

CALL FOR PAPERS



MRS Communications

THE LETTERS & PROSPECTIVES JOURNAL

A publishing of the
MRS MATERIALS RESEARCH SOCIETY
Accelerating research. Improving the quality of life.

CAMBRIDGE
UNIVERSITY PRESS

A Unique Publishing Opportunity

Manuscripts are being solicited for *MRS Communications*—a new full-color, high-impact journal focused on groundbreaking work across the broad spectrum of materials research.

Published jointly by the Materials Research Society (MRS) and Cambridge University Press, *MRS Communications* offers a rapid but rigorous peer-review process and time to publication. An aggressive production schedule will bring your article to online publication and a global audience within a target 14-day process from acceptance.

Hosted on the cutting-edge Cambridge Journals Online (CJO) platform, the journal features a robust suite of author and reader services, as well as an immediate reader/subscriber base including almost 16,000 MRS members and over 2,500 academic, industrial and government libraries worldwide.

Major article types for *MRS Communications* include:

Research Letters
Ultra-Rapid Communications
Prospectives Articles
Editorials
Commentaries
Correspondence

Prospectives Articles are a unique feature of this journal, offering succinct and forward-looking reviews of topics of interest to a broad materials research readership. For more information about the journal and/or these major article types, visit www.mrs.org/mrc or email mrc@mrs.org.

MRS MATERIALS
RESEARCH
SOCIETY

CAMBRIDGE
UNIVERSITY PRESS

Manuscripts are solicited in the following topical areas, although submissions that succinctly describe groundbreaking work across the broad field of materials research are encouraged.

- Biomaterials and biomimetic materials
- Carbon-based materials
- Complex oxides and their interfaces
- Materials for energy storage, conversion and environmental remediation
- Materials for nanophotonics and plasmonic devices
- Theory and simulation of materials
- Mechanical behavior at the nanoscale
- Nanocrystal growth, structures and properties, including nanowires and nanotubes
- Nanoscale semiconductors for new electronic and photonic applications
- New materials synthesis, templating and assembly methods
- New topics in metals, alloys and transformations
- Novel and *in-situ* characterization methods
- Novel catalysts and sensor materials
- Organic and hybrid functional materials
- Quantum matter
- Surface, interface and length-scale effects on materials properties

For manuscript submission instructions, please visit www.mrs.org/mrc-instructions.

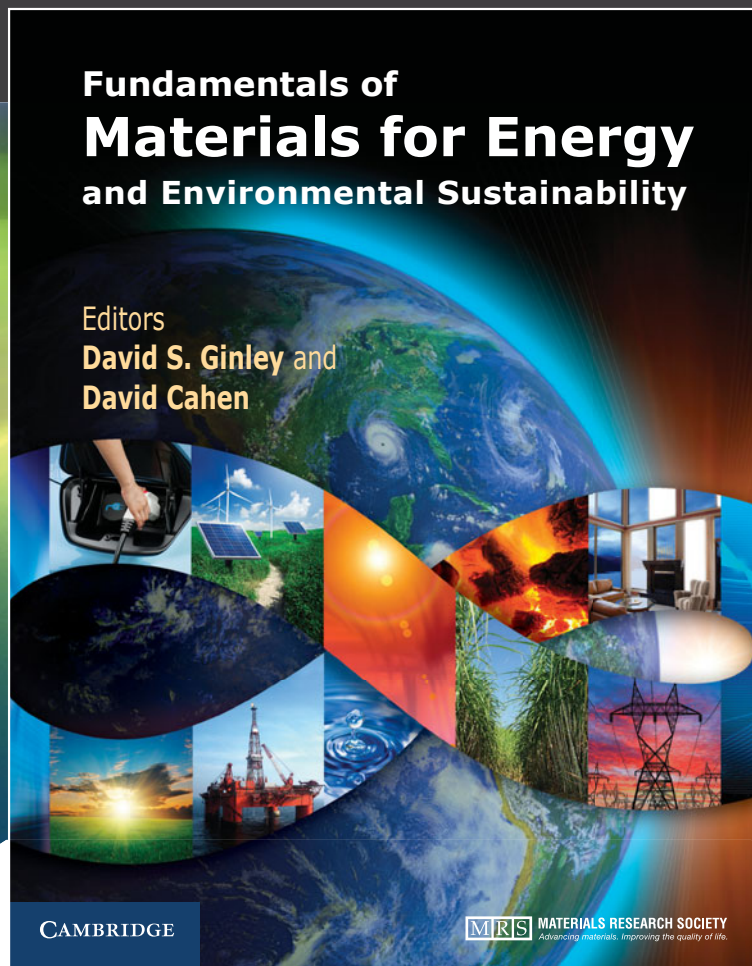
EDITOR IN CHIEF

Peter F. Green, University of Michigan, USA

FOUNDING PRINCIPAL EDITORS

Luca Dal Negro, Boston University, USA
Horacio Espinosa, Northwestern University, USA
Supratik Guha, IBM Research, USA
Dan Hancu, GE Global Research, USA
Kristi Kiick, University of Delaware, USA
Nicola Marzari, Ecole Polytechnique Fédérale de Lausanne, Switzerland
Alberto Salleo, Stanford University, USA
Alec Talin, National Institute of Standards and Technology (NIST), USA
Nagarajan (Nagy) Valanoor, University of New South Wales, Australia

NEW TEXTBOOK



Purchase your
copy today!

www.mrs.org/energybook

Hardback
ISBN: 9781107000230
\$79.00 MRS Member Price
\$99.00 List Price

Whether you are a student taking an energy course or a newcomer to the field, this **TEXTBOOK** will help you understand critical relationships among environment, energy and sustainability.

Leading experts provide comprehensive coverage of each topic, bringing together diverse subject matter by integrating theory with engaging insights. Each chapter includes helpful features to aid understanding, including a historical overview to provide context, suggested further reading and questions for discussion. Every subject is beautifully illustrated and brought to life with full-color images and color-coded sections for easy browsing, making this a **COMPLETE EDUCATIONAL PACKAGE**.

Sections Include:

- Energy and the Environment—The Global Landscape
- Nonrenewable Energy Sources
- Renewable Energy Sources
- Transportation
- Energy Efficiency
- Energy Storage, High-Penetration Renewables and Grid Stabilization

Fundamentals of Materials for Energy and Environmental Sustainability

Editors

David S. Ginley
and
David Cahen

Published in partnership by the **Materials Research Society** and **Cambridge University Press**

MATERIALS RESEARCH SOCIETY

2012 Board of Directors

Officers

B.M. Clemens, *President*
J.J. De Yoreo, *Immediate Past President*
O. Auciello, *Vice President and President-Elect*
S.J. Hearne, *Secretary*
M.R. Fitzsimmons, *Treasurer*

Directors

W. Adams
A.C. Arias
S.M. Baker
T. Benson Tolle
D.B. Dimos
C-B. Eom
E. Garfunkel
J.M. Gibson
O. Kraft
H. Matsumura
A.G. Ramirez
S.K. Streiffer
J.C. Sturm
S.E. Troler-McKinstry
P. Wiltzius

2012 Publications Committee

P.C. McIntyre, *Chair*
P.B. Messersmith, *Editors Subcommittee*
R.M. Wallace, *New Publication Products Subcommittee*
J.C. Bravman, *Publications Quality Subcommittee*

2012 MRS Committee Chairs

M.S. Whittingham, *Academic Affairs*
C.B. Carter, *Awards*
N. Bassim, *Government Affairs*
D.S. Ginley, *Meetings Committee*

Y. Chabal, *Membership*
P.C. McIntyre, *Publications*
A. Risbud, *Public Outreach*

MRS Headquarters

T.M. Osman, *Executive Director*
J.A. Dillen, *Director of Finance and Administration*
P.A. Hastings, *Director of Meeting Activities*
E.K. Novak, *Director of Communications*

Journal of Materials Research Founding Sponsors

Allied-Signal Inc.
Xerox Corporation

About the Materials Research Society

The Materials Research Society (MRS) is a not-for-profit scientific association founded in 1973 to promote interdisciplinary goal-oriented basic research on materials of technological importance. Membership in the Society includes almost 16,000 scientists from industrial, government, and university research laboratories in the United States and abroad.

The Society's interdisciplinary approach to the exchange of technical information is qualitatively different from that provided by single-discipline professional societies because it promotes technical exchange across the various fields of science affecting materials development. MRS sponsors three major international annual meetings encompassing many topical symposia, as well as numerous single-topic scientific meetings each year. It recognizes professional and technical excellence, conducts tutorials, and fosters technical exchange in various local geographical regions through Section activities and Student Chapters on university campuses.

MRS publishes symposia proceedings, the *MRS Bulletin*, and other volumes on current scientific developments. The *Journal of Materials Research*, the archival journal spanning fundamental developments in materials science, is published twenty-four times a year by Cambridge University Press for the MRS. *MRS Communications* is a full-color letters and perspectives journal focused on groundbreaking work across the spectrum of materials research.

MRS regular and student members may subscribe to *Journal of Materials Research*. See inside front cover for subscription rates for *Journal of Materials Research*.

MRS is an Affiliated Society of the American Institute of Physics and participates in the international arena of materials research through associations with professional organizations such as the International Union of Materials Research Societies.

For further information on the Society's activities, contact MRS Headquarters, 506 Keystone Drive, Warrendale, PA 15086-7573; telephone (724) 779-3003; fax (724) 779-8313.



Periodical Rate Postage Paid at New York, NY
and Additional Mailing Offices

Postmaster—Send change of address notice to:

ISSN: 0884-2914

Cambridge University Press
100 Brook Hill Drive
West Nyack, NY 10994-2113, USA