

## Special Issue

# Advanced Polymeric Biomaterials for Drug Delivery Applications

### Message from the Guest Editor

The traditional forms of drug administration are often associated with low efficacy and side effects. Due to this, controlled drug delivery systems (DDSs) began to be designed and customized according to the specific therapeutic compound. DDSs include micro- and nano-sized delivery systems, as well as 2D or 3D hydrogels. Developed DDSs have been revealed to be able to preserve bioactive agents' safety, increase their efficacy, control their release kinetics, and keep the concentration of the drug within the desired therapeutic range. Several polymers have been developed and employed for the development of DDSs. The present Special Issue welcomes contributions in the form of original research articles, preclinical investigations, or review articles on the broad topic of Advanced Polymeric Biomaterials for DDSs, with a focus on any aspect regarding micro- and nano-sized DDS synthesis methods, including the development of advanced biomaterials, polymeric structure modification and customization, effective production processes, and innovative strategy modifications.

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### Guest Editor

Dr. Nunzia Gallo

Department of Engineering for Innovation, University of Salento, Lecce, Italy

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### Deadline for manuscript submissions

30 September 2026



## Polymers

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Impact Factor 4.9  
CiteScore 9.7  
Indexed in PubMed



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

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### 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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