

## Special Issue

# Synthesis and Characterization of Bio-Based Polymers

### Message from the Guest Editor

It is well known both in the academic as well as the industrial field that polymers, widely known as plastics, are essential to ensure the safety and quality of goods. Polymers are the most important class of materials extensively studied and used for several applications due to their unique properties, such as their light weight, malleability, mechanical strength, gas barrier behavior, ease of process, versatility, and so on. The requirement of new technologies integrated with environmental sustainability has become even more pressing and, between different possibilities, the development of bio-based polymers is one of the fields receiving the most attention. The use of sustainable resources instead of fossil-based resources is seen as one interesting possibility. The aim of this Special Issue is to give an overview of ongoing scientific and industrial research of recent technological breakthroughs in the field of synthesis, characterization, and application of bio-based polymers. Research as well as review articles are welcome.

### Guest Editor

Dr. Valentina Siracusa

Department of Chemical Sciences, Università degli Studi di Catania,  
95125 Catania, Italy

### 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/25273](https://mdpi.com/si/25273)

*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 4.7.

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)