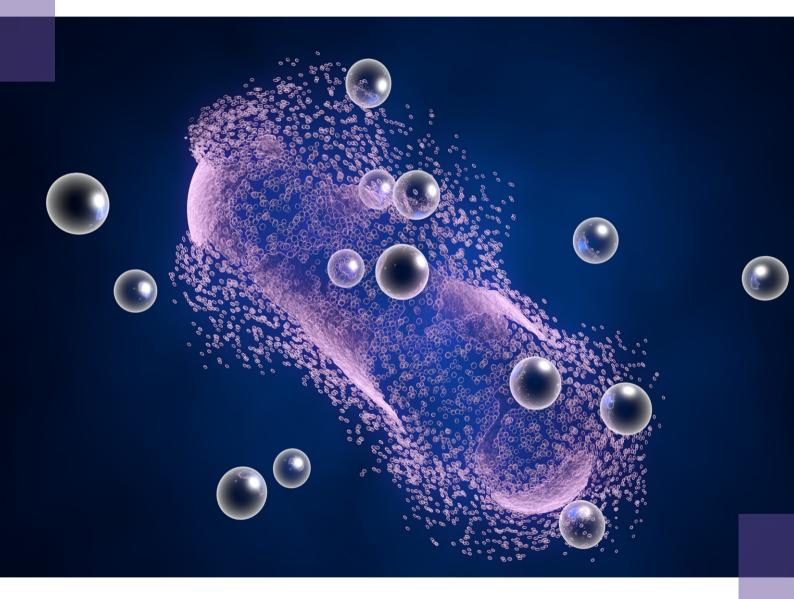


Advances in Nanoparticles





Journal Editorial Board

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

https://www.scirp.org/journal/anp

Editorial Board

Dr. Zhengdong ChengTexas A&M University, USADr. Narayan Chandra DasIndiana University, USADr. Cristina FemoniUniversity of Bologna, Italy

Dr. Mauro Comes FranchiniDepartment of Organic Chemistry A. Mangini, ItalyProf. M. R. R. FuenteNational Autonomous University of Mexico, Mexico

Dr. Carmen L. Gomes Texas A&M University, USA

Dr. A. Nirmala Grace VIT University, India

Prof. Alireza Heidari California South University, USA

Dr. Muhammad Delwar Hussain Texas A&M Health Sciences Center, USA

Dr. Shahid HussainNational Engineering Research Centre for Magnesium Alloys, ChinaDr. Sunirmal JanaSol-Gel Division, Central Glass and Ceramic Research Institute, India

Prof. R. Vasant Kumar University of Cambridge, UK

Prof. Ying-Ling Liu National Tsing Hua University, Chinese Taipei

Dr. Elisabeta MitranLouisiana State University, USADr. Ahmed A. MohamedDelaware State University, USADr. Akira OtsukiCurtin University, Australia

Dr. Vilas G. Pol Argonne National Laboratory, USA
Dr. Shirish H. Sonawane National Institute of Technology, India

Dr. Rajasekaran Swaminathan Intel Corporation, USA

Dr. Suhe Wang University of Michigan, USA

Dr. Suying Wei Lamar University, USA

Prof. Gayle E. Woloschak Northwestern University, USA

Prof. Wing-Tak WongThe Hong Kong Polytechnic University, China

Prof. Mufei Xiao Universidad Nacional Autónoma de México, Mexico

Prof. Khushwant S. Yadav Rajeev Gandhi College of Pharmacy, India

Dr. William W. Yu Rice University, USA

Dr. Xiangwu Zhang North Carolina State University, USA



ISSN Online: 2169-0529

ISSN Print: 2169-0510

Table of Contents

Scientific Research Publishing

Volume 9	Number 3		August 2020
The Use of Zine	Oxide Nanoparticles in Ev	ra to Obtain Food Packing Films	
C. T. de Oliveir	a, J. P. C. Junior, M. I. B. Tavares	s	59

Advances in Nanoparticles (ANP)

Journal Information

SUBSCRIPTIONS

The *Advances in Nanoparticles* (Online at Scientific Research Publishing, https://www.scirp.org/) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 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 and reuse rights for the front matter of the journal:

Copyright © 2020 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 © 2020 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.

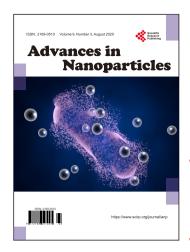
Disclaimer of liability

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: anp@scirp.org



Advances in Nanoparticles

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

https://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 * Nanoparticles in Decorative Industry
- 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 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