



Polymers from Biomass: Characterization, Modification, Degradation and Applications

Guest Editors:

Prof. Dr. Cesar Alfredo Barbero

Research Institute for Energy Technologies and Advanced Materials (IITEMA), National University of Río Cuarto (UNRC)—National Scientific and Technical Research Council (CONICET), Río Cuarto 5800, Argentina

Dr. Diego Acevedo

Department of Chemical Technology, Faculty of Engineering (UNRC), Research Institute for Energy Technologies and Advanced Materials (IITEMA), National University of Río Cuarto (UNRC)—National Scientific and Technical Research Council (CONICET), Río Cuarto 5800, Argentina

Deadline for manuscript submissions:
closed (30 July 2024)

Message from the Guest Editors

The macromolecules present in biomass (cellulose, lignin, chitin/chitosan, proteins, starch, etc.) are abundant and sustainable (biodegradable, biocompatible and with a low carbon footprint) materials. Moreover, they contain pendant functional groups that can be used to link a variety of functionalities. Such chemical modifications have been extensively employed in order to change the physicochemical properties (hydrophilicity/hydrophobicity, presence of fixed charges, solubility/dispersibility, etc.) of the polymers for industrial applications. In this Special Issue, manuscripts that elucidate classical procedures or the design of novel experimental procedures in order to modify macromolecules from biomass will be accepted. Moreover, studies that focus on the extension of those techniques to the incorporation of different functionalities (optical absorption and fluorescence, redox sites, ion exchange, etc.) in abundant biomacromolecules are welcome.

Special Issue link:

https://www.mdpi.com/journal/polymers/special_issues/1J1LD3JPDD





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](#)