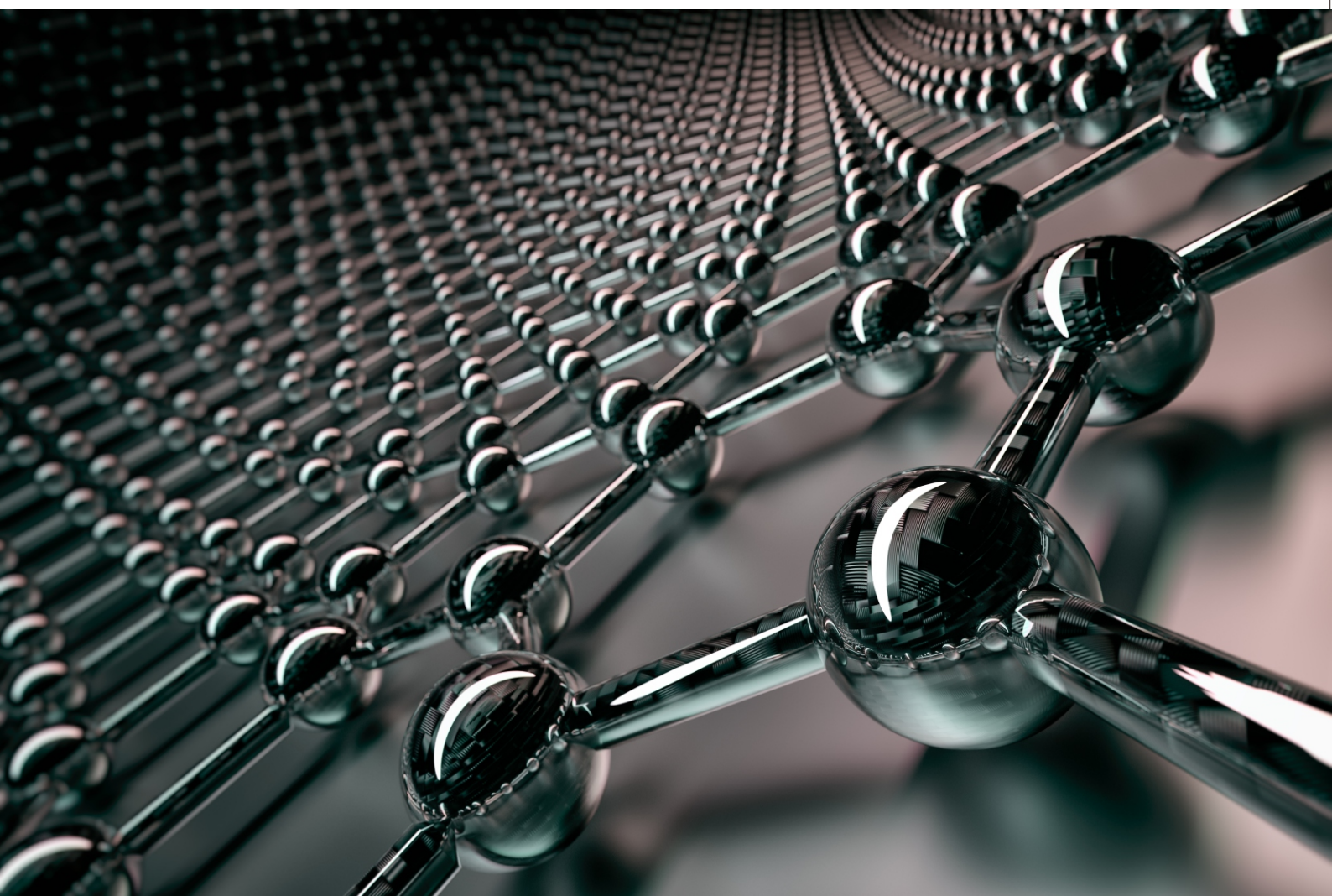


ISSN: 2327-6045 Volume 13, Number 3, March 2025



Journal of Materials Science and Chemical Engineering



ISSN: 2327-6045



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

Journal Editorial Board

ISSN Print: 2327-6045 ISSN Online: 2327-6053

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

Editor-in-Chief

Prof. Jiyu Fang

University of Central Florida, USA

Editorial Board

Prof. Mohammad Abdel-Karim

Fayoum University, Egypt

Prof. Brioude Arnaud

University of Lyon, France

Prof. Gajanan S. Bhat

University of Tennessee, USA

Dr. Quan Can

National Institute of Metrology, China

Dr. Zeki Candan

Istanbul University, Türkiye

Prof. Paul R. Carney

University of Florida, USA

Dr. Neha Chaturvedi

King Abdullah University of Science and Technology, Saudi Arabia

Dr. Kok Boon Chong

University Malaysia of Computer Science & Engineering, Malaysia

Dr. Mohamed Abdel Moneim Deyab

Egyptian Petroleum Research Institute, Egypt

Dr. Tara P. Dhakal

Center for Autonomous Solar Power (CASP Center), USA

Prof. Anter El-Azab

Purdue University, USA

Prof. Elsayed Ahmed Elnashar

Kaferelsheikh University, Egypt

Dr. Reza Ghomashchi

University of Adelaide, Australia

Dr. Hazar Guesmi

Institute of Charles Gerhardt, France

Prof. Yongsheng Han

Chinese Academy of Sciences, China

Dr. Anwarul Hasan

American University of Beirut, Lebanon

Prof. Weidong He

University of Electronic Science and Technology of China, China

Dr. Raja Rizwan Hussain

King Saud University, Saudi Arabia

Prof. Tifeng Jiao

Yanshan University, China

Prof. Kasem K. Kase

Indiana University Kokomo, USA

Dr. Shafique Khan

King Fahd University, Saudi Arabia

Prof. Hyung Kook Kim

Pusan National University, South Korea

Dr. Nikhil Kumar

Indian Institute of Technology (BHU), India

Dr. Anson W. K. Ma

University of Connecticut, USA

Prof. Martin Alberto Masuelli

National University of San Luis, Argentina

Dr. Luisa Molari

University of Bologna, Italy

Dr. Andro H. Mondala

Western Michigan University, USA

Prof. Badie I. Morsi

University of Pittsburgh, USA

Dr. Ravin Nattin

University of Alberta Edmonton, Canada

Prof. Zeeshan Nawaz

SABIC Technology & Innovation Center, Saudi Arabia

Prof. Dimitrios A. Papaconstantopoulos

George Mason University, USA

Prof. Guo Qiang

Shanghai Jiao Tong University, China

Prof. Elias Randjbaran

Aircraft Composite Inc, Malaysia

Dr. Andrew Rusinko

Óbuda University, Hungary

Dr. Marisa Di Sabatino

Norwegian University of Science and Technology, Norway

Prof. Manoj Kumar Singh

CSIR-Central Institute of Mining & Fuel Research, India

Dr. Hua Song

University of Calgary, Canada

Dr. Jiri Tochacek

Brno University of Technology, Czech Republic

Prof. Zhirui Wang

University of Toronto, Canada

Prof. Shuilin Wu

Tianjin University, China

Prof. Maiyong Zhu

Jiangsu University, China

Table of Contents

Volume 13 Number 3

March 2025

Sizing of a Mobile Sodabi Production Unit

S. A. O. Sanya, F. Akole, M. F. Sanya, C. Akowanou..... 1

Analysis of Bauxite by X-Ray Fluorescence: Mineralogical Study of the Boffa Deposits

M. Camara, C. A. Balde, A. T. Balde, S. Balde, T. D. Camara..... 18

Properties of Selenium under Tensile Stretch: A Molecular Dynamics Simulation

P. Baumgart, K. Berlin, A. Bogatyrev, J. Kappelmaier, I. Kemmer,

R. Rest, V. Salz, J. Schienke, E. Wiesner, C. Oligschleger..... 25

Standard Operating Procedures (SOPs) for the Selection of Toxic Industrial Chemicals (TICs)

Handheld Detection Equipment for the United Arab Emirates Civil Defense Forces:

Technologies versus Operations Integration

K. Al-Atrash..... 44

Journal of Materials Science and Chemical Engineering (MSCE)

Journal Information

SUBSCRIPTIONS

The *Journal of Material Science and Chemical Engineering* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$69 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 © 2025 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 © 2025 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.

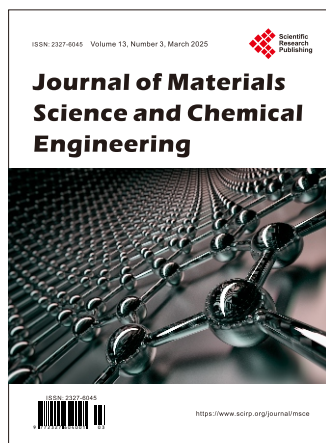
Disclaimer of liability

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: msce@scirp.org



Journal of Materials Science and Chemical Engineering

ISSN Print: 2327-6045 ISSN Online: 2327-6053

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

Journal of Materials Science and Chemical Engineering is an international journal dedicated to the latest advancement of materials science and chemical engineering. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of materials science and chemical engineering. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Generally, accepted papers will appear online within 3 weeks followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Biomaterials and Biotechnology
- Carbon Nanomaterials
- Catalysis and Reaction Engineering
- Chemical Engineering
- Chemical Synthesis
- Composite Materials
- Extractive Metallurgy
- Fabrication of Nanomaterials
- Functional Material
- Inkjet Printing of Functional Materials
- Masonry Structures
- Metals and Alloys
- Microstructured Materials
- Modelling and Simulation in Structural Engineering
- Nanomaterials
- Nanotechnology and Nanoscience
- Polymer Processing
- Separation Science and Technology

We are also interested in: 1) Short Reports–2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews–Comments and critiques.

Website and E-Mail

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

E-mail: msce@scirp.org

