

Special Issue

Biocompatible Polymers and Composite Materials for Biomedical Applications

Message from the Guest Editors

The application of polymers and polymer-based composite materials is essential and indispensable in modern biomedicine. This Special Issue is, for example, of interest with regard to the surface modification of additive manufactured novel or enhanced biocompatible polymer structures, and for polymer structures utilized in medical devices. Improvements can manifest as higher efficiency filters or superior cell cultivation with enhanced antibacterial properties and simultaneous non-cytotoxicity in the case of implants. Moreover, we are searching for articles addressing creative polymer-based drug delivery systems with innovative drug encapsulation or incorporation systems with the potential for long-term drug release or smart drug release approaches. This Special Issue also aims to present the current state of the art in the new research field of “smart” implants.

Keywords: biomedical applications; biocompatibility; additive manufacturing; drug delivery; coatings; polymer structures; biopolymers; hydrogels; surface modification; polymer composites

Guest Editors

Prof. Dr. Sergei I. Tverdokhlebov

Prof. Dr. Irina Kurzina

Dr. Sven Rutkowski

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

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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

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