



Recent Advances in Biopolymer Materials: Preparation and Application

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:

closed (25 November 2023)

Message from the Guest Editor

The serious environmental problem caused by the indiscriminate use of non-biodegradable petroleum-based polymers has promoted in recent years the research and the development of new materials that are more sustainable and biodegradable. Particularly, there is a growing interest in renewable and/or biodegradable materials obtained from biopolymers such as polysaccharides and proteins. In this regard, the study of new materials is principally focused on these biopolymers and on the physical–chemical or biotechnological processes to convert these components to materials. The great challenge ahead is obtaining biodegradable biopolymers materials with functional capacities comparable to those of materials obtained from petroleum-derived polymers. This Special Issue will cover research related to advances in the development of new bio-based materials, characterization of their physical–chemical and functional properties, biodegradability, and application in packaging and smart functions.





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