



Biodegradable Polymers for Drug Delivery Applications

Guest Editors:

Dr. Cristina Minnelli

Department of Life and
Environmental Sciences,
Polytechnic University of Marche,
60121 Ancona, Italy

Dr. Emiliano Laudadio

Department of Science and
Engineering of Materials,
Environment and Urban
Planning, Polytechnic University
of Marche, 60121 Ancona, Italy

Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editors

The use of polymers has increasingly acquired a crucial role in drug delivery systems. Biodegradable polymers can offer the possibility to select the appropriate polymeric materials based on the chemical nature of drugs and on its application. Hyaluronic acid (HA), chitosan, and polylactic acid (PLA) are some of the widely biodegradable polymers used in the drug delivery field. The size of polymers can be different in relation to the drug-loading approach and the biological target, allowing to avoid fast clearance upon intravenous administration, prolong circulation half-life, and at the same time, increasing the probability of crossing various biological barriers and preventing accumulation in capillaries and/or other organs. The use of biodegradable polymers modulates the pharmacokinetic properties of various active substances due to the subcellular size of systems. Polymers vectors can be developed with different molecular organizations, for example, linear or branched, at following different macromolecular structures, for example, micelles or nanoparticles.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

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 5.0.

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.

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)

Contact Us

Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/polymers
polymers@mdpi.com
X@Polymers_MDPI