



Advances in Polymeric Biomaterials: Drug Delivery and Tissue Engineering

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Polymeric biomaterials have played a pivotal role in recent advances in drug delivery and tissue engineering, and in promoting the healing process in regenerative medicine. These biomaterials provide the unique features and structural flexibility that enable us to tailor their physicochemical and mechanical properties according to desired applications. Besides, the development of biomanufacturing processes (e.g. 3D bioprinting, electrospinning, etc.) has provided a unique opportunity to shape natural and/or synthetic biomaterials into the desired geometry, with precise control over multiple compositions, spatial distributions, and architectural accuracy/complexity.

This Special Issue aims to highlight and promote recent advances in the synthesis, characterizations, and applications of innovative polymeric biomaterials in drug delivery and tissue engineering. It also covers the potential applications of such biomaterials in biofabrication, 3D bioprinting, surface bio-functionalization, and implantable devices and sensors.

Dr. Pooya Davoodi

Guest Editor





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Message from the Editor-in-Chief

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