



## Smart Polymers for Biomedical Applications: Challenges and Opportunities

Guest Editors:

**Dr. Mohammad Reza Saeb**

Department of Pharmaceutical Chemistry, Medical University of Gdańsk, Poland

**Dr. Mohsen Khodadadi Yazdi**

Division of Electrochemistry and Surface Physical Chemistry, Faculty of Applied Physics and Mathematics, Gdańsk University of Technology, Gdańsk, Poland

**Dr. Payam ZarrinTaj**

Department of Biomedical and Pharmaceutical Science, University of Montana, Missoula, MT 59812, USA

Deadline for manuscript submissions:

**31 January 2025**

### Message from the Guest Editors

Dear Colleagues,

Nowadays, advanced biomaterials are the result of a combination of engineered biomaterials and manufacturing techniques. Therefore, advanced biomaterials of the current generation are multifunctional and multi-stimuli-responsive for targeted applications, which are named ‘smart biomaterials’. A wide variety of biodegradable and renewable polymers have undergone innovative approaches for designing smart biomaterials, but bringing about advantages and disadvantages. To highlight the necessity of collecting, analysing and sharing new ideas as well as integrating the results of surveys on advanced functional and smart biomaterials in biomedical applications, the journal of *polymers* from MDPI invites experts to publish the results of their surveys and research works in this Special Issue. In order to obtain a wider window of possibility in brainstorming, communicating, and publishing the latest outcomes of researchers and scientists of this field, we welcome original regular papers, review papers, perspectives, commentaries and short communications as possible kinds of contributions to this Special Issue.





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](#)