Special Issue

From Polymers Design to Advanced Structures for Biomedical Applications

Message from the Guest Editors

The rapid progress in polymer science has transformed the landscape of medical materials. Advances in macromolecular engineering enabled the rational design of drug and gene delivery systems, medical devices, biodegradable scaffolds, and biodegradable packaging for medical devices. Inspired by nature, these developments have led to the creation of advanced polymeric and composite structures for artificial tissues, biosensors, multifunctional materials, etc. Cutting-edge fabrication techniques such as bioprinting, bioplotting, and electrospinning are now pivotal in translating material design into functional medical constructs. This Special Issue, titled "**From Polymers Design to Advanced Structures for Biomedical Applications**," focuses on recent innovations in both synthetic and natural polymer systems. It will provide a platform for rapidly communicating high-quality research and reviews on the synthesis, functionalization, and advanced manufacturing of polymeric materials for next-generation 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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