



an Open Access Journal by MDPI

Advances in Polysaccharide Biomaterials

Guest Editor:

Dr. Yury A. Skorik

1. Head of the Laboratory of Natural Polymers, Institute of Macromolecular Compounds of the Russian Academy of Sciences, St. Petersburg, Russia
2. Head of the Analytical Chemistry Department, Almazov National Medical Research Centre, St. Petersburg, Russia

Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editor

Dear colleagues,

Natural polysaccharides exhibit excellent characteristics, including biodegradability and biocompatibility that make them extremely attractive for numerous biomedical applications. The presence of different functional groups in polysaccharides allows various chemical modifications that provide virtually limitless options to develop biomaterials that are better suited to specific applications, such as sponges, fibers, films, micro- and nanoparticles, hydrogels, and micelles to suit different needs.

The Special Issue “Advances in Polysaccharide Biomaterials” aims to provide a broad coverage of research progress and up-to-date reviews addressing various fundamental and applied problems of polysaccharide biomaterials. In this Special Issue, we seek contributions from researchers to discuss all aspects of polysaccharide biomaterials, including tissue engineering, regenerative medicine, drug and gene delivery, wound healing, and diagnostics. We intend that the Special Issue will offer a unique platform for the diffusion of new concepts and bio-applications of polysaccharides to continue to motivate further research in the field.



mdpi.com/si/25161

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)