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Polymer Blends: Processing, Morphology, and Properties

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Message from the Guest Editor

This Special Issue will focus on the existing state of the art of blending as an efficient approach to overcome the present and future challenges of the polymer industry. We are moving from an oil-based economy where a "few" cheap plastic products can fulfill many different applications to a new paradigm where the circular economy and pollution taxes will increase the cost of, if not ban, products made from commodities. Hence, the opportunity for specific new compounds that are optimal for fulfilling a given application will arise, especially in the field of bio-sourced and biodegradable materials. Blending polymers is a powerful method to modify the properties of plastics, but there are still some unanswered questions regarding processing-induced morphology and properties of the blends, which are the purpose of many studies. In this sense, the goal of this Special Issue is to be a reference work, collecting the latest results in the field, so they can enlighten current and future investigations.

Keywords

- biodegradable blends
- nano/micro-dispersions
- reactive blending
- surface modification

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Message from the Editor-in-Chief

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