Special Issue

Polymer Materials in Biomedical Application II

Message from the Guest Editors

This Special Issue is devoted to polymer-based materials suitable as functional vehicles for drugs. Bio-based polymers have been used and extensively studied in various applications in recent years. For example, as candidates for drug delivery application, materials must be biocompatible, biodegradable, nonimmunogenic, non-toxic, and environmentally friendly. Incorporating a biologically active compound into the polymeric matrix can prevent degradation, control release, improve absorption, enhance the therapeutic effect, and potentially decrease the frequency of administration. In the design of suitable bio-based polymeric drug delivery systems, the following vital aspects must be considered: these materials should not produce an inflammatory reaction, should have suitable mechanical properties for their intended use, their degradation time should be under their function, and they should exhibit an appropriate permeability for the designed application. The biomedical polymers exhibit a far-reaching variability in their physical and chemical characteristics, allowing for adjusting their biocompatibility, bioactivity, stimuli responsiveness, biodegradability, etc.

Guest Editors

Dr. Faisal Raza

Dr. Muhammad Ovais

Dr. Carmine Coluccini

Deadline for manuscript submissions

closed (15 September 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/114517

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 4.7.

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)

MDPI