



## Polymer Materials for Drug Delivery and Tissue Engineering

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### Message from the Guest Editors

The recent years have witnessed an impressive development of modern therapies because of the appearance of numerous novel drug-delivery systems and biomaterials synthesized for tissue engineering purposes. The use of polymer-based biomaterials (natural, synthetic, or blends) has played a pivotal role in the tremendous advances reported in the biomedical field because of their tailorable designs, versatility, attractive physiochemical properties, and excellent biocompatibility. On the one hand, polymer-based materials are widely used in tissue engineering for the design and fabrication of biomimetic scaffolds that resemble the complex architecture of the defective tissues, which are easily engineered to exert distinct biological functions. On the other hand, polymers have been used for drug and gene delivery systems fabrication because of their ability to carry both hydrophilic and hydrophobic drugs or other molecules, with a controlled release of controllable doses, that can be biofunctionalized to ensure the efficient delivery of pharmacological cargo to the desired site.





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