

Special Issue

Synthesis, Characterization and Applications of Sustainable Advanced Nanomaterials

Message from the Guest Editor

With the rapid development of nanotechnology, nanomaterials have recently attracted the attention of the scientific community due to their unique structural, morphological, optical, electrical, thermal and magnetic characteristics. These enhanced properties are caused by their high surface to volume ratio that is due to their size falling in the 1–100 nm range. Nanomaterials can be metallic based nanoparticles (ferrites, chromates, aluminates, bismutates and others) or carbon oxides (carbon nanotubes, graphenes, graphenes oxides and others). The tailoring of the shape, size and size distribution of nanoparticles, as well as the properties of hybrid nanoparticles is achieved through different synthesis routes by modifying parameters such as pH, concentration of reactants, dopants or stirring speed.

This Special Issue aims to cover a wide array of subjects from dealing with the synthesis, characterization and applications of nanomaterials. It will cover the state-of-the-art of advanced nanoparticles in a large range of disciplines (chemistry, pharmacy, nanomedicine, food science, cosmetics, agriculture, catalysis and environmental science).

Guest Editor

Prof. Dr. Thomas Dippong

Chemistry and Biology Department, Faculty of Sciences, Technical University, 430122 Baia Mare, Romania

Deadline for manuscript submissions

closed (20 December 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/108166

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

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





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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



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

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

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)