



## Biomedical Applications of Metallic and Metal Oxide Nanoparticles

Guest Editor:

**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

Deadline for manuscript  
submissions:

**closed (20 January 2019)**

### Message from the Guest Editor

Dear Colleagues,

In the last few years, nanosized metallic and metal oxide nanoparticles have attracted a great deal of attention in the medical field due to their potential to improve treatments. The main purpose of this Special Issue is to present the current progress and the impacts of metallic and metal oxide nanoparticles in the biomedical field. Additionally, this Special Issue aims to present an up-to-date overview regarding the pros and cons of current biomedical applications of metallic and metal oxide nanoparticles. This Special Issue will highlight recent progress related to the utility of metallic and metal oxide nanoparticles in drug targeting and delivery, cancer treatment, medical imaging and diagnosis, cosmetics, nanobiosensors and other bioapplications.

Dr. Alexandru Mihai Grumezescu  
*Guest Editor*





an Open Access Journal by MDPI

## Editors-in-Chief

### **Prof. Dr. Hugo F. Lopez**

Department of Materials Science  
and Engineering, College of  
Engineering & Applied Science,  
University of Wisconsin-  
Milwaukee, 3200 N. Cramer  
Street, Milwaukee, WI 53211, USA

### **Prof. Dr. Yong Zhang**

Beijing Advanced Innovation  
Center of Materials Genome  
Engineering, State Key  
Laboratory for Advanced Metals  
and Materials, University of  
Science and Technology Beijing,  
30 Xueyuan Road, Beijing 100083,  
China

## Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

## 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)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

## Contact Us

Metals Editorial Office  
MDPI, St. Alban-Anlage 26  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/metals](http://mdpi.com/journal/metals)  
[metals@mdpi.com](mailto:metals@mdpi.com)  
[X@Metals\\_MDPI](https://twitter.com/X@Metals_MDPI)