# TABLE OF CONTENTS

**Volume 2 Number 2**  
February 2011

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development of Cockleshell-Derived CaCO₃ for Flame Retardancy of Recycled PET/Recycled PP Blend</td>
<td>S. Thumsorn, K. Yamada, Y. W. Leong, H. Hamada</td>
</tr>
<tr>
<td>Biosorption of Cu(II) Ions from Aqueous Solution by Red Alga (<em>Palmaria Palmata</em>) and Beer Draff</td>
<td>Y. Li, B. Helmeiche, H. Horn</td>
</tr>
<tr>
<td>Effect of High Temperature Treatment on Aqueous Corrosion of Low-Carbon Steel by Electrochemical Impedance Spectroscopy</td>
<td>S. J. Gana, N. O. Egibor, R. Ankumah</td>
</tr>
<tr>
<td>Liquid Column Deformation and Particle Size Distribution in Gas Atomization</td>
<td>G. S. E. Antipas</td>
</tr>
<tr>
<td>Potential Energy Curves &amp; Material Properties</td>
<td>D. A. Padmavathi</td>
</tr>
<tr>
<td>Effect of Hydroxide Ion Concentration on the Morphology of the Hydroxyapatite Nanorods Synthesized Using Electrophoretic Deposition</td>
<td>K. A. Khalil, A. A. Almajid, M. S. Soliman</td>
</tr>
<tr>
<td>Facile Synthesis of Polypyrrole/Titanate Core-Shell Nanorods and Their Electrorheological Characteristics</td>
<td>J. X. Zhang, Y. He, L. J. Ji</td>
</tr>
<tr>
<td>Different Approaches of Employing Cholesteric Liquid Crystals in Dye Lasers</td>
<td>G. Chilaya, A. Chanishvili, G. Petriashvili, R. Barberi, M. P. de Santo, M. A. Matranga</td>
</tr>
</tbody>
</table>

The figure on the front cover is from the article published in Materials Sciences and Applications (MSA), 2011, Vol. 2, No. 2, pp. 105-110, by SKhalil Abdelrazek Khalil, Abdulhakim A. Almajid and Mahmoud S. Soliman.
Materials Sciences and Applications (MSA)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $50 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)
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: msa@scirp.org
Call for Papers

Materials Sciences and Applications

ISSN 2153-117X (Print)  ISSN 2153-1188 (Online)
http://www.scirp.org/journal/msa

Materials Sciences and Applications (MSA) is an international refereed journal dedicated to the latest advancement of materials. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas.

Editor-in-Chief
Prof. Young W. Kwon
Naval Postgraduate School, USA

Editorial Board
Prof. Alaa S. Abd-El-Aziz
Prof. Samir A. Abdel-Latif
Prof. Alexander Bagatur'yants
Prof. Huan-Tsung Chang
Dr. Daniying Chen
Prof. Ram N. P. Choudhary
Prof. Jean Ebothe
Prof. Rob Krams
Prof. Qiming Liu
Prof. Athanasios G. Mamalis
Prof. Paolo Maria Mariano
Dr. Eugene N. Matveev

Prof. Bouzid Menaa
Prof. Chunxu Pan
Prof. Su-Seng Pang
Prof. Alexander A. Potapov
Dr. Raj Pal Singh
Prof. Anupam Srivastav
Prof. Deepak Srivastava
Prof. Mustafa Ubeysi
Prof. Gayle E. Woloschak
Prof. Dongfeng Xue
Dr. Raghvendra Singh Yadav
Dr. Fei Zhang

Subject Coverage
This journal invites original research and review papers that address the following issues in materials sciences and applications. Topics of interest include, but are not limited to:

- Biological, Biomechanical and Biomedical Materials
- Composite Materials
- Electrical and Electronics Materials
- Fibers and Matrix Materials
- Functional Materials, including Shape Memory Materials, Self Healing Materials, etc.
- Light Emitting Material
- Magnetic Material
- Materials Chemistry
- Metals and Alloys
- Nanocomposites
- Nanomaterials including Nanostructured and Nanoscale Materials
- Nanosensors
- Nanostructured Materials
- Organic Materials
- Physics, Chemistry, Mechanics and Applications in Materials Science
- Rubber/Elastomeric Materials
- Semiconductor Materials
- Textile Materials
- Thin Film and Coatings

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.

Website and E-Mail
http://www.scirp.org/journal/msa  E-mail: msa@scirp.org