

Special Issue

Metallic and Metal Oxide Nanoparticles and Their Applications

Message from the Guest Editors

Metallic and metal oxide nanoparticles possess genuine size- and morphology-related tunable features, including physicochemical versatility, particular reactivity and surface chemistry, unique intrinsic functionality (mechanical behavior, thermal and magnetic features, optical and electric properties, catalytic activity), and specific biological effects (biocompatibility and non-immunogenicity, antioxidant and anti-inflammatory activity, antimicrobial and antitumor efficiency, restorative and regenerative potential). Such characteristics are beneficial for using metallic and metal oxide nanoparticles in environmental applications, the electronics and energy industry, the textile and the food industry, pharmaceutical and cosmetic products, anti-infective and anti-cancer therapy wound healing, and tissue engineering. We warmly invite you to contribute to this Special Issue with your most recent findings on nanosized and nanostructured systems based on noble metals, transition metals and metallic oxides, and quantum dots.

Guest Editors

Prof. Dr. Alexandru Mihai Grumezescu

Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest, RO-011061 Bucharest, Romania

Dr. Oana Gherasim

1. Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, 011061 Bucharest, Romania
2. Lasers Department, National Institute for Laser, Plasma and Radiation Physics, 077125 Magurele, Romania

Deadline for manuscript submissions

closed (31 December 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/78736

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)



About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of
Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General
Chemical Engineering)