



## Advances and Applications in Cellulose-Based Polymers and Polymer Fibers

Guest Editors:

### Dr. Duanchao Wang

1. Department of Chemistry,  
Zhejiang University, Hangzhou,  
China  
2. ZJU-Hangzhou Global  
Scientific and Technological  
Innovation Center, Hangzhou,  
China

### Prof. Dr. Houyong Yu

MOE Key Laboratory of Advanced  
Textile Materials and  
Manufacturing Technology,  
Zhejiang Sci-Tech University,  
Hangzhou, China

Deadline for manuscript  
submissions:

**15 September 2024**

### Message from the Guest Editors

Dear Colleagues,

Cellulose is the most abundant naturally occurring polymer on the planet and is characterized by sustainability, excellent mechanical properties, chemical modification, and biocompatibility. These physical and chemical properties of cellulose provide a rich and well-coordinated platform for the fabrication of both itself and cellulose-based polymers. Therefore, research on cellulose-based polymers remains a hot topic at present. In addition to cellulose fibers, synthetic polymer fibers also play a pivotal role in the modern society by inheriting the functions and upgrading some of the properties of natural fibers. The aim of this Special Issue is to collect research results related to cellulose-based polymers and polymer fibers in order to demonstrate interesting chemical designs, structural materials, and high-performance applications. This Special Issue is planned to include both advanced applications and improved traditional applications of cellulose-based polymers and polymer fibers, regardless of the type of application. Reviews related to this topic are also welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien  
und Polymertechnologie,  
University of Potsdam, 14476  
Potsdam-Golm, Germany

## 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 5.0.

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.

## 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)

## Contact Us

---

*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/polymers](http://mdpi.com/journal/polymers)  
[polymers@mdpi.com](mailto:polymers@mdpi.com)  
[X@Polymers\\_MDPI](#)