Special Issue

Advanced Functional Polymeric Materials for Biomedical Applications

Message from the Guest Editors

The design, fabrication, and biomedical applications of bioactive polymers represent one of the developing fields of science. The knowledge of tailoring polymers has allowed researchers to produce numerous multi-functional biomaterials and find diverse biomedical applications, such as drug delivery, bioimaging, tissue engineering, etc. The insights into the nano- or micro-level changes, such as molecular bond arrangement and morphology, provide information about macroscopic properties of polymeric materials, such as shape, color, and functionality, which determine cell–biomaterial interaction and biocompatibility. Smart polymers are sensitive to external environments, including chemicals, light, temperature, and magnetic or electrical fields. Due to the emerging technologies, biocompatible polymers have been fabricated in different forms, such as thin film, nanoparticles, composites, hydrogel, nanofiber mat, 3D-printed gel, and organs-on-chips. The present Special Issue welcomes contributions in the form of articles, reviews, or communication on the broad topic of design and fabrication of advanced functional polymeric materials for diverse biomedical applications.

Guest Editors

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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
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