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Sustainable Polymers: From Synthesis to Functional Properties

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Deadline for manuscript
submissions:

closed (15 November 2021)

Message from the Guest Editor

This Special Issue aims at covering different aspects of this research field to provide a useful insight into the latest developments and future trends. Main topics include but are not limited to:

- Innovative synthetic approaches towards sustainable polymers;
- Synthesis or post-functionalization of biopolymers both of natural and synthetic origin;
- Preparation of bio(nano)composites;
- Physic/mechanical characterization of biopolymers and biocomposites;
- Environmental applications, such as (food) packaging or mulching films;
- Sustainable polymers in personal and home care formulations;
- End-of-life evaluation, including composting, soil burial, and enzymatic hydrolysis tests;
- Life Cycle Analysis.

Keywords

- Synthesis and characterization of biopolymers
- Structure/property relationships
- Eco-friendly materials
- Biodegradability
- Life cycle assessment, carbon footprint
- Sustainable (food) packaging
- Biocomposites, bionanocomposites



mdpi.com/si/27914



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Message from the Editor-in-Chief

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