

Special Issue

Polymer-Based Materials for Drug Delivery and Biomedical Applications

Message from the Guest Editors

In recent decades, the development of drug delivery systems based on natural and synthetic polymers is rapidly emerging in different biomedical fields. We are pleased to invite you to submit original papers and reviews in the research areas may include (but are not limited to) the following: the fabrication and functionalization of polymer-based materials and systems; characterization of chemical and physical properties, biodegradability, bioavailability, controlled drug release; polymeric carriers for drug delivery and targeted drug delivery; in vitro and in vivo assays, medical and pharmaceutical application, regenerative medicine, biomedicine, antimicrobial, theranostic and cancer application and multifunctional properties.

Keywords

- natural and synthetic polymers
- polymer-based materials
- polymer drug carriers
- nanotechnology and nanofabrication
- drug delivery
- controlled drug release
- anticancer therapy
- antimicrobial polymer materials
- regenerative medicine
- multifunctional properties

Guest Editors

Dr. Elena D. Nikolskaya

Emanuel Institute of Biochemical Physics of Russian Academy of Sciences, Moscow 119334, Russia

Dr. Maria Lomova

Science Medical Centre, Saratov State University, Saratov 410012, Russia

Deadline for manuscript submissions

closed (30 April 2025)



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/161613

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)