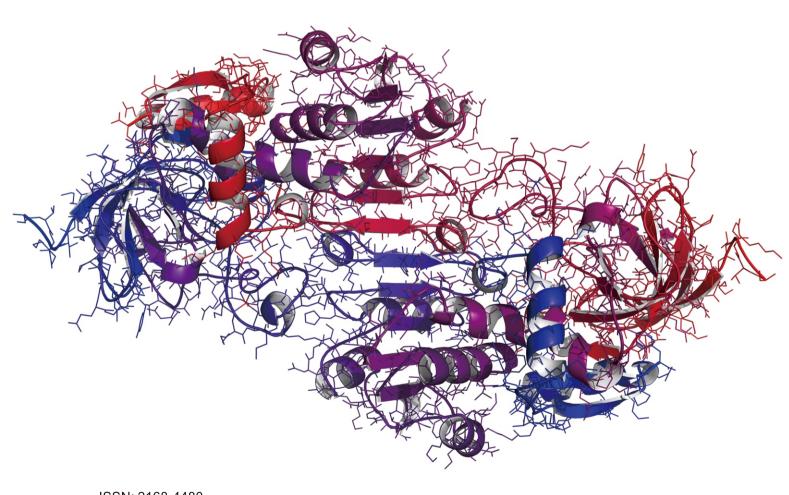




Modern Research in Catalysis





www.scirp.org/journal/mrc

Journal Editorial Board

ISSN: 2168-4480 (Print), 2168-4499 (Online)

http://www.scirp.org/journal/mrc

Editorial Board

Dr. Pedro AguirreUniversity of Chile, ChileProf. Erdogan AlperHacettepe University, Turkey

Dr. Subhash Banerjee Guru Ghasidas Vishwavidyalaya, India

Prof. Apurba Bhattacharya Texas A&M Kingsville, USA

Prof. Yu-Wen Chen National Central University, Chinese Taipei

Prof. Zhengdong ChengTexas A&M University, USADr. Ali GharibIslamic Azad University, Iran

Prof. P. Govindaswamy Indian Oil Corporation Limited, India

Dr. Satish Lakhapatri Codexis, USA

Prof. Chin-Jung LinNational Ilan University, Chinese TaipeiProf. Massoud (Matt) MiriRochester Institute of Technology, USADr. Zeeshan NawazSABIC Technology Center, Saudi ArabiaProf. Ali Asghar RownaghiGeorgia Institute of Technology, USA

Dr. Lakshi Saikia CSIR-North East Institute of Science and Technology, India

Dr. Jing Shang Peking University, China

Prof. Md. Hasan Zahir King Fahd University of Petroleum & Minerals, Saudi Arabia



ISSN Online: 2168-4499 ISSN Print: 2168-4480

Table of Contents

Volume 6 Number 1 January 2017 Synthesis and Characterization of Metal-Doped (Ni, Co, Ce, Sb) CdS Catalysts and Their Use in Methylene Blue Degradation under Visible Light Irradiation Preparation of Novel Complex Nano-Structured Gold Catalyst Au@TiO2/MCM-22, Characterization and Remarkably Catalytic Performance for Cyclohexane Oxidation J. Q. Si, L. Li, Y. J. Zhang, J.-C. Zhou, W. B. Ouyang......15 An Investigation on Kinetics of Photo Catalysis, Characterization, Antibacterial and Antimitotic Property of Electrochemically Synthesized ZnS and ZrS₂/ZnS Nano Photocatalysts Effect of Substitution Degree and the Calcination Temperature on the N₂O Decomposition over Zinc Cobaltite Catalysts B. M. Abu-Zied, S. A. Soliman, S. E. Abdellah. Modification of the Surface Properties of Core-Shell Semiconductors and Their Effects on the Photodecolorization Activity and Adsorption

Modern Research in Catalysis (MRC) Journal Information

SUBSCRIPTIONS

The *Modern Research in Catalysis* (Online at Scientific Research Publishing, <u>www.SciRP.org</u>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 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 © 2017 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 © 2017 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: mrc@scirp.org

Modern Research in Catalysis



Call for Papers

Modern Research in Catalysis

ISSN: 2168-4480 (Print) ISSN: 2168-4499 (Online) http://www.scirp.org/journal/mrc

Modern Research in Catalysis (MRC) is an open access journal published quarterly. 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 all aspects of Catalyst.

Editorial Board

Dr. Pedro Aguirre Prof. Erdogan Alper Dr. Subhash Banerjee Prof. Apurba Bhattacharya Prof. Yu-Wen Chen Prof. Zhengdong Cheng Dr. Ali Gharib Prof. P. Govindaswamy Dr. Satish Lakhapatri Prof. Chin-Jung Lin Prof. Massoud (Matt) Miri Dr. Zeeshan Nawaz Prof. Ali Asghar Rownaghi Dr. Lakshi Saikia Dr. Jing Shang Prof. Md. Hasan Zahir

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous peer-review process. Accepted papers will immediately appear online followed by printed in hard copy. The areas covered by Modern Research in Catalysis (MRC) include but are not limited to the following fields:

- Applications of Catalysts
- Catalysis by Nano-Materials
- Catalytic Function to Fundamental Chemical Processes at Surfaces and in Metal Complexes
- Catalytic Reactions
- Computational Catalysis
- Electrocatalysis
- Enzymatic Catalysis and Spectroscopic Methods for Structural Characterization
- Heterogeneous Catalysis
- Homogeneous Catalysis
- Novel Concepts in Surface Chemistry
- Organocatalysis
- Significant of Catalysis
- Supported Organometallic Catalysis
- Surface Chemistry
- Synthesis and Catalytic Function of Novel Inorganic Solids and Complexes
- Theoretical Methods of the Catalytic Processes

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

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.

Email: mrc@scirp.org

Website and E-Mail

http://www.scirp.org/journal/mrc

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