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Novel Biodegradable and Renewable Polymer-Based Nanohybrids and Applications

Guest Editor:

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closed (17 November 2021)

Message from the Guest Editor

Biodegradable and renewable polymer-based nanohybrids emerge as a viable alternative to high “carbon footprint” petroleum-derived plastics. With a plethora of opportunities arising from the combination of biodegradable/renewable polymers and nanoparticles, these systems offer exciting opportunities to design and synthesize novel multifunctional materials and devices. These are aimed to be applied in the fields of medicine, packaging, energy storage, catalysis, water purification, sensors, and actuators. Thanks to such propitious characteristics, it is expected that polymeric nanohybrids may take the lead in the transition to a sustainable society.

This Special Issue seeks to address recent developments in novel nanohybrids based on biodegradable and renewable polymers in a comprehensive way. Manuscripts dealing with the synthesis of novel biodegradable/renewable polymers, nanoparticles/nanohybrids/nanocomposites, functionalization, processing, multifunctional properties, novel applications, life cycle assessment (LCA), and recycling will be considered. Full papers, communications, and reviews covering these subjects are welcome.

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Message from the Editor-in-Chief

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