

## Special Issue

# Advanced Study on Natural Polymers and Their Applications

### Message from the Guest Editors

Natural polymers include polysaccharides, lignin, proteins, nucleic acids, and so on, which are substances made up of large molecules, or macromolecules, that occur naturally in living organisms. Natural polymers have been modified or used as raw materials for the production of biodegradable polymers and biobased polymers or chemicals, such as bioplastics, rubbers, nanofibers, adhesives, and hydrogels. In recent years, there has been a growing interest in utilizing natural polymers for various applications due to their biodegradability, abundance, and sustainability. Their unique properties and sustainability make them an attractive alternative to synthetic polymers. Further research and development in this field can lead to innovative solutions and advancements in various industries. Researchers are exploring ways to modify and process these polymers to enhance their properties and expand their industrial applications. Additionally, the development of natural polymer-based materials can help reduce dependence on petroleum-based polymers and contribute to a more environmentally friendly future.

### Guest Editors

Dr. Xiao-Feng Sun

School of Chemistry and Chemical Engineering, Northwestern Polytechnical University, Xi'an 710129, China

Dr. Arn Mignon

Smart Polymeric Biomaterials—Biomaterials and Tissue Engineering @ Campus Group T Leuven, KU Leuven, Andreas Vesaliusstraat 13, 3000 Leuven, Belgium

### Deadline for manuscript submissions

31 December 2025



## Polymers

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/206170](https://mdpi.com/si/206170)

*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)