Special Issue

Sustainable and Renewable Polymers from Biomass

Message from the Guest Editor

Successfully transitioning to a circular bioeconomy with viable alternatives to synthetic polymers depends strongly on progress in the areas of sustainable and renewable polymer production and performance. Biopolymers, along with biofuels and biochemicals, are a pillar product class of the emerging biorefineries, with broad potential impact. They can be isolated and used without further modifications, as in the case of lignosulfonates and glucomannans; after conversion to their nanoform, as exemplified by nanocellulose, nanolignin, and nanochitin/chitosan; or after chemical modifications, as in case of starch and cellulose derivatives and lignin-based adhesives and polyurethanes. They can also be depolymerized and biologically or chemically converted to different polymers, such as polyhydroxyalkanoates and polyethylene furanoates, respectively. This Special Issue focuses on the production, characterization, application, recyclability and biodegradability of biopolymers. Studies of interest also include the characterization of biopolymers in situ and throughout processing.

Guest Editor

Dr. Biljana Bujanovic
USDA-FS-Forest Products Laboratory, Madison, WI, USA

Deadline for manuscript submissions

closed (20 December 2023)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/154841

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

About the Journal

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 4.9.

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.

Editor-in-Chief

Prof. Dr. Alexander Böker
Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für Polymermaterialien und Polymertechnologie, Universität Potsdam, Geiselbergstraße 69, 14476 Potsdam-Golm, Germany

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)

MDPI