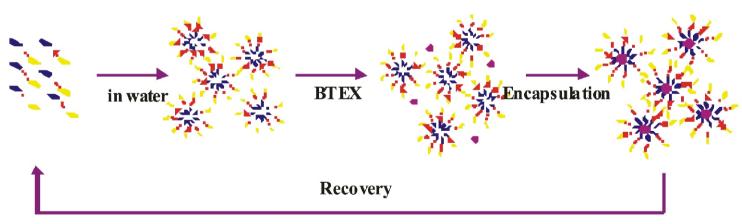
ISSN: 2160-0392 Vol.1, No.2, April 2011



# Advances in Chemical Engineering and Science



**External Temperature Changing System** 



# **Journal Editorial Board**

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

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

.....

#### Editor in Chief

**Prof. SungCheal Moon** Korea Institute of Materials Science (KIMS), Korea (South)

#### **Editorial Board**

Prof. Azzedine Abbaci Université Badji Mokhtar, Algeria

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

Dr. Sampa ChakrabartiUniversity of Calcutta, IndiaProf. Juan A. ConesaUniversity of Alicante, Spain

Prof. Chang-Sik Ha

Pusan National University, Korea (South)

Prof. Hasan Abdellatif Hasan Jordan University of Science and Technology, Jordan

Dr. Christopher J. Koroneos Aristotle University of Thessaloniki, Greece

Prof. Bogdana Koumanova University of Chemical Technology and Metallurgy (UCTM), Bulgaria

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

Prof. Lubomir Lapcik Tomas Bata University in Zlín, Czech

**Prof. Fengshan Liu** National Research Council Canada, Canada

**Dr. Muhammad Mansha** University of Engineering and Technology, Pakistan

Prof. Hamdaoui Oualid University of Annaba, Algeria

Prof. KSMS Raghavarao Central Food Technological Research Institute (CFTRI), India

Prof. Dewey Ryu University of California, USA

Prof. Hristo Sapoundjiev Natural Resources Canada, Canada

Prof. Chi-Min Shu National Yunlin University of Science and Technology, Taiwan (China)

Prof. Georgiy Borisovich Shul'Pin Russian Academy of Sciences, Russia

**Dr. Ajaya Kumar Singh** Government VYT Post Graduate Autonomous College, India

**Dr. Atul Tiwari** University of Hawaii at Manoa, USA

Dr. Neven Ukrainczyk University of Zagreb, Croatia
Dr. Chunliang Wu Louisiana State University, USA

**Dr. Hongwei Wu**Brunel University, UK

**Prof. Wenlei Xie** Henan University of Technology, China

**Prof. Gennady Efremovich Zaikov** N.M.Emanuel Institute of Biochemical Physics Russian Academy of Sciences,

Russia

Dr. An Zhang Biogen Idec, USA

Prof. Hucheng Zhang Henan Normal University, China

#### **Editorial Assistant**

Jiafei Zhao Scientific Research Publishing, USA. Email: aces@scirp.org

#### Advances in Chemical Engineering and Science, 2011, 1, 27-82

Published Online April 2011 in SciRes (http://www.SciRP.org/journal/aces/)



# TABLE OF CONTENTS

Volume 1 Number 2	April 2011
Preparation of Ni-Co Alloy Foils by Electrodeposition	
Y. F. Yang, B. Deng, Z. H. Wen.	27
Preparation of Nano-Modified Polyacrylamide and Its Application on Solid-Liquid Separation in Waste Drilling Mud	
F. H. Wang, J. T. Fan, H. Zhu, K. F. Han, J. Zou, H. Y. Sun.	33
Spectroscopic, Kinetic Studies of Polyaniline-Flyash Composite	
R. Khan, P. Khare, B. P. Baruah, A. K. Hazarika, N. C. Dey	37
Effects of Molar Ratio, Alkali Catalyst Concentration and Temperature on Transesterific of Jatropha Oil with Methanol under Ultrasonic Irradiation	cation
A. P. Vyas, J. L. Verma, N. Subrahmanyam.	45
The Corrosion Protection Behaviour of Zinc Rich Epoxy Paint in 3% NaCl Solution	
N. Hammouda, H. Chadli, G. Guillemot, K. Belmokre	51
Prospect of Natural Gas Utilization in China	
W. Huang, H. J. You.	61
Case Study of Biodiesel-Diesel Blends as a Fuel in Marine Environment	
T. X. Zhang, Y. P. Chao, N. Liu, J. Thompson, M. Garcia, B. B. He, J. Van Gerpen, S. L. Chen	65
Kinetics and Modeling of H <sub>2</sub> S Removal in a Novel Biofilter	
Z. M. Shareefdeen, W. Ahmed, A. Aidan	72
<b>Amphiphilic Block Copolymer for Adsorption of Organic Contaminants</b>	
JW. Choi, KY. Baek, KY. Cho, N. V. Shim, SH. Lee	77

The figure on the front cover is from the article published in Advances in Chemical Engineering and Science, 2011, Vol. 1, No. 2, pp. 77-82, by Jae-Woo Choi, *et al*.

Copyright © 2011 SciRes.

#### **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: \$39 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©2011 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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)

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 intelligent control and automation. 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. SungCheal Moon

Korea Institute of Materials Science (KIMS), Korea (South)

### 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
- Chemicals
- Chemical Engineering Biotechnology
- Chemical Reaction
- Chemical Reaction Related Unit Operations
- 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
- 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.

#### Website and E-Mail

www.scirp.org/journal/aces/

E-mail:aces@scirp.org