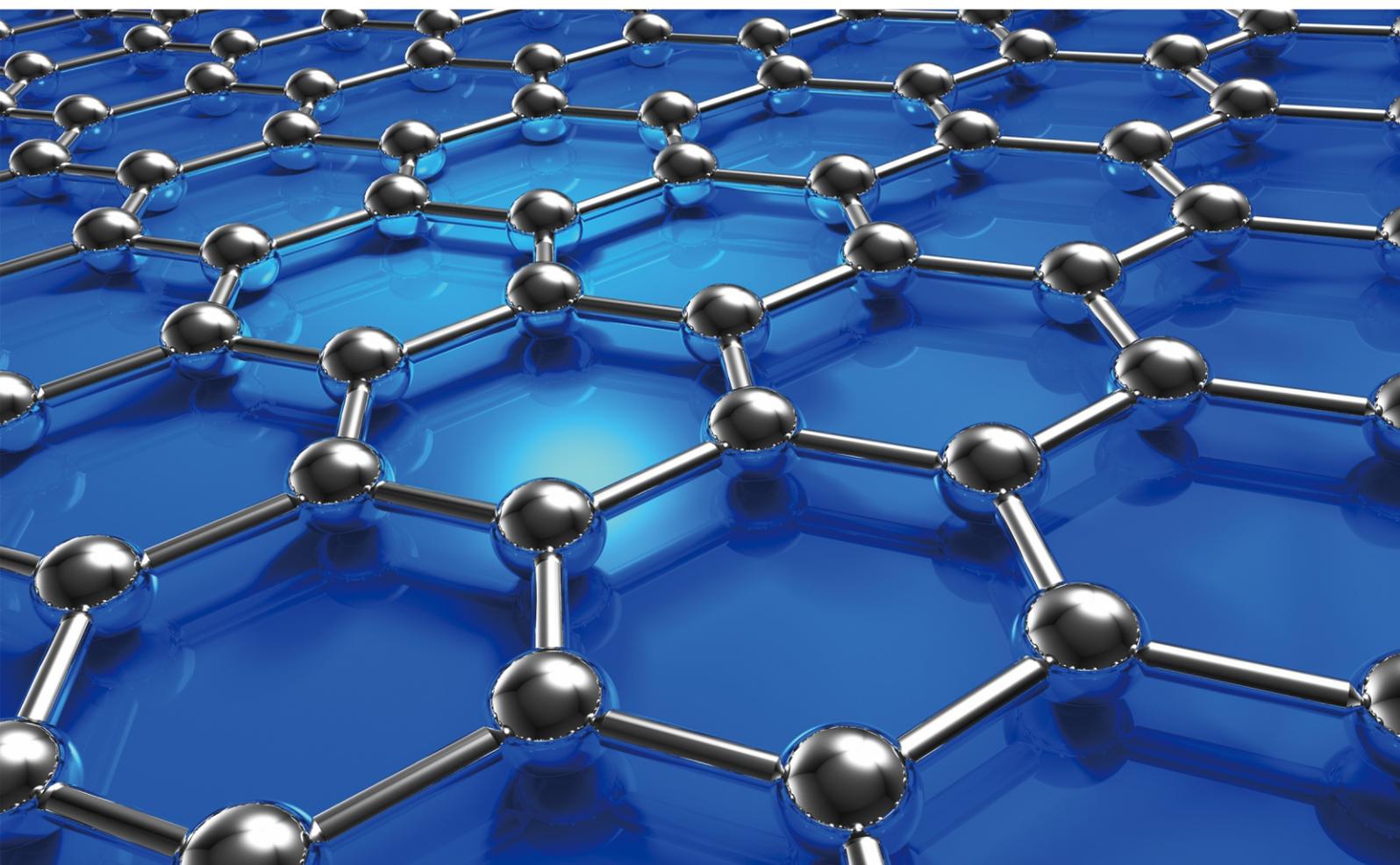


ISSN: 2160-0392 Volume 9, Number 1, January 2019



Advances in Chemical Engineering and Science



ISSN: 2160-0392



www.scirp.org/journal/aces

Journal Editorial Board

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

<http://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

Dr. Sampa Chakrabarti

University of Calcutta, India

Prof. Juan A. Conesa

University of Alicante, Spain

Prof. Zhen Fang

Chinese Academy of Sciences, China

Prof. Mervin Floyd Fingas

National Academy of Sciences, USA

Dr. Mazeyar Parvinezadeh Gashti

Université Laval, Canada

Dr. A. Nirmala Grace

VIT University, India

Prof. Chang-Sik Ha

Pusan National University, South Korea

Dr. Christopher J. Koroneos

National Technical University of Athens, Greece

Prof. Roberto Fernández Lafuente

Consejo Superior de Investigaciones Científicas, Spain

Prof. Lubomir Lapcik

Tomas Bata University, Czech Republic

Prof. Fengshan Liu

National Research Council, Canada

Dr. Muhammad Mansha

University of Engineering and Technology, Pakistan

Dr. Miguel Miranda

National Laboratory of Engineering and Geology, I.P., Portugal

Prof. Hasan Abdellatif Mousa

Jordan University of Science and Technology, Jordan

Prof. Hamdaoui Oualid

University of Annaba, Algeria

Dr. Graziano Pinna

University of Illinois at Chicago, USA

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. Ajaya Kumar Singh

Government VYT Post Graduate Autonomous College, India

Dr. Shuangzhen Wang

National Institute of Standards and Technology, USA

Dr. Chunliang Wu

Louisiana State University, USA

Dr. Hongwei Wu

University of Hertfordshire, UK

Prof. Gennady Efremovich Zaikov

Moscow State Academy of Fine Chemical Technology, Russia

Table of Contents

Volume 9 Number 1

January 2019

Kinetics on Thermal Decomposition of Iron(III) Complexes of 1,2-Bis(Imino-4'-Antipyrinyl)Ethane with Varying Counter Anions	
F. Elemo, T. Gebretsadik, M. Gebrezgiabher, Y. Bayeh, M. Thomas.....	1
A Controlled Mixing Method for Stabilizing the Purity and Reducing the Waste in Gas Delivery Systems	
J. S. Wu, F. Shadman.....	11
Hydrodynamic Modelling, Thermodynamic and Textural Variations during Common Beans Soaking	
E. M. Kwofie, O. I. Mba, M. Ngadi.....	27
Temperature Dependence of Density, Viscosity, Thermal Conductivity and Heat Capacity of Vegetable Oils for Their Use as Biofuel in Internal Combustion Engines	
A. S. Zongo, G. Vaïtilingom, T. Daho, C. Caillol, J.-F. Hoffmann, B. Piriou, J. Valette, B. G. Segda, P. Higelin.....	44
Hydration Characteristics of Selected Varieties of Paddy Rice from Nigeria	
C. Ejebe, E. M. Kwofie, M. Ngadi.....	65
Synthesis of Branch-Type Cyclophane Tetramers Having a Multivalently Enhanced Guest-Binding Ability	
O. Hayashida, C. Nada, S. Kusano.....	76
Investigation of Different Ionic Liquids in Improving Oil Recovery Factor	
A. Alarbah, M. Shirif, E. Shirif.....	87
Protein Enrichment of Potato Peels Using <i>Saccharomyces cerevisiae</i> via Solid-State Fermentation Process	
O. I. Maxwell, U. B. Chinwuba, M. G. Onyebuchukwu.....	99
A Review of Promising Electrocoagulation Technology for the Treatment of Wastewater	
M. A. Sadik.....	109

Advances in Chemical Engineering and Science (ACES)

Journal Information

SUBSCRIPTIONS

The *Advances in Chemical Engineering and Science* (Online at Scientific Research Publishing, 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 © 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.

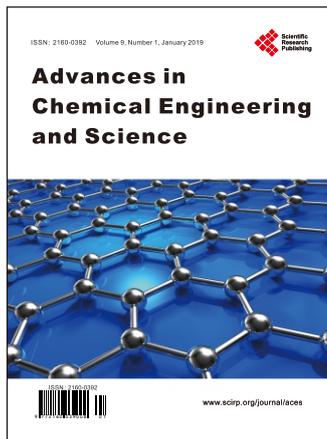
Disclaimer of liability

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: aces@scirp.org



Advances in Chemical Engineering and Science

ISSN: 2160-0392 (Print), 2160-0406 (Online)
<http://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 details about the submission, please access the website.

Website and E-Mail

www.scirp.org/journal/aces

E-mail: aces@scirp.org