

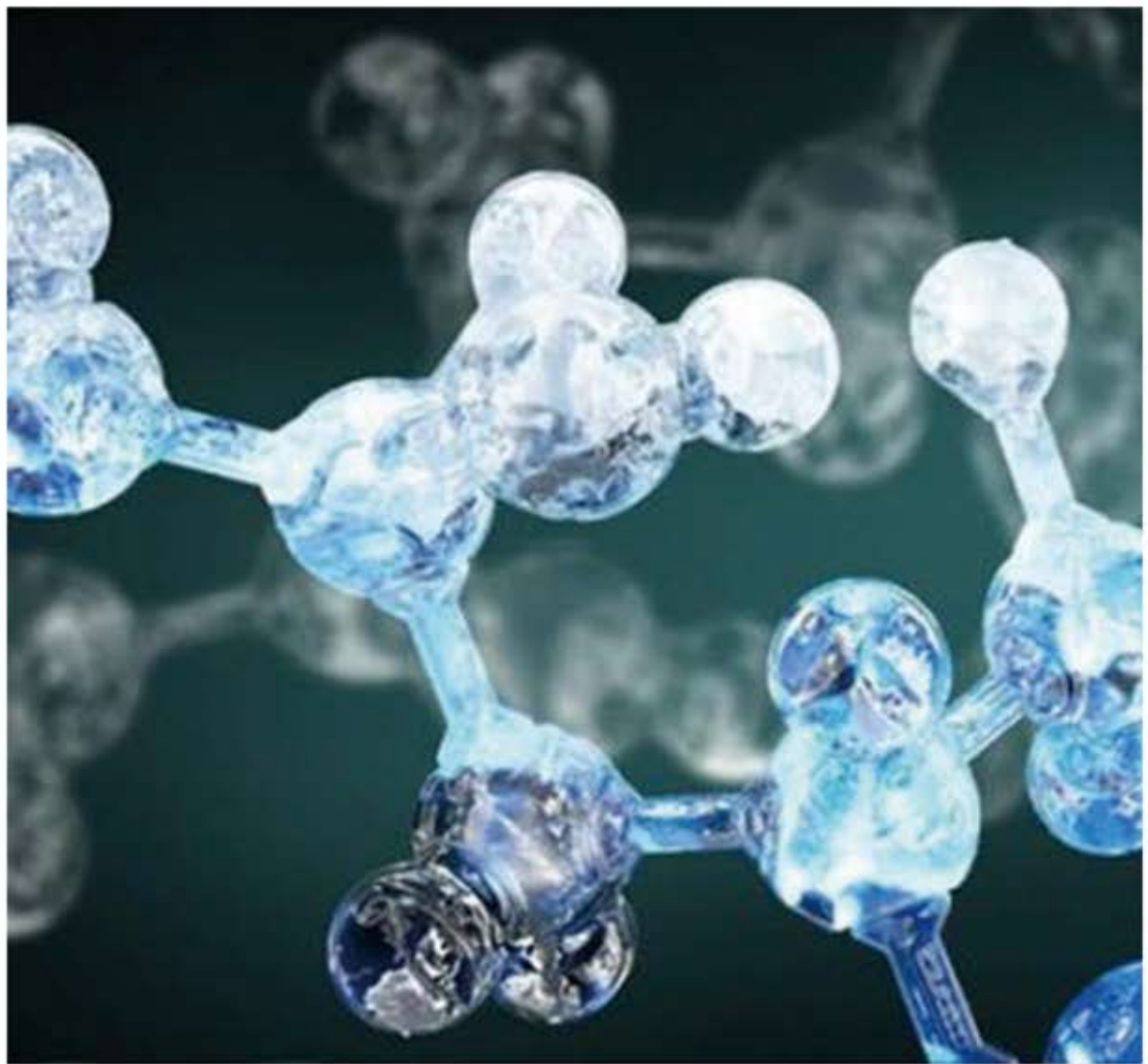


ISAAC SCIENTIFIC  
PUBLISHING

ISSN: 2519-1144 (Print) ISSN: 2519-1004 (Online)

# JOURNAL OF ADVANCES IN NANOMATERIALS

Volume 2, Number 1, March 2017



9 772519 114400

## TABLE OF CONTENTS

Volume 2 Number 1

March 2017

### Revisiting Catalyst Structure and Mechanism in Methanol Synthesis

Zhiyi Wu, Jesse Cole, Howard L. Fang, Meifang Qin, and Zhong He ..... 1

### Magnetic Fe<sub>3</sub>O<sub>4</sub>@G-C<sub>3</sub>N<sub>4</sub> Nanocomposites for Visible Light Photocatalysis of RhB

Peitao Liu, Qiang Xu, Daqiang Gao, Shoupeng Shi, Baorui Xia ..... 11

### Novel Gelatin–Siloxane Nanoparticles Multiple Modified by Cationic Peptide and Aptamers as Efficient Gene Vector

Xin-Hua Tian, Yu-Hua Wang, Feng Wei, Xiao-Ning Lin and Lei Ren ..... 20

### Single Metal of Silver Nanoparticles in the Microemulsion for Recyclable Catalysis of 4-Nitrophenol Reduction

Shizhen Zhao, Liping Duan, Chunlin Xiao, Li Li, Fang Liao ..... 31

### Microscale Transport Phenomena for Bio-Engineering Applications: Recent Advances

C. B. Sobhan, Shijo Thomas, and G. P. Peterson ..... 41

### Low Cost Pyrite (FeS<sub>2</sub>) Nanorod Sensitized Solar Cell

Namanu P, M. Jayalakshmi, K. Udayabhat ..... 60

### Nanostructured Hydroxyapatite Coating on Bioalloy Substrates: Current Status and Future Directions

Gladius Lewis ..... 65

## Journal of Advances in Nanomaterials (JAN)

### EDITOR-IN-CHIEF

**Prof. Yue Li** Chinese Academy of Sciences (CAS), China

### EDITORIAL BOARD

<b>Dr. Sunirmal Jana</b>	CSIR-Central Glass and Ceramic Research Institute, India
<b>Dr. Hanxing Zhu</b>	Cardiff University, UK
<b>Dr. Ajeet Kumar</b>	Clarkson University, USA
<b>Dr. Zhong He</b>	Primus Green Energy, USA
<b>Prof. Mohammad L. Hassan</b>	National Research Centre, Egypt
<b>Dr. Shahid Hussain</b>	Chongqing University, China
<b>Prof. Yuan-Hua Lin</b>	Tsinghu University, China
<b>Prof. Hyoung-In Lee</b>	Seoul National University, Republic of Korea
<b>Dr. Sanjay B. Thorat</b>	University of Trento, Italy
<b>Prof. Guanying Chen</b>	Harbin Institute of Technology, China
<b>Dr. T.N.V.K.V.Prasad</b>	Acharya N G Ranga Agricultural University, India
<b>Prof. Naoto Koshizaki</b>	Hokkaido University, Japan
<b>Prof. Sheng-Rui Jian</b>	I-Shou University, Chinese Taipei
<b>Prof. Meicheng Li</b>	North China Electric Power University, China

### SUBSCRIPTIONS

Journal of Advances in Nanomaterials (JAN) (Online at [www.isaacpub.org](http://www.isaacpub.org)) is published quarterly by Isaac Scientific Publishing. For printed journal subscription, please contact: [service@isaacpub.org](mailto:service@isaacpub.org)  
Subscription rates: \$29 per issue (by air mail)

### ADVERTISEMENTS & REPRINTS

For advertisements and reprints affairs, please contact: [service@isaacpub.org](mailto:service@isaacpub.org)  
The reprints require a minimum quantity of 50 copies.

### PUBLISHER

Isaac Scientific Publishing Co., Limited  
Unit 04, 7/F Bright Way Tower, No. 33 Mong Kok Rd., KL, Hong Kong(China)