



Hydrogels for Biomedical and Structural Applications

Guest Editor:

Prof. Dr. Mohamad Al-Sheikhly

Laboratory for Radiation and
Polymer Science, Department of
Materials Science and
Engineering, A. J. Clark School of
Engineering, University of
Maryland, College Park, MD
20742-2115, USA

Deadline for manuscript
submissions:

30 July 2024

Message from the Guest Editor

Polymers and polymer composites have been the essential components for almost all hydrogels used in advanced biomedical applications. Their applications in biomedical applications have covered a wide range of areas, including drug delivery systems, medical imaging, chemical and biological sensors, enzymes immobilized in the hydrogel microspheres, self-assembly-based technologies, hydrogel-bio-nanoreactors, building blocks of scaffolds for tissue engineering, mimicking soft human tissues, and last but certainly not least the new frontiers on the implementations of hydrogels in preventing corrosions of the stainless steel rebars. Manuscripts which present novel copolymer and polymer composite hydrogels for advanced technologies will also be considered in this issue. There are even more pioneering research programs investigating other emerging applications where polymer hydrogels are being considered.

This Special Issue will publish only groundbreaking and new results on the synthesis, characterizations, and implementations of polymer hydrogels.





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 (*Polymers and Plastics*)

Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
[X@Polymers_MDPI](https://twitter.com/Polymers_MDPI)