



an Open Access Journal by MDPI

Future Trends and Perspectives of Novel Polymeric Materials and Their Applications

Guest Editor:

**Prof. Dr. Izabela
Barszczewska-Rybarek**

Department of Physical
Chemistry and Technology of
Polymers, Silesian University of
Technology, Strzody 9, 44-100
Gliwice, Poland

Deadline for manuscript
submissions:
closed (31 December 2023)

Message from the Guest Editor

Dear Colleagues,

Polymer-based materials have a superior status in all engineering sciences that attempt to address modern technology requirements. Particular applications require using advanced materials that must comply with the criteria of complex combinations of properties. What is desired most of such materials is they be lightweight, show durability, biocompatibility, biodegradability, and have optoelectrical properties and starting materials that originate from renewable resources. Special attention is also paid to reducing the burden on the natural environment, manufacturing simplicity, and cost efficiency.

This Special Issue is to showcase research regarding the preparation and characterization of novel monomers, polymers, and polymeric materials. Explorations of detailed material characteristics in the context of potential applications and deeper discussions on structure–property relationships are welcome.



mdpi.com/si/165430

Special Issue



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

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)