

# Green and Sustainable Chemistry





www.scirp.org/journal/gsc

# **Journal Editorial Board**

ISSN Print: 2160-6951 ISSN Online: 2160-696X http://www.scirp.org/journal/gsc

#### **Editor-in-Chief**

Prof. Nour-Eddine Es-Safi

#### **Editorial Board**

Prof. Abbas Afkhami Prof. Salah Akkal Prof. Nelson Belzile **Prof. Asim Bhaumik Prof. Pradip K. Bhowmik Prof. George Bratulescu Prof. Chieh-Ming James Chang Prof. Jo-Shu Chang** Prof. Xiuyun Chuan Prof. T. C. Chung Prof. Mircea Darabantu Prof. Zhen Fang Dr. Majid Ghashang **Prof. Chin-Pao Huang** Dr. Oilin Huang Prof. Mo Hunsen Prof. William E. Acree Jr. Prof. György Keglevich Prof. Shailendra Kumar Kulshreshtha **Prof. Yoon-Sik Lee Prof. Silvia Licoccia Prof. Yangsheng Liu Dr. Ying-Ling Liu Prof. Averous Luc** Prof. Ram S. Mohan Prof. S. V. Ranga Nayakulu Prof. Nagatoshi Nishiwaki Prof. Kotohiro Nomura Dr. Vilas G. Pol Dr. Batchu Venkateswara Rao **Prof. Ismael Saadoune** Prof. Mohammed Abd El-Dayem Sallam Prof. Zhihui Shao **Prof. Yongsoon Shin Prof. Artur Manuel Soares Silva Prof. Gurdip Singh Prof. Gonghua Song** Prof. Piotr Stepnowski Dr. Chuan Wang **Prof. Hongjie Zhang** Prof. Jin Zhu

Bu-Ali Sina University, Iran University of Constantine, Algeria Laurentian University, Canada Indian Association for the Cultivation of Science, India University of Nevada, USA University of Craiova, Romania National Chung Hsing University, Chinese Taipei National Cheng Kung University, Chinese Taipei Peking University, China The Pennsylvania State University, USA University Babes-Bolyai, Romania Chinese Academy of Sciences, China Islamic Azad University, Iran University of Delaware, USA Huazhong Agriculture University, China Kenyon College, USA The University of North Texas, USA Budapest University of Technology and Economics, Hungary Atomic Energy Education Society, India Seoul National University, South Korea University of Rome Tor Vergata, Italy Peking University, China National Tsing Hua Univesity, Chinese Taipei University of Strasbourg, France Illinois Wesleyan University, USA Guru Nanak Engg College, India Kochi University of Technology, Japan Tokyo Metropolitan University, Japan Argonne National Laboratory, USA Indian Institute of Chemical Technology, India Faculty of Science and Technologies Marrakesh, Morocco Alexandria University, Egypt Yunnan University, China Pacific Northwest National Laboratory, USA Universidade de Aveiro, Portugal Deen Dayal Upadhyay Gorakhpur University, India East China University of Science and Technology, China University of Gdańsk, Poland Department of Chemistry University of Chicago, China Chinese Academy of Sciences, China Nanjing University, China

.....

Mohammed V-Agdal University Rabat, Morocco



# **Table of Contents**

Volume 5	Number 1	February 2015
Urena lobata Fl	owers: A Green Route to Volumetric Analysis	
D. Singh, V. S.	Singh	1
Review of Non- Composites	Newtonian Mathematical Models for Rheological Characteristic	s of Viscoelastic
R. Cherizol, M.	Sain, J. Tjong	6
Ceria-Based Mix Cellulose to Sor	xed Oxide Supported CuO: An Efficient Heterogeneous Catalyst bitol	for Conversion of
B. A. Dar, S. Kh	alid, T. A. Wani, M. A. Mir, M. Farooqui	15
Lipase Immobili	ized on Magnetic Nanoparticles: A New Tool for Synthesis of Dis	sulphide Compounds
V. Haritha, H. N	M. Meshram, A. B. Rao	25
-	Interactions in Aqueous Solution of Anionic Surfactants with a <i>Foringa oleifera</i> Seeds	Water Treatment
H. M. Kwaamb	wa, R. Maikokera, F. M. Nermark	
	ynthesis of Pyridine-2,6-bis(2-bromo-propane-1,3-dione) 5-bis(N-arylthiazoline-2-thiones)	
K. A. Ali, M. A.	Elsayed, E. A. Ragab	

The figure on the front cover is from the article published in Green and Sustainable Chemistry, 2015, Vol. 5, No. 1, pp. 31-38 by Habauka M. Kwaambwa, Raymond Maikokera and Fiona M. Nermark.

#### Green and Sustainable Chemistry (GSC)

#### **Journal Information**

#### SUBSCRIPTIONS

The *Green and Sustainable Chemistry* (Online at Scientific Research Publishing, <u>www.SciRP.org</u>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$79 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

#### SERVICES

Advertisements Advertisement Sales Department, E-mail: <u>service@scirp.org</u>

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 © 2015 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 © 2015 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: gsc@scirp.org





# Green and Sustainable Chemistry (GSC)

ISSN Print: 2160-6951 ISSN Online: 2160-696X http://www.scirp.org/journal/gsc

**Green and Sustainable Chemistry (GSC)** covers subjects relating to reducing the environmental impact of chemicals and fuels by developing alternative and sustainable technologies that are non-toxic to living things and the environment. 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 Green and Sustainable Chemistry.

## **Subject Coverage**

This journal invites original research and review papers that address the following issues. Topics of interest include, but are not limited to:

Biotechnology Alternatives
Chemical Aspects of Renewable Energy
Design of New, Greener and Safer Chemicals and Materials
Environmentally Improved Routes and Methods
Flow Chemistry and Continuous Processing
Improved Process Engineering
Improved Production Methods, Formulation and Delivery Systems
Methodologies and Tools for Measuring Environmental Impact
Sustainable Resources
The Use of Biotechnology Alternatives to Chemistry-Based Solutions

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 GSC.

# **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

http://www.scirp.org/journal/gsc E-mail: gsc@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?

Art and Design Review

Advances in

dvances in Biological

Chemistry

Entomology

Applied Mathematics

Engineering

1000

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



Soft

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