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Biobased and Biodegradable Polymer Blends and Composites

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Message from the Guest Editors

There is a growing interest towards biobased polymer and biocomposite development in order to obtain more sustainable and eco-efficient products. In particular, the increasing preoccupation caused by the disposal of conventional plastics has pressed researchers towards the development of new biobased and/or biodegradable blends and composites that are able to replace fossil-based products in different sectors. However, the modulation of the starting biopolymer thermomechanical properties is fundamental to reaching the thermal, mechanical, and, in some cases, barrier properties required by the different fields of application in which these bioplastics can enter into the market. For this purpose, an economical and convenient strategy for developing new polymeric formulations is the blending technique in which it is possible to combine the physical and mechanical advantages of different polymers. Nevertheless, the addition of natural fibers can be an efficient solution, not only to reduce the cost of the biopolymeric matrix but also to promote the biodegradability.

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Message from the Editor-in-Chief

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