



Polysaccharide-Based Materials: Developments and Properties

Guest Editor:

**Prof. Dr. Andrés Gerardo
Salvay**

Departamento de Ciencia y
Tecnología, Universidad
Nacional de Quilmes, Roque
Sáenz Peña 352, Bernal
B1876BXD, Argentina

Deadline for manuscript
submissions:

25 January 2025

Message from the Guest Editor

The utilisation of bio-based materials has emerged as an innovative alternative to those derived from non-renewable and non-biodegradable resources. In this context, the study and development of new materials are strongly centred on polysaccharides. The sources of polysaccharides are principally those from biomass, such as agricultural derivatives, as well as microorganisms and their metabolic processes capable of producing exopolysaccharides. The significant challenge ahead is to obtain polysaccharide-based materials with functional capacities comparable to those derived from synthetic polymers.

This Special Issue will cover original research and reviews related to polysaccharides and the physicochemical or biotechnological processes aimed at converting these biopolymers into materials like gels, hydrogels, and films for specialised applications, such as adhesives, adsorbents, carriers for bioactive compounds, and coatings. Additionally, it will encompass the study of their properties as well as their applications in packaging, technology, medicine, and other fields.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](https://twitter.com/Polymers_MDPI)