

Special Issue

Polymeric and Biopolymeric Particles: Controlled Release of Natural Products

Message from the Guest Editor

This Special Issue is devoted to the application of the polymeric and biopolymeric particles in natural products, which have recently revolutionized the world of medicine, food industry, agriculture, and biotechnology with biocompatible and degradable natural biological materials. Modern measurement techniques used in recent years offer a powerful research tool to characterize the various parameters for a given nanoparticle, such as particle size, surface charge, morphology, stability, structure, cellular uptake, cytotoxicity, drug loading, and drug release. On the other hand, the latest developments in polymeric and biopolymeric particles in improving their efficacy, their methods of fabrication; their characterization in terms of size, surface charge, morphology, stability, structure, cellular uptake, cytotoxicity, drug loading, drug release; and their utilization in medicine and biotechnology are also discussed along with a promising future scope. This Special Issue also supports mechanical and tribological characterization of polymeric and biopolymeric macro-micro-nanoparticles.

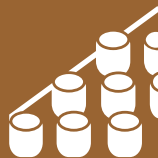
Guest Editor

Dr. Ștefan Țălu

Development and Innovation Management (DMCDI), The Directorate of Research, The Technical University of Cluj-Napoca, Constantin Daicoviciu Street, no. 15, Cluj-Napoca, 400020 Cluj County, Romania

Deadline for manuscript submissions

closed (10 April 2023)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/128892

Materials

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 3.1
CiteScore 5.8
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 - Q1 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q2 (Condensed Matter Physics)