

# Special Issue

## Biopolymers and Bioplastics

### Message from the Guest Editors

The transition towards “green” alternatives to petroleum-based plastics is driven by the need for “drop-in” replacement materials that can combine the characteristics of existing plastics with biodegradability and renewability features. In this regard, polymers derived from renewable feedstocks would represent a “sustainable” strategy to lessen the environmental burden of conventional plastic production. The proposed Special Issue intends to address several diverse topics related to polymers from renewable sources:

- Processing of biomass feedstocks to produce biobased building blocks for polymer synthesis
- Production, functionalization, and application of microbial polyhydroxyalkanoates (PHA)
- Bio-based polymers and their application in agricultural and industrial sectors
- Circular economy-based approaches for biopolymer production from wastes
- Assessment of sustainability indicators for bio-based polymer production
- Natural additives for bioplastics: plasticizers and functional compounds
- Reactive processing and blending of bioplastics

---

### Guest Editors

Dr. Cinzia Pezzella

Department of Agricultural Sciences, Federico II University, Via Università, 100, 80055 Portici (Napoli), Italy

Dr. Gabriella Santagata

Institute for Polymers, Composites and Biomaterials, National Council of Research, Via Campi Flegrei 34, 80078 Pozzuoli, Italy

---

### Deadline for manuscript submissions

closed (30 November 2021)



## Polymers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/55373](https://mdpi.com/si/55373)

*Polymers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[polymers@mdpi.com](mailto: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 4.9.

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, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)