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 nanosized 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.

Guest Editor

Dr. Nunzia Gallo

Department of Engineering for Innovation, University of Salento, 73100 Lecce, Italy

Deadline for manuscript submissions

31 March 2026



Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed



mdpi.com/si/233389

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



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

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)

