



an Open Access Journal by MDPI

## Bio-Nanomaterials

Guest Editor:

**Dr. Anton Naumov**

Department of Physics and  
Astronomy, Texas Christian  
University, Fort Worth, TX, USA

Deadline for manuscript  
submissions:

**closed (20 April 2023)**

### Message from the Guest Editor

Nanoscale materials have recently been utilized in a number of different applications in biology, biotechnology and biomedicine, pioneering advances in these fields through the areas of sensing, drug delivery, imaging, and tissue engineering. They have been demonstrated to detect biopathogens and biomarkers, enhance treatment efficacy, protect healthy tissue from the adverse effects of toxic therapeutics, safely deliver genes and genetic medicines to cells and tissues, uncover and/or aid novel aspects of cellular mechanics, reinforce prosthetics and serve as therapeutics on their own. Nanomaterials can be structurally adapted to a particular application and rendered biocompatible while serving several of these applications at once. Such multifunctionality can help address critical issues in biotechnology.

This Special Issue of *Materials* aims to cover the latest advancements in the development of functional nanomaterials for biotechnology as well novel biological applications of existing nanomaterials.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## 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, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

## Contact Us

*Materials* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)