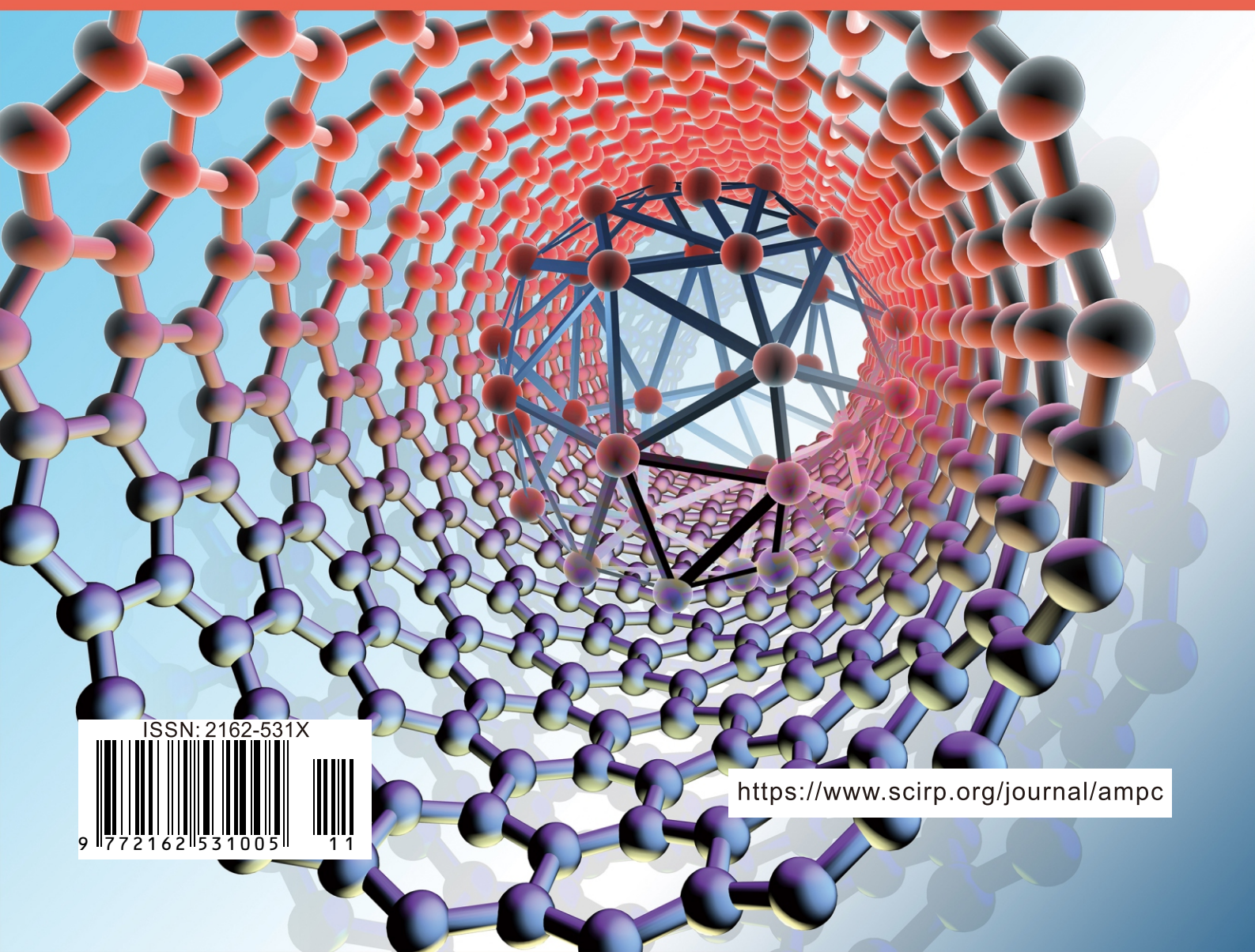


Advances in Materials Physics and Chemistry



ISSN: 2162-531X



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

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 Albert

CMC Americas, Inc., USA

Prof. Maysoon Alias

University of Baghdad, Iraq

Prof. Adriana Bigi

University of Bologna, Italy

Dr. Mary Caruso

3M Company, USA

Prof. Fatma Göde

Burdur Mehmet Akif Ersoy University, Turkey

Dr. Tien-Min Gabriel Chu

Indiana 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

Rush University Medical Centre, USA

Prof. R. M. Mehra

Sharda University, India

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. Qifa Zhou

University of Southern California, USA

Table of Contents

Volume 11 Number 11

November 2021

Generalized Parameters of Porous Materials as Similarity Numbers

L. Titelman.....177

**Preparation of Sulfhydryl Functionalized Mesoporous Silica Particles and Application
in Adsorption of Cd²⁺**

H. Yu, J. M. Zhang, S. H. Mao, X. Wei.....202

**Volume, Side-Area, and Force Direction of Berkovich and Cubecorner Indenters,
Novel Important Insights**

G. Kaupp.....212

Advances in Materials Physics and Chemistry (AMPC)

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

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 © 2021 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 © 2021 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.

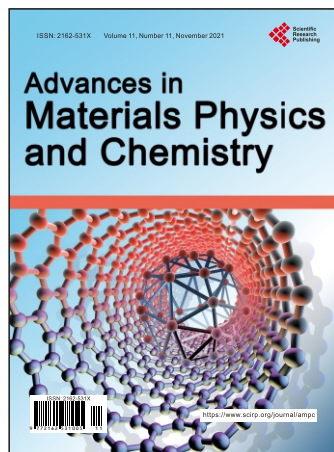
Disclaimer of liability

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



Call for Papers

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

Website and E-Mail

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

E-mail: ampc@scirp.org

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



**Scientific
Research
Publishing**

Website: <https://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org