Special Issue

Polymer Scaffolds for Tissue Engineering

Message from the Guest Editors

Tissue engineering, which aims to restore, maintain, or improve tissue function, has been one of the most rapidly expanding interdisciplinary fields during the past few decades. Polymer scaffolds play a key role in a typical tissue engineering approach by providing initial structural support for cell adhesion and serving as a template for tissue formation. Properties of synthetic polymers including biodegradability, hydrophilicity, and mechanical properties can be tailored to specific requirements of a tissue engineered construct. Specifically, cell–material interactions such as cell adhesion, proliferation, migration, and differentiation can be modulated further by functionalization of the polymer. We invite authors to submit original research articles as well as review articles that will stimulate the continuing efforts in developing new polymer scaffolds for tissue engineering. Of particular interest for this Special Issue are bioactive, functional polymer scaffolds that interact with biological systems.

Guest Editors

Dr. Jin-Jia Hu

Department of Mechanical Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

Dr. Solaiman Tarafder

Department of Mechanical Engineering, South Dakota State University, Brookings, SD 57007, USA

Deadline for manuscript submissions

closed (30 September 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.7
CiteScore 8.0
Indexed in PubMed

mdpi.com/si/54921

Polymers
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 4.7
CiteScore 8.0
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