

Special Issue

Engineered Polymeric Particles for Next-Generation Nanomedicine

Message from the Guest Editor

The issue highlights state-of-the-art methodologies for fabricating polymeric particles with controlled sizes, architectures, surface functionalities, and responsive behaviors. Contributions address emerging technologies such as stimuli-responsive polymers, bioinspired and biomimetic designs, hybrid polymer-inorganic systems, and advanced fabrication techniques including microfluidics and controlled self-assembly.

A central theme is the translation of these engineered particles into next-generation nanomedicine. Research and review articles examining their use in targeted and sustained drug delivery, gene and nucleic acid transport, immunomodulation, imaging and theranostics, minimally invasive treatments, and tissue engineering are of interest. In addition, special attention is given to the integration of specific ligand-functionalized polymeric nanocarriers for targeted therapy approaches, and smart polymer particles sensitive to different stimuli, such as pH, temperature, light, etc., from *in vitro* to *in vivo* investigations.

Guest Editor

Prof. Dr. Leonard Ionut Atanase

1. Department of Biomaterials, Faculty of Medical Dentistry, "Apollonia" University of Iasi, 700511 Iasi, Romania
2. Academy of Romanian Scientists, 050045 Bucharest, Romania

Deadline for manuscript submissions

30 June 2026



Polymers

an Open Access Journal
by MDPI

Impact Factor 4.9

CiteScore 9.7

Indexed in PubMed



mdpi.com/si/262611

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

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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

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