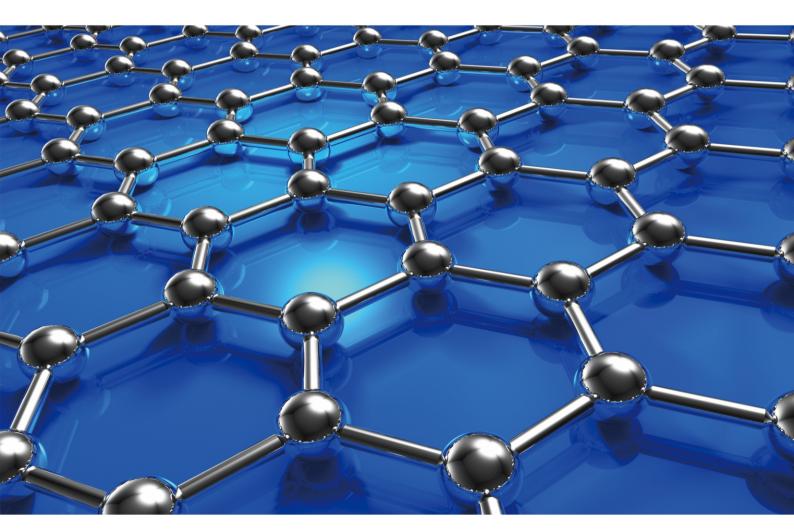




Advances in Chemical Engineering and Science





Journal Editorial Board

ISSN 2160-0392 (Print) ISSN 2160-0406 (Online)

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

......

Editor-in-Chief

Prof. Sung Cheal Moon Korea Institute of Materials Science (KIMS), South Korea

Editorial Board

Prof. Azzedine Abbaci Université Badji Mokhtar, Algeria

Prof. Jose-Maria Bastidas Spanish Council for Scientific Research (CSIC), Spain

Prof. Ercan Bursal Mus Alparslan University, Türkiye

Prof. Elton J. Cairns Department of Chemical and Biomolecula, University of California, Berkeley, USA

Prof. Kevin C. Cannon Penn State Abington, Abington, PA, USA

Dr. Mei Yee Maggie Chan Department of Chemistry, The University of Hong Kong, China

Prof. Juan A. Conesa University of Alicante, Spain

Dr. Abdul Rouf Dar Department of Chemistry, University of Florida, USA

Prof. Hany Elazab British University in Egypt (BUE), Egypt. Validated from London South Bank University

(LSBU, UK), Egypt

Prof. Zhen FangChinese Academy of Sciences, ChinaProf. Mervin Floyd FingasNational Academy of Sciences, USA

Dr. Mazevar Parvinzadeh Gashti Université Laval, Canada

Dr. Raja Ghosh Department of Chemistry and Biochemistry University of California, San Diego, USA

Dr. A. Nirmala Grace VIT University, India

Prof. Chang-Sik Ha Pusan National University, South Korea

Prof. Alireza Heidari Faculty of Chemistry, California South University (CSU), Irvine, California, USA

Dr. Christopher J. Koroneos

National Technical University of Athens, Greece
Prof. Roberto Fernández Lafuente

Consejo Superior de Investigaciones Científicas, Spain

Prof. Lubomir LapcikTomas Bata University, Czech RepublicProf. Fengshan LiuNational Research Council, Canada

Dr. Domingos Lusitaneo Pier MacuveleDepartment of Science, Engineering, Technology and Mathematics University of

Rovuma, Mozambique

Dr. Muhammad ManshaUniversity of Engineering and Technology, Pakistan

Dr. Miguel Miranda National Laboratory of Engineering and Geology, I.P., Portugal

Prof. Hasan Abdellatif MousaJordan University of Science and Technology, JordanProf. G. Panduranga MurthyVisvesvaraya Technological University, Karnataka, India

Prof. Hamdaoui Oualid University of Annaba, Algeria

Prof. Tarasankar Pal Department of Chemical Sciences, University of Johannesburg, South Africa

Prof. Onder PekcanKadir Has University, TürkiyeProf. A. V. RaghuJain Deemed-to-be University, India

Dr. Josimar RibeiroUniversidade Federal do Espírito Santo, BrazilProf. Tamara SakhnoPoltava State Agrarian University, Ukraine

Prof. Hristo Sapoundjiev Natural Resources Canada, Canada

Prof. Chi-Min Shu National Yunlin University of Science and Technology, Chinese Taipei

Prof. Georgiy B. Shul'pin Russian Academy of Sciences, Russia

Dr. Md Nurul Islam Siddique Faculty of Ocean Engineering Technology & Informatics, Program: Environmental

Engineering, University Malaysia Terengganu (UMT), Terengganu, Malaysia

Prof. Ajaya Kumar Singh Department of Chemistry, Govt. V. Y. T. PG. Autonomous College, India

Dr. Shuangzhen WangNational Insistute of Standards and Technology, USA

Dr. Chunliang WuLouisiana State University, USADr. Hongwei WuUniversity of Hertfordshire, UK

Prof. Gennady Efremovich Zaikov Moscow State Academy of Fine Chemical Technology, Russia



Volume 14 Number 1

ISSN Online: 2160-0406 ISSN Print: 2160-0392

January 2024

Table of Contents

Formation and Properties of Organic Long Persistent Luminescence Crystals Containing Benzidine Derivatives by Melt Crystallization	
N. Doki, K. Maruyama, M. Yokota	1
Energetic and Entropic Changes in Volume Work and Chemical Reactions	
F. Diederichs	8
Optimization of Biofuel Formulation by Mixture Design	
K. E. Kouassi, A. Abollé, K. OM. Kouakou, D. Boa, N. R. Kré, K. B. Yao4	8

Advances in Chemical Engineering and Science (ACES) Journal Information

SUBSCRIPTIONS

The Advances in Chemical Engineering and Science (Online at Scientific Research Publishing, https://www.scirp.org/) is published quarterly 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 © 2024 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 © 2024 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: aces@scirp.org

Call for Papers



Advances in Chemical Engineering and Science

ISSN: 2160-0392 (Print), 2160-0406 (Online)

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

Advances in Chemical Engineering and Science is an open access, peer-reviewed and fully refereed journal focusing on theories, methods and applications in chemical engineering and science. 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 Advances in Chemical Engineering and Science.

Editor-in-Chief

Prof. Sung Cheal Moon

Korea Institute of Materials Science (KIMS), South Korea

Subject Coverage

All 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 copy. The journal publishes original papers including but not limited to the following fields:

- Biochemical Engineering
- Bio-Engineering Materials
- Chemical Engineering Biotechnology
- Chemical Reaction
- Chemical Reaction Related Unit Operations
- Chemicals
- Composite Materials
- Electrochemistry of Nanomaterials and Applications
- Energy Engineering
- Environmental Engineering
- Fluid Mechanics
- Green Chemistry

- Molecular Assembly
- Nanomaterials
- Nano-Scale Phenomena
- Nanostructured Materials
- Nanotechnology
- Natural Products
- Optimization of Chemical Engineering Systems
- Organic Chemistry
- Petrochemical
- Pharmaceuticals Polymers
- Specialty Chemicals
- Transport Phenomena

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the **ACES**.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers will be peer reviewed. For more derails about the submission, please access the website.

E-mail: aces@scirp.org

Website and E-Mail

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

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