Special Issue

Sustainable Polymers: From Synthesis to Functional Properties

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

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Deadline for manuscript submissions

closed (15 November 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/27914

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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