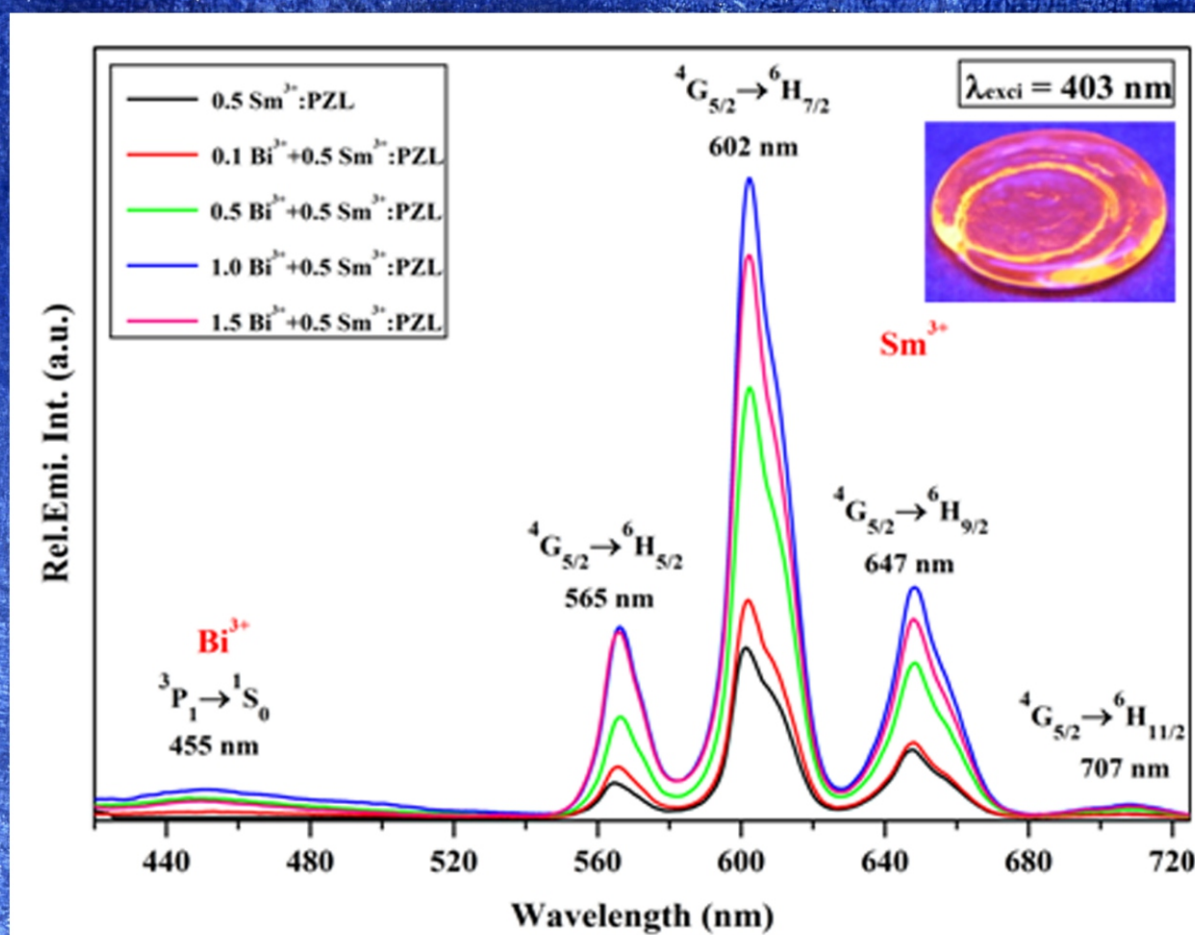


# Advances in Materials Physics and Chemistry



# Journal Editorial Board

ISSN: 2162-531X (Print) ISSN: 2162-5328 (Online)  
<http://www.scirp.org/journal/ampe>

---

## Editor-in-Chief

**Prof. Zhiwen Chen**

## Editorial Board

<b>Dr. Bensely Albert</b>	CMC Americas, Inc., USA
<b>Prof. Adriana Bigi</b>	University of Bologna, Italy
<b>Prof. Luigi Maxmilian Caligiuri</b>	University and Scientific Research, Italy
<b>Dr. Mary Caruso</b>	3M Company, USA
<b>Prof. Changle Chen</b>	University of Science & Technology of China, China
<b>Prof. Haisheng Chen</b>	Chinese Academy of Sciences, China
<b>Dr. Tien-Min Gabriel Chu</b>	Indiana University School of Dentistry, USA
<b>Dr. Byron D. Gates</b>	Simon Fraser University, Canada
<b>Prof. David Hui</b>	University of New Orleans, USA
<b>Dr. Mika Veli Juhani Hukkanen</b>	University of Helsinki, Finland
<b>Prof. Kisuk Kang</b>	Seoul National University, South Korea
<b>Dr. Hong Jin Kim</b>	Samsung Electronics, South Korea
<b>Dr. Ing Kong</b>	RMIT University, Australia
<b>Dr. Jui-Yang Lai</b>	Chang Gung University, Chinese Taipei
<b>Dr. Yong Liu</b>	Micron Technology, USA
<b>Dr. Mathew T. Mathew</b>	Rush University Medical Centre, USA
<b>Dr. Santosh K. Pandey</b>	Iowa State University, USA
<b>Prof. Rakesh Sharma</b>	FAMU-FSU College of Engineering, USA
<b>Dr. Dong Sun</b>	University of Michigan, USA
<b>Dr. Yadong Wang</b>	University of Pittsburgh School of Medicine, USA
<b>Dr. Jun Zhang</b>	University of Nebraska-Lincoln, USA
<b>Dr. Meng Zhang</b>	Philips Lumileds Lighting Company, USA
<b>Prof. Yue Zhang</b>	University of Science and Technology Beijing, China
<b>Prof. Qifa Zhou</b>	University of Southern California, USA

## Table of Contents

**Volume 4    Number 9**

**September 2014**

**Photoluminescence and Energy Transfer Process in Bi<sup>3+</sup>/Sm<sup>3+</sup> Co-Doped Phosphate Zinc  
Lithium Glasses**

C. P. Reddy, V. Naresh, B. C. Babu, S. Buddhudu.....165

**Preparation and Characterization of MMT Doped PVA/SA Polymer Composites**

K. Hemalatha, H. Somashekarappa, R. Somashekar.....172

## **Advances in Materials Physics and Chemistry (AMPC)**

### **Journal Information**

#### **SUBSCRIPTIONS**

The *Advances in Materials Physics and Chemistry* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published monthly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

#### **SERVICES**

##### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

##### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto: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.

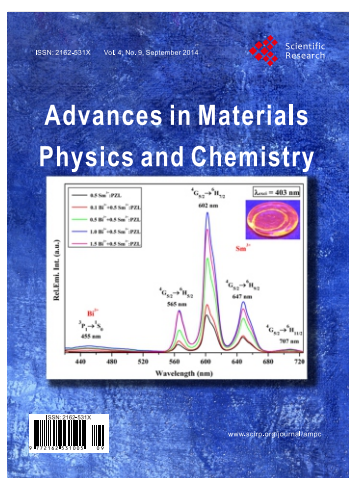
##### **DISCLAIMER OF LIABILITY**

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: [ampc@scirp.org](mailto:ampc@scirp.org)



Call for Papers

# Advances in Materials Physics and Chemistry

ISSN: 2162-531X (Print) ISSN: 2162-5328 (Online)

<http://www.scirp.org/journal/ampc>

**Advances in Materials Physics and Chemistry** contains rapid communications, full-length original research, review articles and comments on interrelationships among synthesis, micro/nanostructures, properties, processing and performance of Materials Science, Physics, and Chemistry. This includes, but is not limited to:

- Biomaterials
- Composite Materials
- Energy Resources Materials
- Environmental Materials
- Fine Ceramics
- Graphene and Carbon
- Magnetics
- Nanodevices
- Nanomaterials
- Nanotechnology
- Optoelectronic Materials
- Polymers
- Quantum Science and Technology
- Semiconductors
- Superconductors
- Surface and Interface Science
- Thin Films

## Editor-in-Chief

**Prof. Zhiwen Chen**

Shanghai University, China

## Editorial Board

Dr. Bensely Albert  
Prof. Adriana Bigi  
Prof. Luigi Maxmilian Caligiuri  
Dr. Mary Caruso  
Prof. Changle Chen  
Prof. Haisheng Chen  
Dr. Tien-Min Gabriel Chu  
Dr. Byron D. Gates

Prof. David Hui  
Dr. Mika Veli Juhani Hukkanen  
Prof. Kisuk Kang  
Dr. Hong Jin Kim  
Dr. Ing Kong  
Dr. Jui-Yang Lai  
Dr. Yong Liu  
Dr. Mathew T. Mathew

Dr. Santosh K. Pandey  
Prof. Rakesh Sharma  
Dr. Dong Sun  
Dr. Yadong Wang  
Dr. Jun Zhang  
Dr. Meng Zhang  
Prof. Yue Zhang  
Prof. Qifa Zhou

## Website and E-Mail

<http://www.scirp.org/journal/ampc>

E-mail: [ampc@scirp.org](mailto:ampc@scirp.org)