



Advanced Functional Polymeric Materials for Biomedical Applications

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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.





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Message from the Editor-in-Chief

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