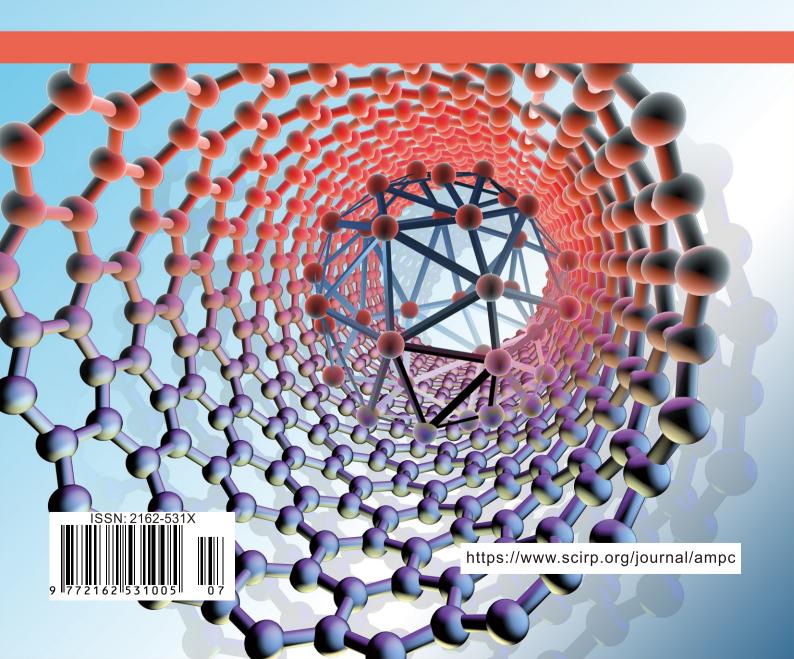


# Advances in Materials Physics and Chemistry



## **Journal Editorial Board**

ISSN: 2162-531X (Print) ISSN: 2162-5328 (Online) https://www.scirp.org/journal/ampc

.....

### **Editor-in-Chief**

Prof. Zhiwen Chen Shanghai University, China

### **Editorial Board**

**Dr. Hijaz Ahmad** University Uninettuno, Italy

Prof. Takashiro Akitsu Tokyo University of Science, Japan

Dr. Bensely AlbertCMC Americas, Inc., USAProf. Maysoon AliasUniversity of Baghdad, IraqProf. Adriana BigiUniversity of Bologna, Italy

**Dr. Mary Caruso** 3M Company, USA

Prof. Fatma GödeBurdur Mehmet Akif Ersoy University, TurkeyDr. Tien-Min Gabriel ChuIndiana University School of Dentistry, USA

Prof. Yongli Gao Department of Physics and Astronomy, University of Rochester, USA

**Dr. Byron D. Gates** Simon Fraser University, Canada

Dr. A. Nirmala Grace VIT University, India

Prof. David Hui University of New Orleans, USA

**Prof. Kisuk Kang** Seoul National University, South Korea

**Dr. Hong Jin Kim** Advanced Module Engineering, Globalfoundries, USA

**Dr. Ing Kong** RMIT University, Malaysia

**Dr. Mathew T. Mathew** University of Illinois College of Medicine at Rockford, IL, USA

Prof. R. M. Mehra

Dr. Mohsen Mhadhbi

Tunis University, Tunisia

Dr. Santosh K. Pandey

Iowa State University, USA

Prof. Rakesh Sharma FAMU-FSU College of Engineering, USA

Prof. Peter E. Strizhak
National Academy of Sciences of Ukraine, Ukraine
Dr. Yadong Wang
University of Pittsburgh School of Medicine, USA

**Dr. Meng Zhang** Philips Lumileds Lighting Company, USA

**Prof. Zengping Zhang** Chang' an University, China

Prof. Qifa Zhou University of Southern California, USA



ISSN Online: 2162-5328 ISSN Print: 2162-531X

# **Table of Contents**

Volume 12	Number 7	July 2022
Calibration of DI	EM Parameters to Simulate a Planetary Ball Mill	
M. Mhadhbi		155

# Advances in Materials Physics and Chemistry (AMPC) Journal Information

### SUBSCRIPTIONS

The *Advances in Materials Physics and Chemistry* (Online at Scientific Research Publishing, <a href="https://www.scirp.org/">https://www.scirp.org/</a>) is published monthly by Scientific Research Publishing, Inc., USA.

### Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

### **SERVICES**

### Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

### Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

### **COPYRIGHT**

### Copyright and reuse rights for the front matter of the journal:

Copyright © 2022 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

http://creativecommons.org/licenses/by/4.0/

### Copyright for individual papers of the journal:

Copyright © 2022 by author(s) and Scientific Research Publishing Inc.

### Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

### Disclaimer of liability

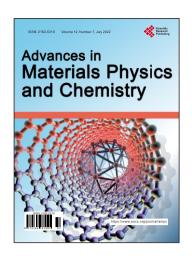
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

### PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ampc@scirp.org





# Advances in Materials Physics and Chemistry

ISSN: 2162-531X (Print) ISSN: 2162-5328 (Online)

https://www.scirp.org/journal/ampc

Advances in Materials Physics and Chemistry contains rapid communications, full-length original research, review articles and comments on interrelationships among synthesis, micro/nanostructures, properties, processing and performance of Materials Science, Physics, and Chemistry. This includes, but is not limited to:

- Biomaterials
- Composite Materials
- Energy Resources Materials
- Environmental Materials
- Fine Ceramics
- · Graphene and Carbon
- Magnetics
- Nanodevices
- Nanomaterials
- Nanotechnology
- Optoelectronic Materials
- Polymers
- Quantum Science and Technology
- Semiconductors
- Superconductors
- Surface and Interface Science
- Thin Films

### Editor-in-Chief

Prof. Zhiwen Chen Shanghai University, China

### **Editorial Board**

Dr. Hijaz Ahmad Prof. Takashiro Akitsu Dr. Bensely Albert Prof. Maysoon Alias Prof. Adriana Bigi Dr. Mary Caruso Prof. Fatma Göde Dr. Tien-Min Gabriel Chu

Prof. Yongli Gao

Dr. Byron D. Gates
Dr. A. Nirmala Grace
Prof. David Hui
Prof. Kisuk Kang
Dr. Hong Jin Kim
Dr. Ing Kong
Dr. Mathew T. Mathew
Prof. R. M. Mehra

Dr. Mohsen Mhadhbi

E-mail: ampc@scirp.org

Dr. Santosh K. Pandey Prof. Rakesh Sharma Prof. Peter E. Strizhak Dr. Yadong Wang Dr. Meng Zhang Prof. Zengping Zhang Prof. Qifa Zhou

### Website and E-Mail

https://www.scirp.org/journal/ampc

### What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

### What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience





Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org