

Special Issue

Sustainable Bio-Based Polymers: Towards a Circular Bioeconomy

Message from the Guest Editors

The imminent dwindling of fossil resources, the contamination derived from monomer synthesis and large-scale production, as well as important concerns about the safety of these plastics in specific applications are increasing social alarm regarding their common use. Such social concern is driving greener and stricter market policies and legal regulations concerning sustainability. Among them, the idea of a circular bioeconomy is presented as a viable and desirable solution. In particular, the use of by-products and wastes from agriculture, food, forestry, fishery, etc., to produce functional polymers is of special interest. The Special Issue aims to publish original works and reviews about processes and technologies for the fabrication and synthesis of sustainable bio-based polymers and their industrial applications such as food packaging, biomedical devices, textiles, membranes, etc., in terms of a circular bioeconomy. Investigations about the life-cycle analysis of bio-based polymers are also included.

Guest Editors

Dr. José Alejandro Heredia-Guerrero

Dr. Susana Guzman-Puyol

Dr. José Jesús Benítez

Deadline for manuscript submissions

closed (31 December 2020)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/26375

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

[mdpi.com/journal/
polymers](https://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](https://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 4.7.

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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 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)