Special Issue

Biomedical Polymers: Synthesis, Characterization, and Applications

Message from the Guest Editor

In the field of biomedical engineering, the intersection of polymer engineering and medical science is providing vital solutions to challenges that were previously insurmountable within their individual fields. This translational research requires not only the precise characterization of the functionality and structures of the polymers but also tissue-friendly materials. Polymers play a pivotal role in biointerface engineering. For applications like tissue engineering and drug delivery, the tailored biodegradability and surface structures of polymers used in scaffolds and delivery vehicles are important. Polymers that blend biofunctionality with biomimetic structures are at the forefront of pioneering medical breakthroughs. This Special Issue explores recent advances in polymer fields in terms of medical applications. In particular, we invite colleagues to submit papers that address the current challenges associated with using advanced biomaterials, including integrating biological functions, managing protein adsorption and cell adhesion, tailoring biodegradability, achieving targeted drug delivery, and enhancing tissue engineering processes.

Guest Editor

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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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