

Special Issue

Advanced Manufacturing of Polymeric Biomaterials

Message from the Guest Editors

Polymeric biomaterials, including synthetic polymers, biopolymers, and their composites used in biomedical applications, are critical to the performance of, for example, capsules for drug delivery, implants for regenerative medicine, surgical tools, and lab-on-a-chip for diagnostics. The particular requirements for biomedical applications, e.g., biocompatibility and potentially biodegradable, could not only be achieved by the selection of materials, but also by advanced manufacturing processes. The advanced manufacturing of polymer biomaterials, including 3D printing laser cutting and engraving, electrosinching, freeze casting, etc., could achieve the custom design of polymeric biomaterials across different scales, including their composition, internal microstructure, surface and interfaces, and macroscopic geometry, and consequently their structural and functional properties. This Special Issue aims to present various reviews and perspectives which explore the advanced manufacturing of polymeric biomaterials. Experimental and simulation approaches are both welcomed. We will appreciate your contributions to this Special Issue.

Guest Editors

Dr. Qianming Lin

Prof. Dr. Chao Zhang

Dr. Kaiyang Yin

Deadline for manuscript submissions

closed (25 November 2024)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/144581

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 4.7.

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)