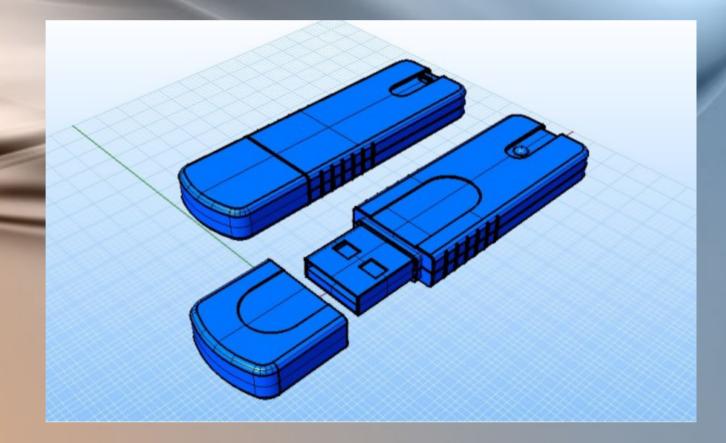


Modeling and Numerical Simulation of Material Science





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

Journal Editorial Board

ISSN: 2164-5345 (Print) ISSN: 2164-5353 (Online) https://www.scirp.org/journal/mnsms

Honorary Editor-in-Chief	
Prof. Kiet Tieu	University of Wollongong, Australia
Europetius Editor in Objet	
Executive Editor-in-Chief	
Prof. Hailiang Yu	Central South University, China
Editorial Board	
Dr. Jean-Pierre Badiali	Laboratoire d'Electrochimie Chimie Analytique, France
Dr. François Barthelat	McGill University, Canada
Prof. Giuseppe Bonifazi	Università di Roma, Italy
Prof. Roberto Brighenti	University of Parma, Italy
Prof. Zhenshan Cui	Shanghai Jiao Tong University, China
Dr. Raj Das	University of Auckland, New Zealand
Dr. Shaogang Hao	Iowa State University, USA
Prof. Alireza Heidari	American International Standards Institute (AISI), Irvine, California, USA
Dr. Chen Huang	Los Alamos National Laboratory, USA
Dr. Ayhan Ince	General Dynamics Land Systems, Canada
Dr. Jinwu Kang	Tsinghua University, China
Prof. Alexandre Ksenofontov	National Research Nuclear University, Russia
Prof. Xianghua Liu	Northeastern University, China
Dr. Yingtao Liu	University of Oklahoma, USA
Dr. Cheng Lu	University of Wollongong, Australia
Dr. Jane Weizhen Lu	City University of Hong Kong, China
Prof. Gilles Lubineau	COHMAS Laboratory, Saudi Arabia
Dr. Qing Peng	Rensselaer Polytechnic Institute, USA
Dr. Hai Qing	Siemens Wind Power, Denmark
Prof. Houfa Shen	Tsinghua University, China
Prof. Ashok Srvastava	Louisiana State University, USA
Prof. Baolin Wang	The University of New South Wales, Australia
Dr. Huanan Yu	Washington State University, USA
Prof. Hamit Yurtseven	Middle East Technical University, Turkey
Prof. Shihong Zhang	Chinese Academy of Sciences, China



Table of Contents

Volume 9 Number 4

October 2019

Mathematical Model for the Dynamics of Glucose, Insulin and $m eta$ -Cell Mass under the Effect of Trauma, Excitement and Stress	
I. I. Mohammed, I. I. Adamu, S. J. Barka71	
Comparative Study of Lead-Free Perovskite Solar Cells Using Different Hole Transporter Materials	
A. B. Coulibaly, S. O. Oyedele, N. R. Kre, B. Aka97	

Modeling and Numerical Simulation of Material Science (MNSMS) Journal Information

SUBSCRIPTIONS

The *Modeling and Numerical Simulation of Material Science* (Online at Scientific Research Publishing, <u>https://www.scirp.org/</u>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$69 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

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: <u>sub@scirp.org</u>

COPYRIGHT

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

Copyright © 2019 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 © 2019 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: mnsms@scirp.org

Call for Papers



Modeling and Numerical Simulation of Material Science

ISSN 2164-5345 (print) ISSN 2164-5353 (online) https://www.scirp.org/journal/mnsms

Modeling and Numerical Simulation of Material Science (**MNSMS**) is an international peerreviewed, open access journal publishing in English original research studies, reviews and case reports in all aspects of Material Science. Symposia or workshop papers may be published as supplements.

Honorary Editor-in-Chief

Prof. Kiet Tieu University of Wollongong, Australia

Executive Editor-in-Chief

Prof. Hailiang Yu Central South University, China

Subject Coverage

All the manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copies. The journal publishes original papers including but not limited to the following fields:

- Application of modeling and numerical simulation methods in analysis of solidification, forming, welding, heat treatment, surface engineering, process of materials, include, ferrous metals and alloys, non-ferrous metals and alloys, biomaterials, carbons, ceramic materials, polymer, composites, and other advanced materials.
- New development of modeling and numerical simulations methods for analysis material processes, such as finite element method, finite difference method, boundary element method, slab method, crystal finite element method, CA, MD, statistical methods, artificial intelligence method.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

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

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?

Art and Design Review

Advances in

ances in Biologica

Entomolog

Applied Mathematics

Engineering

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



ĥ h

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