Special Issue

Advances in Multifunctional Polymeric Spheres and Their Applications

Message from the Guest Editors

Polymer-based nano- and microspheres have garnered significant attention due to their diverse applications, ranging from drug delivery systems in biomedicine to efficient sorbents in environmental remediation. Recent advancements in fabrication techniques, including electrospinning and emulsion polymerization, allow for precise control over their size and surface characteristics, further enhancing their performance. Additionally, chemical modifications enable the precise control of polymeric spheres for specific applicationse. Composite formations with inorganic materials offer the possibility to explore systems that exhibit enhanced functionalities, paving the way for innovations in nanomedicine, tissue engineering, biosensing and other important industrial applications. Implementing sustainability policies is also a concern for scientists, resulting in the need to develop biodegradable polymers and recycling strategies. The aim of this Special Issue is to examine the state of the art in this field and establish new future directions that are vital for the advancement of scientific knowledge and practical applications in various disciplines.

Guest Editors

Prof. Dr. Robert Pazik

Department of Biotechnology, Institute of Biology and Biotechnology, College of Natural Sciences, University of Rzeszow, Pigonia 1, 35-310 Rzeszow, Poland

Dr. Emilia Zachanowicz

Polymer Engineering and Technology Division, Wroclaw University of Technology, Wroclaw, Poland

Deadline for manuscript submissions

25 May 2026

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/234672

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

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

MDPI