Special Issue

Immunomodulatory Biopolymers: From Drug Development to Successful Clinical Translation

Message from the Guest Editors

One of the most striking issues with conventional drug-delivery polymers is the elicitation of an immune response upon application in vivo. Different natural and artificial polymers have been used for various biomedical applications ranging from the delivery of drugs, metabolites, and genes to wound healing and regenerative medicine. However, most of these polymers suffer due to a compromise on immunogenicity and their respective biomedical applications. Although polymers from biomaterials of different origins have shown promise due to their animal origin, their immunogenicity, however small, is still a concern for their clinical translation. Novel polymers demonstrate good biocompatibility, controllable stiffness for cell culture, and design flexibility, putting them in the spotlight for immunomodulation over the past few decades.

This Special Issue will be dedicated to the presentation of novel biopolymers and micro/nanoparticles to address lacunae in the field that will truly transform drug delivery and long-term regenerative applications of biomaterials, biopolymers, and polymer conjugates.

Guest Editors

Dr. Shabir Hassan

Department of Biology, Khalifa University, Abu Dhabi P.O 127788, United Arab Emirates

Dr. Amir K. Miri

Advanced Biofabrication Lab, Department of Biomedical Engineering, New Jersey Institute of Technology, Newark, NJ 07102, USA

Deadline for manuscript submissions

closed (15 January 2023)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/129833

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

MDPI

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)