# **Special Issue**

# Preparation, Physico-Chemical Properties and Biomedical Applications of Nanoparticles

## Message from the Guest Editor

The capability to produce nanoparticles in the same size domain as proteins has led to a wide range of applications in the biomedical field. The various applications require precisely defined nanoparticle characteristics related to reaction conditions, particle morphology, chemical composition, and crystallinity, which can be tailored by fabrication strategy, either "topdown" or "bottom-up". Special attention is paid to "green synthesis" techniques and eco-friendly protocols. This Special Issue invites articles in the form of research papers, communications, and reviews. Potential topics include, but are not limited to the following:

- Novel techniques for nanoparticles synthesis and characterization
- Nanoparticles functionalization for biomedical applications
- Nano-carriers for drug and gene controlled delivery
- Nanocomposites for orthopedic and dental applications
- Polymeric nanoparticles
- Magnetic nanoparticles
- Nanoparticles for contrast agents in Medical Imaging
- Antimicrobial agents
- Nanoparticles in endodontics
- Nanoparticles in cosmetics
- Other studies related to nanotechnology associated with biomedical applications.

#### **Guest Editor**

Prof. Dr. Simona Cavalu

Faculty of Medicine and Pharmacy, University of Oradea, Oradea, Romania

Deadline for manuscript submissions

closed (20 April 2022)



an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/50973

Materials
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/ materials





an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed





# **About the Journal**

# 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.

#### Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
 Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## **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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (Condensed Matter Physics)