



Recent Advances in Biopolymer Materials: Preparation and Application

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Message from the Guest Editor

The serious environmental problem caused by the indiscriminate use of non-biodegradable petroleum-based polymers has promoted in recent years the research and the development of new materials that are more sustainable and biodegradable. Particularly, there is a growing interest in renewable and/or biodegradable materials obtained from biopolymers such as polysaccharides and proteins. In this regard, the study of new materials is principally focused on these biopolymers and on the physical–chemical or biotechnological processes to convert these components to materials. The great challenge ahead is obtaining biodegradable biopolymers materials with functional capacities comparable to those of materials obtained from petroleum-derived polymers. This Special Issue will cover research related to advances in the development of new bio-based materials, characterization of their physical–chemical and functional properties, biodegradability, and application in packaging and smart functions.





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