

Green and Sustainable Chemistry

$$\begin{array}{c} \text{cat.} \\ \text{MAO} \\ \text{n+m+}(l) = 1 \\ \text{cat.} \\ \text{n-CIC}_6\text{H}_4\text{CO}_3\text{H} \\ \text{m-CPBA} \\ \text{Ti}_{\text{m}}\text{Cl} \\ \text{quant.} \\ \end{array}$$



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 Mohammed V-Agdal University Rabat, Morocco

Editorial Board

Prof. Abbas AfkhamiBu-Ali Sina University, IranProf. Salah AkkalUniversity of Constantine, AlgeriaProf. Nelson BelzileLaurentian University, Canada

Prof. Asim Bhaumik Indian Association for the Cultivation of Science, India

Prof. Pradip K. BhowmikUniversity of Nevada, USAProf. George BratulescuUniversity of Craiova, Romania

Prof. Chieh-Ming James ChangNational Chung Hsing University, Chinese TaipeiProf. Jo-Shu ChangNational Cheng Kung University, Chinese Taipei

Prof. Xiuyun Chuan Peking University, China

Prof. T. C. ChungThe Pennsylvania State University, USAProf. Mircea DarabantuUniversity Babes-Bolyai, RomaniaProf. Zhen FangChinese Academy of Sciences, China

Dr. Majid Ghashang

Prof. Chin-Pao Huang

University of Delaware, USA

Dr. Qilin Huang Huazhong Agriculture University, China

Prof. Mo Hunsen Kenyon College, USA

Prof. William E. Acree Jr. The University of North Texas, USA

Prof. György Keglevich Budapest University of Technology and Economics, Hungary

Prof. Shailendra Kumar Kulshreshtha Atomic Energy Education Society, India

Prof. Roberto Fernández Lafuente Consejo Superior de Investigaciones Científicas, Spain

Prof. Yoon-Sik LeeSeoul National University, South KoreaProf. Silvia LicocciaUniversity of Rome Tor Vergata, ItalyProf. Yangsheng LiuPeking University, China

Dr. Ying-Ling LiuNational Tsing Hua University, Chinese Taipei

Prof. Averous LucUniversity of Strasbourg, FranceProf. Ram S. MohanIllinois Wesleyan University, USAProf. S. V. Ranga NayakuluGuru Nanak Engg College, IndiaProf. Nagatoshi NishiwakiKochi University of Technology, JapanProf. Kotohiro NomuraTokyo Metropolitan University, JapanProf. Yingming PanGuangxi Normal University, ChinaDr. Vilas G. PolArgonne National Laboratory, USA

Dr. Batchu Venkateswara Rao Indian Institute of Chemical Technology, India

or. Batchu venkateswara Rao indian institute of Chemical Technology, india

Prof. Ismael Saadoune Faculty of Science and Technologies Marrakesh, Morocco

Prof. Mohammed Abd El-Dayem SallamAlexandria University, EgyptProf. Zhihui ShaoYunnan University, China

Prof. Yongsoon Shin Pacific Northwest National Laboratory, USA

Prof. Artur Manuel Soares Silva Universidade de Aveiro, Portugal

Prof. Gurdip SinghDeen Dayal Upadhyay Gorakhpur University, IndiaProf. Gonghua SongEast China University of Science and Technology, China

Prof. Piotr Stepnowski University of Gdańsk, Poland

Dr. K. D. Verma Sri Venkateswara P.G. College, India

Dr. Chuan Wang Department of Chemistry University of Chicago, China

Prof. Hongjie Zhang Chinese Academy of Sciences, China

Prof. Jin Zhu Nanjing University, China



Table of Contents

Volume 4	Number 3	August 2014
	n Synthesis of Mixed Ligand Chelates by Using Di- and Trivalent Transition h Schiff Base as Primary Ligand	
A. A. Maihub,	F. S. Alassbaly, M. M. El-Ajaily, A. M. Etorki	103
An Efficient an	d Green Route to Synthesize Azo Compounds through Methyl Nitrite	
K. J. Cai, H. Q.	He, Y. W. Chang, W. M. Xu	111
_	thesis over Polypropylene by Sol-Gel Assisted with Hydrothermal Treatment atalytic Propane Degradation	:
V. Guzmán-Ve	elderrain, Y. O. López, J. S. Gutiérrez, A. L. Ortiz, V. H. Collins-Martínez	120
	roach for Synthesis of Functionalized Polyolefins by Introducing Reactive nto Ethylene Copolymers	
W. Apisuk, K.	Tsutsumi, H. J. Kim, D. H. Kim, K. Nomura	133
High Performa	nce Recycling of Polymers by Means of Their Fluorescence Lifetimes	
H. Langhals,	D. Zgela, T. Schlücker	144
Photoelectroca and Search for	atalytic Oxidation of Ethinylestradiol on a Ti/TiO_2 Electrode: Degradation Eff By-Products	iciency
K. M. Vieira, F	. M. M. Paschoal, M. V. B. Zanoni, C. C. Nascentes, R. Augusti	151
	e-Property Relationship in Self-Crosslinked Non-Derivative Acetic Acid ing Polyurethane Membranes	
B. J. Liu, Z. J. L	i, H. H. Wang	162
Book Review o	f Green Materials for Sustainable Water Remediation and Treatment	

Green and Sustainable Chemistry (GSC)

Journal Information

SUBSCRIPTIONS

The *Green and Sustainable Chemistry* (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 © 2014 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 © 2014 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.

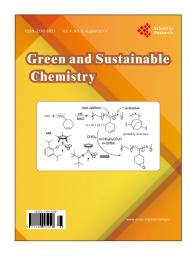
DISCLAIMER OF LIABILITY

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?

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