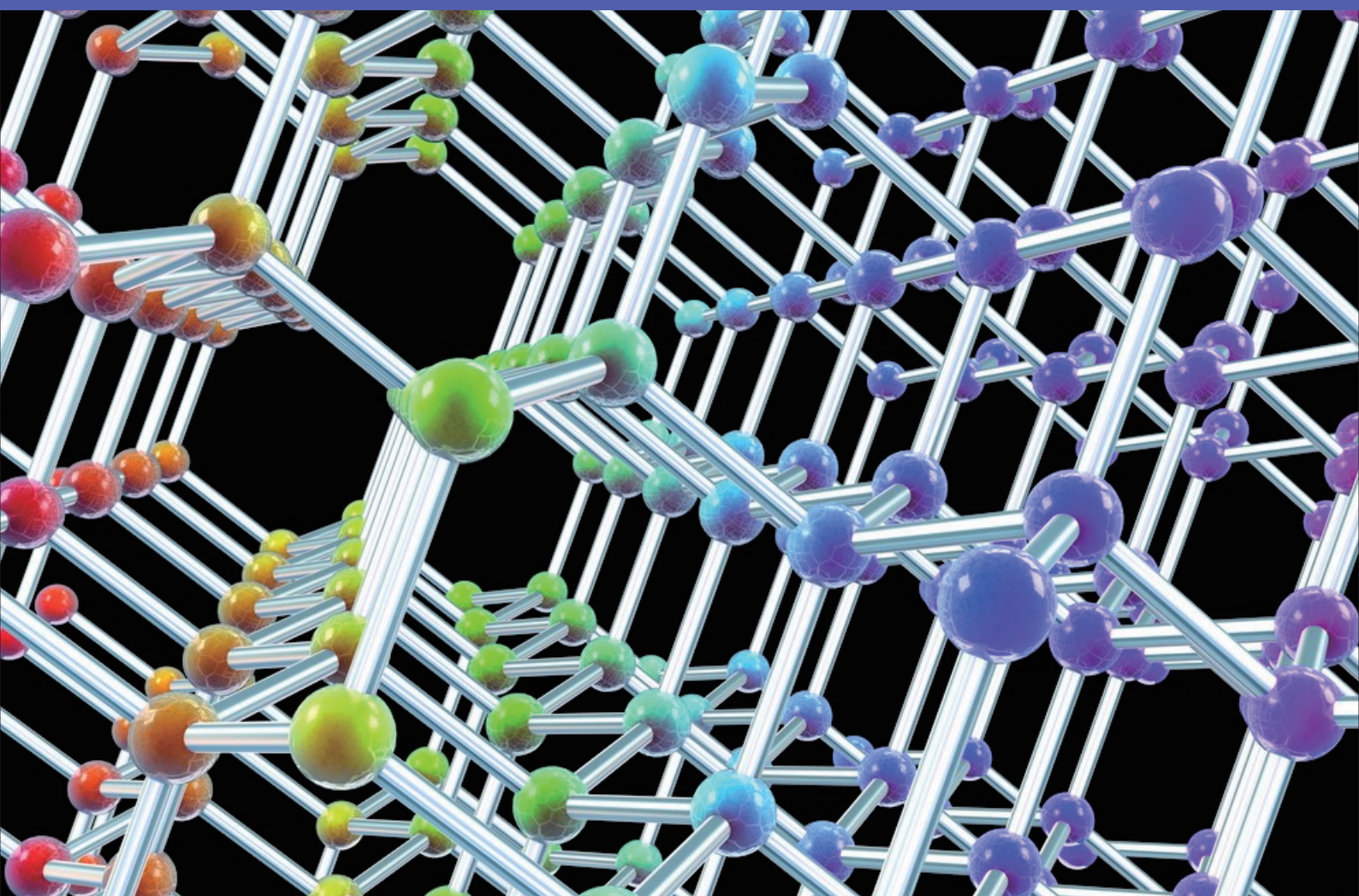


ISSN: 2169-0510 Vol. 1, No. 3, November 2012



Scientific  
Research

# Advances in Nanoparticles



ISSN: 2169-0510



[www.scirp.org/journal/anp](http://www.scirp.org/journal/anp)

# Journal Editorial Board

ISSN 2169-0510 (Print) ISSN 2169-0529 (Online)

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

---

## Editor-in-Chief

**Dr. Virginia Yong** University of California, USA

## Editorial Board

<b>Dr. Zhengdong Cheng</b>	Texas A&M University, USA
<b>Dr. Narayan Chandra Das</b>	Indiana University, USA
<b>Dr. Cristina Femoni</b>	University of Bologna, Italy
<b>Dr. Mauro Comes Franchini</b>	Department of Organic Chemistry A. Mangini, Italy
<b>Dr. M. R. R. Fuente</b>	National Autonomous University of Mexico, Mexico
<b>Dr. Carmen L. Gomes</b>	Texas A&M University, USA
<b>Dr. A. Nirmala Grace</b>	VIT University, India
<b>Dr. Muhammad Delwar Hussain</b>	Texas A&M Health Sciences Center, USA
<b>Dr. R. Vasant Kumar</b>	University of Cambridge, UK
<b>Prof. Ying-Ling Liu</b>	National Tsing Hua University, Chinese Taipei
<b>Dr. Elisabeta Mitran</b>	Louisiana State University, USA
<b>Dr. Ahmed A. Mohamed</b>	Delaware State University, USA
<b>Dr. Akira Otsuki</b>	Curtin University, Australia
<b>Prof. S. N. Sahu</b>	National Institute of Science and Technology, India
<b>Dr. Shirish H. Sonawane</b>	National Institute of Technology, India
<b>Dr. Rajasekaran Swaminathan</b>	Intel Corporation, USA
<b>Dr. Suhe Wang</b>	University of Michigan, USA
<b>Dr. Suying Wei</b>	Lamar University, USA
<b>Dr. Gayle E. Woloschak</b>	Northwestern University, USA
<b>Prof. Wing-Tak Wong</b>	The Hong Kong Polytechnic University, Hong Kong (China)
<b>Dr. Xin-Rui Xia</b>	North Carolina State University, USA
<b>Prof. Mufei Xiao</b>	Universidad Nacional Autónoma de México, Mexico
<b>Prof. Khushwant S. Yadav</b>	Rajeev Gandhi College of Pharmacy, India
<b>Dr. William W. Yu</b>	Rice University, USA
<b>Dr. Xiangwu Zhang</b>	North Carolina State University, USA

## TABLE OF CONTENTS

Volume 1    Number 3

November 2012

**Technical Note: Synthesis and Characterization of Anisotropic Gold Nanoparticles**

T. Grewar, M. Gericke.....15

**Influence of Temperature on Calcium Hydroxyapatite Nanopowders**

A. Zannotto, M. L. Saladino, D. C. Martino, E. Caponetti.....21

**Augmentation of Multifunctional Properties of Cellulosic Cotton Fabric Using Titanium Dioxide Nanoparticles**

M. Gouda, A. I. Aljaafari.....29

**Preparation and Characterization of Nano-Sized ( $\text{Mg}_{(x)}\text{Fe}_{(1-x)}\text{O}/\text{SiO}_2$ ) ( $x = 0.1$ ) Core-Shell Nanoparticles by Chemical Precipitation Method**

M. Ahmadipour, M. Hatami, K. V. Rao.....37

**Lipopolysaccharide Modified Liposomes for Amyotrophic Lateral Sclerosis Therapy: Efficacy in SOD1 Mouse Model**

N. J. Wiley, A. B. Madhankumar, R. M. Mitchell, E. B. Neely, E. Rizk, G. L. Douds, Z. Simmons, J. R. Connor.....44

**Excited State Interaction of Laser Dyes and Silver Nanoparticles in Different Media**

Y. S. El-Sayed, M. Gaber.....54

**Palladium (0) Nanoparticles: A Novel and Reusable Catalyst for the Synthesis of Various Pyran Derivatives**

M. Saha, A. K. Pal.....61

**Preparation of Gold Nanoparticles Loaded Chitin Nanofiber Composite**

Z. Shervani, Y. Taisuke, S. Ifuku, H. Saimoto, M. Morimoto.....71

**Pin Oak (*Quercus palustris*) Leaf Extract Mediated Synthesis of Triangular, Polyhedral and Spherical Gold Nanoparticles**

J. D. Judy, N. V. K. V. P. Tollamadugu, P. M. Bertsch.....79

**One-pot Synthesis of  $\text{TiO}_2$  Nanoparticles in Suspensions for Quantification of Titanium Debris Release in Biological Liquids**

C. Massard, D. Bourdeaux, V. Raspal, E. Feschet-Chassot, Y. Sibaud, E. Caudron, T. Devers, K. O. Awitor.....86

# **Advances in Nanoparticles (ANP)**

## **Journal Information**

### **SUBSCRIPTIONS**

The *Advances in Nanoparticles* (Online at Scientific Research Publishing, [www.SciRP.org](http://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](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©2012 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.

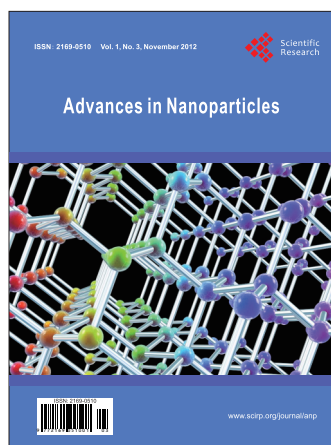
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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



# Advances in Nanoparticles

ISSN 2169-0510 (Print) ISSN 2169-0529 (Online)

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

**Advances in Nanoparticles (ANP)** is a quarterly open access journal. 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 nanoparticle science and technology and their applications.

## 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 *Advances in Nanoparticles (ANP)* include but are not limited to the following fields:

- ▲ Aerosol Nanoparticles
- ▲ Application of Systems, Structures and Devices with Novel Functions Obtained Nanoparticles
- ▲ Biological Nanoparticles and Nanoparticles in Living Systems
- ▲ Block Copolymer Nanoparticles and Polymeric Nanoparticles
- ▲ Catalytic Uses of Nanoparticles
- ▲ Characterization and Measurement of Nanoparticles
- ▲ Colloidal Nanoparticles
- ▲ Core-shell Nanoparticles and Nanoparticle Hybrid Nanostructures
- ▲ Cosmetic Applications of Nanoparticles
- ▲ Energy Applications of Nanoparticles
- ▲ Environmental Impact of Nanoparticles
- ▲ Food Science and Nanoparticles
- ▲ Functionalization of Nanoparticles
- ▲ Fundamental Science and Technology of Nanoparticles
- ▲ Materials and Polymers Containing Nanoparticles
- ▲ Modeling of Nanoparticles
- ▲ Modifications of Surfaces with Nanoparticles
- ▲ Multifunctional Nanoparticles
- ▲ Nanobiotechnology
- ▲ Nanocomposites
- ▲ Nanofabrication and Patterning of Nanoparticles
- ▲ Nanofluidics
- ▲ Nanomedicine and Nanoparticles in Medicine
- ▲ Nanoparticle Beams
- ▲ Nanoparticle Coatings
- ▲ Nanoparticles for Sustainable Growth and in Water Purification
- ▲ Nanoparticles in Decorative Industry
- ▲ Nanoparticles in Nanomachining and Nanoengineering
- ▲ Nanoparticulate Thin Films
- ▲ Nanophotonics
- ▲ Nanosensors
- ▲ Nanotechnology and Nanoelectronics
- ▲ Nanotoxicology
- ▲ Novel Applications of Nanoparticles
- ▲ Self-assembled Nanostructures
- ▲ Surface Functionality of Nanostructures
- ▲ Synthesis and Properties of Nanoparticles

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/anp>

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