

Special Issue

Sustainability of Polymeric Blends and Biocomposites

Message from the Guest Editors

Biocomposites are obtained by blending natural fibers with bio-based and/or biodegradable polymers offering an additional wide variety of advantages. Generally, they present poor mechanical properties, restricted processing conditions and limited end-use applications. In order to overcome these drawbacks, blending with other polymers as well as reinforcement with fillers or nanofillers has been widely investigated and utilized. This Special Issue is focused to bring together a number of original papers and reviews covering (but not restricted to) all the aspects related to the preparation and processing biopolymer-based composites to replacing fossil-based materials with biobased counterparts with suitable properties, using physical and chemical treatments such as compatibilization, functionalization and coating. Topic of primary interest include the characterization of biocomposites in terms of mechanical, thermal, electrical, optical, chemical, magnetic properties and their application in different fields (Biomedical, Packaging, Food Industry, Agriculture, Electronical, etc.) as well as biodegradability and sustainability evaluated by Life Cycle Assessment studies.

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About the Journal

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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