



Biopolymers for Drug Delivery and Tissue Engineering

Guest Editors:

Dr. Jasmin Monpara

Department of Pharmaceutical Sciences, Saint Joseph's University, Philadelphia, PA, USA

Dr. Pardeep K. Gupta

Department of Pharmaceutical Sciences, Saint Joseph's University, Philadelphia, PA, USA

Dr. Gagan Kaushal

Department of Pharmaceutical Sciences, Thomas Jefferson University, Philadelphia, PA, USA

Deadline for manuscript submissions:

31 December 2024

Message from the Guest Editors

Natural and synthetic biomaterials have been extensively utilized in drug delivery and tissue engineering applications. The versatility of biomaterials has allowed researchers to modulate their physicochemical properties to achieve desired behavior in vivo, such as the stimuli-responsive release of the encapsulated therapeutic agent or controlled release of the active agent at a predetermined rate. Conjugated biomaterials allow tissue-specific targeting of the active agent, thereby improving therapeutic effectiveness and reducing off-target effects. Hydrogel-forming biomaterials have shown tremendous success in tissue engineering, 3D bioprinting, and drug delivery. The nano or microparticles resulting from the self-assembly of biomaterials have proven efficacy in treating or diagnosing various diseases, including cancer, viral infections, Alzheimer's disease, etc.

We invite researchers involved in synthesizing and characterizing novel biomaterials for potential drug delivery or tissue engineering application to contribute to this Special Issue.





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