

# Special Issue

## Advance in Bioplastics

### Message from the Guest Editor

The growing environmental issues with non-biodegradable petroleum-based plastics has led to the research and development of bioplastics. The government around the world also responded by developing policies to promote biodegradable plastics. However, challenges remain for bioplastics to meet the performance of the petroleum-based plastics. In other cases, bioplastic materials that are designed to match the mechanical and physico-chemical properties of petroleum-based plastics do not degrade completely under normal composting conditions. This has led to studies attempting to develop bioplastics with appropriate mechanical and physico-chemical properties and biodegradability. This Special Issue will cover research related to the synthesis and characterization, biodegradation, development for packaging and smart applications, techno-economic and life cycle assessment, and policies related to the development of bioplastics.

### Guest Editor

Dr. Bishnu Acharya

Department of Chemical and Biological Engineering, College of Engineering, University of Saskatchewan, Saskatchewan, SK S7N 5A9, Canada

### Deadline for manuscript submissions

closed (15 February 2023)



## Polymers

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/79894](https://mdpi.com/si/79894)

*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)