Special Issue

Advanced Polymer Materials in Drug Delivery and Tissue Engineering Applications

Message from the Guest Editor

The development of advanced polymer materials has attracted great interest in biomedical applications such as drug delivery and tissue engineering. These polymer materials, including particles, fibers, films, microneedle patches, hydrogels, porous scaffolds, and polymer composites, are often loaded or functionalized with biological and/or chemical therapeutic agents to promote better treatment outcomes for diseases. The processing of advanced polymer materials and the corresponding studies of polymer characterization, in vitro assays, and/or in vivo models are of particular interest for this Special Issue. Specifically, polymer drug carriers with the ability to demonstrate dual releases, modulated releases, stimuli-responsive releases, or controlled releases are currently an attractive modern approach in drug delivery. Furthermore, advanced polymer materials often have excellent biological cues that are compatible with cells, promote cell growth, or regulate cell expressions.

This Special Issue highlights novel aspects in the processing of advanced polymer materials and their characteristics in drug delivery and tissue engineering applications.

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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