

## Special Issue

# Advanced Polymeric Materials for Medical Applications

### Message from the Guest Editor

Polymers and their composites are some of the most widely used materials in the field of biomedical sciences due to their vast potential for loading various functional moieties, thereby enabling their medical applications. These biofunctional polymers exhibit unique shapes, various physical–chemical properties, bioadhesion, tissue guiding, biocompatibility, biospecifically binding, biodegradability, and biological activity, making them useful in different biomedical applications. The continuous advancement of medical and pharmaceutical technology has boosted the research of novel and intelligent polymeric materials with outstanding properties. This makes the construction and preparation of polymer materials with specific functions particularly crucial. This Special Issue aims to provide a comprehensive presentation on advanced design methods, synthetic approaches to polymeric materials and their medical applications, especially addressing fields such as drug delivery, gene transfection, tissue engineering, biosensing, biomedical imaging and diagnostics, disease detection, and therapy. Both original articles and reviews are welcome.

### Guest Editor

Dr. Jingyi Zhu

School of Pharmaceutical Sciences, Nanjing Tech University, Nanjing 211816, China

### Deadline for manuscript submissions

25 November 2025



## Polymers

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



[mdpi.com/si/220143](https://mdpi.com/si/220143)

*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)