

Special Issue

Biopolymer-Based Materials in Medical Applications

Message from the Guest Editors

Biopolymer-based materials are materials that are primarily composed of biopolymers, which are natural polymers produced by living organisms. These polymers can be derived from renewable resources such as plants, animals, or microorganisms. In recent years, the use of biopolymer-based materials has steadily increased due to their high demand in medical applications. These materials play a significant role in various medical applications due to their biocompatibility, biodegradability, and versatility. The applications of biopolymer-based materials include drug delivery systems, tissue engineering, wound dressings, surgical sealants and adhesives, orthopedic implants, dental applications, diagnostic devices, vaccine delivery, and so on. Since the demand for polymers in medical applications has been significantly increasing, further advanced research on extracting biopolymer-based materials, exploring new materials, and developing the biopolymer-based materials industry is particularly important.

Guest Editors

Prof. Dr. Hsiuying Wang

Institute of Statistics, National Yang Ming Chiao Tung University,
Hsinchu 300093, Taiwan

Prof. Dr. Pengchao Zhang

State Key Laboratory of Advanced Technology for Materials Synthesis
and Processing, Wuhan University of Technology, Wuhan 430070,
China

Deadline for manuscript submissions

closed (30 June 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/194422

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 4.9.

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

Fraunhofer-Institut für Angewandte Polymerforschung, Lehrstuhl für
Polymermaterialien und Polymertechnologie, Universität Potsdam,
Geiselbergstraße 69, 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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)