G. F. Brown, J. Wu (2009, 3, 394)
- ▶ **Ultra-fast nano-optics**
P. Vasa et al. (2009, 3, 483)
- ▶ **Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification**
M. Heilemann et al. (2009, 3, 180)

Laser Physics Letters

2010. Volume 7, 12 issues.

Print ISSN: 1612-2011

Online ISSN: 1612-202X

www.lphys.org



Laser Physics Letters is the international journal for original research papers and brief reviews on all aspects of laser science.

Hot Papers

- ▶ **X-Ray laser: past, present, and future**
S. Suckewer, P. Jaeglé (2009, 6, 411)
- ▶ **Application of gold nanoparticles as contrast agents in confocal laser scanning microscopy**
A. Lemelle et al. (2009, 6, 71)

X-Ray Spectrometry

2010. Volume 39, 6 issues.

Print ISSN: 0049-8246

Online ISSN: 1097-4539

www.interscience.wiley.com/journal/xrs



A global forum that is uniquely dedicated to publishing original research and review papers on the theory and application of x-ray spectrometry.

Coverage includes advances in techniques, methods and equipment, as well as both wavelength and energy dispersion systems together with a range of data handling methods, from the most simple to very sophisticated software programs.

Hot Papers

- ▶ **New methodology for sulfur analysis in geological samples by WD-XRF spectrometry**
M. F. Gazulla et al. (2009, 39, 3)
- ▶ **Trace element mapping of a single cell using a hard x-ray nanobeam focused by a Kirkpatrick-Baez mirror system**
S. Matsuyama (2009, 39, 89)

Surface and Interface Analysis

2010. Volume 42, 13 issues.

Print ISSN: 0142-2421

Online ISSN: 1096-9918

www.interscience.wiley.com/journal/sia



Leading the way in quality research on surface analysis, this international journal publishes latest communications on the development and application of techniques for the characterization of surfaces, interfaces and thin films.

Hot Papers

- ▶ **Simple poly(dimethylsiloxane) surface modification to control cell adhesion**
Min-Hsien Wu (2009, 41, 11)
- ▶ **A comparison of PCA and MAF for ToF-SIMS image interpretation**
Alex Henderson, John S. Fletcher, John C. Vickerman (2009, 41, 666)

International Journal of Quantum Chemistry

2010. Volume 110, 15 issues.

Print ISSN: 0020-7608

Online ISSN: 1097-461X

www.interscience.wiley.com/qua



Covers a broad scope of advanced information on quantum mechanics, including fundamental concepts, mathematical structure, and applications to the study of atoms, molecules, solids, and quantum biology. Readers get a perspective on how all aspects of quantum interact and how new ideas may broadly affect diverse research efforts. Also publishes the proceedings of the Sanibel Symposium, as well as other international symposia.

Special Issues

- ▶ **7th European Conference on Computational Chemistry (EUCC-7) (2010, 110, 277)**
- ▶ **Proceedings of the NATO ARW "Molecular Self-Organization in Micro-, Nano-, and Macro-Dimensions: From Molecules to Water, to Nanoparticles, DNA and Proteins" (2010, 110, 1)**
- ▶ **Proceedings from the Sixth Congress of the International Society for Theoretical Chemical Physics (ISTCP-VI) (2009, 109, 3143)**

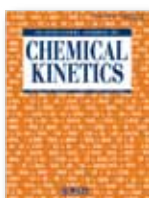
International Journal of Chemical Kinetics

2010. Volume 42, 12 issues.

Print ISSN: 0538-8066

Online ISSN: 1097-4601

www.interscience.wiley.com/kin



One of the foremost archival journals in the world today, publishing original research on quantitative relationships between molecular structure and chemical activity, including organic/inorganic chemistry and reaction mechanisms, surface, condensed phase, polymer reaction, and biochemical kinetics.

Hot Papers

- ▶ **Kinetics and mechanism of the oxidation of some organic sulfides by morpholinium chlorochromate**
Neha Malani, Manju Baghmar, Pradeep K. Sharma (2009, 41, 65)
- ▶ **Kinetics and mechanism of hydrolysis of N-(2'-hydroxyphenyl)phthalamic acid (1) and N-(2'-methoxyphenyl)phthalamic Acid (2) in a highly alkaline medium**
Yoke-Leng Sim et al. (2009, 41, 1)

ChemPhysChem

2010. Volume 11, 18 issues.
Print ISSN: 1439-4235
Online ISSN: 1439-7641

www.chemphyschem.org



ChemPhysChem, a European journal with a truly international readership, offers a unique combination of chemical physics and physical chemistry papers of relevance to chemists, physicists, biologists and material scientists.

Hot Papers

- ▶ **Fluorescent Probes and Delivery Methods for Single-Molecule Experiments**
Konstantinos Lymperopoulos et al. (2010, 11, 43)
- ▶ **Bandgap Modulation in Efficient *n*-Thiophene Absorbers for Dye Solar Cell Sensitization**
Eva M. Barea et al. (2010, 11, 245)

Journal of Polymer Science, Part B: Polymer Physics

2010. Volume 48, 24 issues.
Print ISSN: 0887-6266
Online ISSN: 1099-0488

www.interscience.wiley.com/journal/jpolb



Journal of Polymer Science, Part B: Polymer Physics details contemporary research on all aspects of polymer physics. It is the definitive source for research reports in the physics, mechanics and physical chemistry of polymeric materials. Some issues contain Highlight Articles, which are invited review articles that are freely available to all non-subscribing users, intended to highlight an evolving area in the field of polymer physics.

Hot Papers

- ▶ **Functionalized graphene sheet – Poly(vinylidene fluoride) conductive nanocomposites**
Seema Ansari, Emmanuel P. Giannelis (2009, 47, 888)
- ▶ **Structure and properties of the nanocomposite films of chitosan reinforced with cellulose whiskers**
Qian Li, Jinping Zhou, Lina Zhang (2009, 47, 1069)

Macromolecular Chemistry and Physics

2010. Volume 211, 24 issues.
Print ISSN: 1022-1352
Online ISSN: 1521-3935

www.mcp-journal.com



Macromolecular Chemistry and Physics combines the longest tradition in the field of polymer science with the publication of newest results, latest trends, and their critical evaluation.

It offers an attractive mixture of high-quality Full Papers, Talents, Trends, and Highlights in all areas of polymer science – from chemistry to physical chemistry and materials science. The journal also includes Book Reviews, Essays, Macromolecular News, and Conference Reports.

Hot Papers

- ▶ **Well-Defined Crystalline TiO₂ Nanoparticles Generated and Immobilized on a Colloidal Nanoreactor**
Yan Lu et al. (2009, 210, 377)
- ▶ **Has Click Chemistry Lead to a Paradigm Shift in Polymer Material Design?**
Christopher Barner-Kowollik, Andrew J. Inglis (2009, 210, 987)

Plasma Processes and Polymers

2010. Volume 7, 12 issues.
Print ISSN: 1612-8850
Online ISSN: 1612-8869

www.plasma-polymers.org



Plasma Processes and Polymers is one of the leading journals covering all aspects of fundamental and applied research in physics, materials science, chemistry, and engineering in the areas of low-temperature plasma sources and plasma-based treatments.

Hot Papers

- ▶ **Nanosecond Pulsed Plasma Dental Probe**
Chunqi Jiang et al. (2009, 6, 479)
- ▶ **Computer Modeling of Plasmas and Plasma-Surface Interactions**
Annemie Bogaerts et al. (2009, 6, 295)

50th Anniversary

Contributions to Plasma Physics

2010. Volume 50, 10 issues.
Print ISSN: 0863-1042
Online ISSN: 1521-3986

www.cpp-journal.com



The journal is devoted to original contributions and reviews in all fields of basic and applied plasma physics, such as elementary processes in plasmas, physics of low- and high temperature plasmas, plasma theory, diagnostics and technology, numerical simulation of plasmas and modeling, astrophysical plasmas, and relativistic plasmas and laser-plasma interaction.

Hot Papers

- ▶ **Basic Processes in Complex (Dusty) Plasmas: Charging, Interactions, and Ion Drag Force**
S. Khrapak, G. Morfill (2009, 49, 148)
- ▶ **Some Aspects of Reactive Complex Plasmas**
J. Berndt et al. (2009, 49, 107)

VIP – Vakuum in Forschung und Praxis

2010. Volume 22, 6 issues.
Print ISSN: 0947-076X
Online ISSN: 1522-2454

www.vip-journal.de



Read the most popular articles in the wide spectrum and variety in vacuum technology, surfaces and thin film technologies in *VIP – Vakuum in Forschung und Praxis*.

Due to the high quality of the papers, mainly written in German, get the top articles in the English supplement *Vacuum's Best*.

Hot Papers

- ▶ **Rotatable Magnetron Sputter Technology for Large Area Glass and Web Coating**
Anja Blondeel, Peter Persoone, Wilmert De Bosscher (2009, 21, 6)
- ▶ **HIPIMS Power for Improved Thin Film Coatings**
Dirk Ochs (2008, 20, 34)

Crystal Research and Technology

2010. Volume 45, 12 issues.
Print ISSN: 0232-1300
Online ISSN: 1521-4079

www.crt-journal.org



Crystal Research and Technology is an international journal covering all aspects of modern crystal growth phenomena and examining research within experimental, industrial, theoretical, and biological crystallography.



Also of interest
to Crystallography

Acta Crystallographica journals
▶ www.iucr.org

Hot Papers

- ▶ **Low temperature hydrothermal growth and optical properties of ZnO nanorods**
J. H. Yang et al. (2009, 44, 87)
- ▶ **Synthesis, structural and optical properties of well dispersed anatase TiO₂ nanoparticles by non-hydrothermal method**
P. Dennis Christy et al. (2009, 44, 484)
- ▶ **Controlled synthesis of Cu₂O cubic and octahedral nano- and microcrystals**
Zhenghua Wang (2009, 44, 624)

ONLINE ONLY

■ Atmospheric Science Letters

2010. Volume 11, 4 issues.
Online ISSN: 1530-261X

www.interscience.wiley.com/asl



Atmospheric Science Letters is a journal of the Royal Meteorological Society.

This online only journal offers short contributions in the field of atmospheric and closely related sciences.

Now covered by:
Current Contents
– Physical Chemical and Earth Sciences
and Science Citation Index Expanded

■ Quarterly Journal of the Royal Meteorological Society

2010. Volume 136, 8 issues.
Online ISSN: 0035-9009

www.interscience.wiley.com/qj



The *Quarterly Journal of the Royal Meteorological Society* is acknowledged as one of the world's leading meteorological journals. It contains papers, notes and correspondence by leading meteorologists presenting the results of their research.

- Fast Publication
- Colour images £250 for the first page and £150 each page thereafter
- Forthcoming AMMA special issue on African Monsoon

Hot Papers

- ▶ **The role of air turbulence in warm rain initiation**
Lian-Ping Wang, Wojciech W. Grabowski (2009, 10, 1)
- ▶ **Comparison of 850-hPa relative humidity between ERA-40 and NCEP/NCAR re-analyses: detection of suspicious data in ERA-40**
Aurélien Ben Daoud et al. (2009, 10, 43)

Hot Papers

- ▶ **Synoptic scale wave breaking and its potential to drive NAO-like circulation dipoles: A simplified GCM approach**
Torben Kunz, Klaus Fraedrich, Frank Lunkeit (2009, 135, 1)
- ▶ **Meridional energy transport in the coupled atmosphere-ocean system: scaling and numerical experiments**
Geoffrey K. Vallis, Riccardo Farneti (2009, 135, 1643)

Astronomy Journals

▶ www.astronomy.wiley-vch.de

■ Astronomical Notes Astronomische Nachrichten

2010. Volume 331, 10 issues.
Print ISSN: 0004-6337
Online ISSN: 1521-3994

www.an-journal.org



Founded in 1821 by H. C. Schumacher, *Astronomical Notes – Astronomische Nachrichten* is one of the world's leading journals in astronomy with more than 180 years tradition. Famous astronomical discoveries and important papers in astronomy and astrophysics published in more than 300 volumes of the journal give an outstanding representation of the progress of astronomical research.

Hot Papers

- ▶ **Kepler, Galileo, the telescope and its consequences**
J. Hamel (2009, 330, 526)
- ▶ **RoboNet-II: Follow-up observations of microlensing events with a robotic network of telescopes**
Y. Tsapras et al. (2009, 330, 4)

■ Monthly Notices of the Royal Astronomical Society

2010. Volumes 401 – 409, 36 issues.
Print ISSN: 0035-8711
Online ISSN: 1365-2966

www.blackwellpublishing.com/mnr



Monthly Notices of the Royal Astronomical Society is one of the world's leading primary research journals in astronomy and astrophysics, as well as one of the longest established. It publishes the results of original research in positional and dynamical astronomy, astrophysics, radio astronomy, cosmology, space research and the design of astronomical instruments.

Hot Papers

- ▶ **A spectroscopic survey of dwarf galaxies in the Coma cluster: stellar populations, environment and downsizing**
Russell J. Smith et al. (2009, 392, 1265)
- ▶ **The death of massive stars – I. Observational constraints on the progenitors of Type II-P supernovae**
S. J. Smartt et al. (2009, 395, 1409)

ONLINE ONLY

■ Monthly Notices of the Royal Astronomical Society: Letters

2010. Volumes 401 – 409, 9 issues.

www.blackwellpublishing.com/mnl



For papers that merit urgent publication, *Monthly Notices Letters*, the online section of *Monthly Notices of the Royal Astronomical Society*, publishes short, topical and significant research in all fields of astronomy.

Hot Papers

- ▶ **Stability of relativistic jets from rotating, accreting black holes via fully three-dimensional magnetohydrodynamic simulations**
Jonathan C. McKinney, Roger D. Blandford (2009, 394, L126)
- ▶ **The XMM–Newton long look of NGC 1365: uncovering of the obscured X-ray source**
G. Risaliti et al. (2009, 393, L1)

■ Astronomy & Geophysics

2010. Volume 51, 6 issues.
Print ISSN: 1366-8781
Online ISSN: 1468-4004

www.blackwellpublishing.com/aag



Astronomy & Geophysics publishes news and reviews on a range of subjects including: astronomy, astrophysics, cosmology, planetary science, solar-terrestrial physics, global and regional geophysics and the history of these topics.

Hot Papers

- ▶ **The Tunguska impact event and beyond**
Bill Napier, David Asher (2009, 50, 1.18)
- ▶ **A new perceived reality: Thomas Harriot's Moon maps**
Allan Chapman (2009, 50, 1.27)
- ▶ **National Parks for the dark**
Sue Bowler (2009, 50, 1.04)

New to WB in 2010!

■ Meteoritics & Planetary Science

2010. Volume 45, 12 issues.
Print ISSN: 1086-9379
Online ISSN: 1945-5100

www.blackwellpublishing.com/maps



Meteoritics & Planetary Science is an international monthly journal of planetary science published by the Meteoritical Society. The journal publishes research articles describing the latest results of new studies, invited reviews of major topics in planetary science, editorials on issues of current interest in the field, and book reviews.

Hot Papers

- ▶ **Evidence for K-rich terranes on Vesta from impact spherules**
Barrat JA et al. (2009, 44, 359)
- ▶ **Petrogenesis of lunar mare basalt meteorite Miller Range 05035**
Liu Y et al. (2009, 44, 261)

For subscription details please contact Wiley Customer Service:

▶ cs-journals@wiley.com
(Americas, Europe, Middle East and Africa, Asia Pacific)

▶ service@wiley-vch.de
(Germany/Austria/Switzerland)

▶ cs-japan@wiley.com
(Japan)

WILEY-BLACKWELL

905331

541300910_bu