



Bio-Based Polymers: Preparation, Characterization and Applications

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Message from the Guest Editors

Biodegradable polymers (biopolymers), together with nanotechnology, have found broad applications in the biomedical and pharmaceutical world. Biopolymeric systems include, but are not limited to, hydrogels, stimuli-responsive polymers, polymeric nanomaterials, liposomes, nanocomposites, scaffolds, polymeric micelles, dendrimers, and graft co-polymers, which mostly have therapeutic or diagnostic applications. These biopolymers have been the focus of recent research, owing to their excellent properties, such as low toxicity, biodegradability, biocompatibility, and stability. Biopolymers play an important role in regenerative medicine and tissue engineering, as these can be degraded to non-toxic components inside the body. However, a more in-depth understanding of the surface and bulk properties of these polymers is crucial in expanding their use in pharmaceutical and medicinal industries. Therefore, this Special Issue invites authors to contribute their most recent findings and innovations in this budding area of research.





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