



Biopolymers: Synthesis, Properties and Biological Applications

Guest Editor:

Dr. Beata Kaczmarek

Department of Biomaterials and
Cosmetic Chemistry, Faculty of
Chemistry, Nicolaus Copernicus
University in Torun, Torun,
Poland

Deadline for manuscript
submissions:

closed (20 April 2023)

Message from the Guest Editor

Biopolymers are naturally derived macromolecules which have found wide acceptance in various industries, on account of their distinguished environment-friendly properties. Biopolymers are now an important part of every sector (food industry, nanotechnology, chemistry, agriculture, etc.). However, their main application is related to biomedical science, as biopolymers are biocompatible and bioresorbable. Natural polymers may be used to obtain different types of materials designed for human health care, such as implants, dressings, drug delivery systems, biocompatible coatings, etc.

In this Special Issue, modern trends in biopolymers synthesis, analysis, and biological studies are highlighted and discussed. This Issue is collecting novel studies related to biopolymers dedicated to biomedical applications. Papers may include physicochemical properties of biopolymeric-based materials, as well as their in vitro and in vivo evaluation.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full research papers, communications, as well as reviews are all warmly welcome.





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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)