

THE BEGELL DIGITAL LIBRARY (BDL)

is a comprehensive, full-text database providing the latest research data and information across a broad spectrum of engineering and biomedical sciences and applied works. All information is gathered from the most reliable sources in a given field and is peer-reviewed and indexed. Researchers have access to...

- Professional peer-reviewed journals
- THERMOPEDIA™
- Major engineering reference works
- International Centre for Heat & Mass Transfer Conference Proceedings
- Series of eBooks

Deep discounts available for consortia



International Journal for Energetic Materials and Chemical Propulsions

ORDERING INFORMATION:

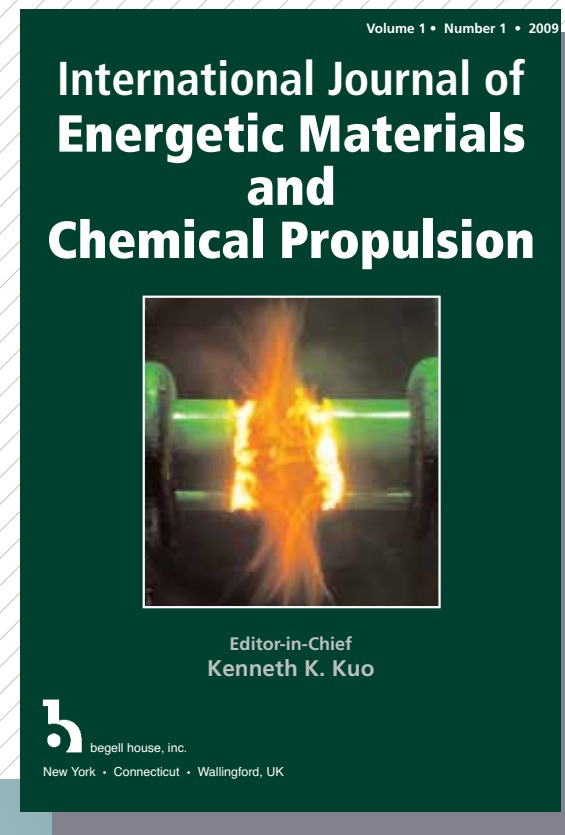
E-mail: orders@begellhouse.com
 Telephone: +1 (203) 938-1300
 Fax: +1 (203) 938-1304
 Mail: 50 Cross Highway
 Redding, CT 06896
www.dl.begellhouse.com

SUBSCRIPTION INFORMATION:

Volume 1 (2010) Issues 1-6
 ISSN for PRINT: 2150-766X
 Institutional subscription rates:
 Print: \$1,192
 Online: \$1,135
 Print+Online: \$1,249
 Individual subscription rates:
 Print: \$140
 Online: \$90
 Print+Online: \$160

International print or print+online orders must include \$10 per issue for postage (Excluding Canada and Mexico)

International Journal for Energetic Materials and Chemical Propulsions



50 Cross Highway,
 Redding, CT 06896

For online access go to: www.dl.begellhouse.com



50 Cross Highway,
 Redding, CT 06896

The main purpose for this journal is to promote scientific investigation, technical advancements, and information exchange in the two closely related areas of energetic materials (EM) and chemical propulsion (CP). Numerous energetic materials have been developed recently for various chemical propulsion applications. Significant advancements in energetic material synthesis, characterization, and model simulation have also been made in recent years. It is expected that this trend will continue even at a greater pace in the future. Nano-sized ingredients and certain novel components offer specific advantages for both military and commercial applications in the chemical propulsion field. The ignition and combustion behavior of various new materials have shown special characteristics based upon experimental, theoretical, and computational research efforts. With the current emphasis on environmental impact, safety, and efficiency, efforts will be made in future development by considering green, insensitive, and high-performance energetic materials. In the chemical propulsion area, there have been numerous advancements in solid, liquid, and hybrid rockets. Similarly, energetic fuels and oxidizers have been formulated and processed for solid-fuel ramjets, ducted rockets, pulse detonation engines, etc. Many challenging problems, such as erosion of nozzle and high-temperature insulation materials, are topics of today's research. In spite of notable advances, many technological gaps have been identified in the combustion of energetic materials for propulsion purposes. This journal is intended to provide a valuable source of technical information associated with the energetic material development related to the advancements in chemical propulsion systems.

The journal is aimed to: The journal is aimed to: 1) promote communication between researchers, designers, and manufacturers regarding state-of-the-art approaches in the combustion field of propellants, explosives, and pyrotechnics; 2) address new and advanced propulsion systems associated with solid, liquid, and gel energetic materials; 3) enhance the safety techniques in the utilization of energetic materials; and 4) encourage the development of highly reliable propulsion systems. The journal also addresses several pressing global issues in the combustion/propulsion area such as: a) environmental concerns; b) enhanced safety operation; and c) economical utilization.



The scope of this journal covers the following 18 areas:

- Nano Technology and Innovative Methods in EM Development;
- Synthesis & Characterization of EMs;
- Formulation, Processing, and Manufacturing of EMs;
- Insensitive Munitions;
- Hazard Reduction and Safety Aspects;
- Theoretical Modeling and Numerical Simulation for CP and EM;
- Performance Evaluation of EMs;
- Aging, Stability, and Compatibility;
- Recycling, Disposal, and Environmental Aspects;
- Test Methods and Diagnostic Techniques in CP and/or Combustion of EMs;
- Ignition and Initiation Processes;
- Detonation and/or Deflagration Processes;
- Thermobarics and Thermites
- Innovative Rocket Propulsion Techniques;
- Rocket Thermal Protection Materials;
- Environmentally-Friendly "Green" Propellants;
- Commercial Applications of EMs; and
- Performance of Advanced Propulsion Systems.

FUNCTIONALITIES:

- Complete Table of Content, Abstracts, and Full-Text articles are available
- HTML, XML and PDF formats
- Advanced Search Engine
- DOIs support direct links to full text from citations registered with CrossRef
- COUNTER compliant usage statistics
- IP access or password access

EDITORS-IN-CHIEF
Kenneth K. Kuo, The Pennsylvania State University, University Park, PA, USA

ASSOCIATE EDITORS

- | | | | |
|---|---|---|---|
| Ronald W. Armstrong
University of Maryland
College Park, MD, USA | Nick G. Glumac
University of Illinois-
Urbana-Champaign
Urbana, IL, USA | Benveniste Natan
Technion-Israel Institute
of Technology
Haifa, Israel | Steven F. Son
Purdue University
West Lafayette, IN, USA |
| Alice I. Atwood
Naval Air Warfare Center
China Lake, CA, USA | Keiichi Hori
ISAS/JAXA
Kanagawa, Japan | Roland Pein
German Aerospace Center
Hardthausen, Germany | Bryce C. Tappan
Los Alamos National Laboratory
Santa Fe, NM, USA |
| J. Eric Boyer
Pennsylvania State University
University Park, PA, USA | Thomas M. Klapötke
Ludwig-Maximilian University
Munich, Germany | Arie Peretz
Rafael
Haifa, Israel | Sonia Thiboutot
DRDC Valcartier
Valcartier, Canada |
| Luigi DeLuca
Politecnico di Milano
Milano, Italy | J. H. (Hansie) Knoetze
Stellenbosch University
Matieland, South Africa | Juan de Dios Rivera
Pontificia University
Catolica de Chile
Santiago, Chile | Adri van Duin
Pennsylvania State University
University Park, PA, USA |
| Edward L. Dreizin
New Jersey Institute of Technology
Newark, NJ, USA | Joseph H. Koo
University of Texas
Austin, TX, USA | Valery P. Sinditskii
Mendeleev University
of Chemical Technology
Moscow, Russia | Chun-Liang Yeh
Feng-Chia University
Changhua, Taiwan, ROC |
| Alon Gany
Technion-Israel Institute
of Technology
Haifa, Israel | M. C. Lin
Emory University
Atlanta, GA, USA | Richard A. Yetter
Pennsylvania State University
University Park, PA, USA | |

EDITORIAL BOARD MEMBERS

- | | | | | | |
|--|--|---|---|--|---|
| Chung K. (Ed) Law
Princeton University
Princeton, NJ, USA | Elaine S. Oran
Naval Research Lab
Washington, D.C., USA | William A. Sirignano
Univ of California-Irvine
Irvine, CA, USA | Forman A. Williams
Univ of California-San Diego
San Diego, CA, USA | Masamitsu Tamura
University of Tokyo
Tokyo, Japan | Charles J. Kappenstein
University of Poitiers
Poitiers, France |
|--|--|---|---|--|---|

New Begell House Online Submission Site!

In 2008, Begell House launched its own Online Submission Site to assist Editors, Authors, and Reviewers in the peer-review process for publication of articles. The submission site was created to provide authors with a fast and easy way to submit articles. Authors can submit an article(s), communicate with the Editors, and track the status of their article from time of submission to publication. Editors will be able to request Reviewers, forward Reviewer comments/corrections to authors, submit accepted articles for publication, track the status of all articles submitted, and maintain a history of all accepted and rejected articles. Everyone involved in the peer-review process must register before they can gain access to the submission site. Three easy steps will allow an individual access to the site.

STEP 1: begin at <http://submission.begellhouse.com/>, click on "New User" icon in the left sidebar, once you click on this link the registration form will appear.

STEP 2: Complete the registration form, be sure to click on the circle "Submission authors/reviewers/editors" so that your registration form is correctly processed. After you have completed the form click on the submit button. Your registration form will then be reviewed by Begell House staff. If all necessary information has been provided they will approve your registration. Upon approval an automatic email will be sent to you which will include your username and password. Username and password are usually provided within 24 hours.

STEP 3: Return to the submission homepage, click on the "Login" icon in the left sidebar, type in username and password, hit login button and you will then be able to submit or review an article. Any questions concerning the submission site should be emailed to vicky@begellhouse.com.

