Special Issue

Functional/Structural Polymers and Composites Produced by the Addition of Plant Biomass or Waste Materials Using Various Production Technologies

Message from the Guest Editor

In recent years, the recycling of plastics and plastic-derived products has become one of the most important environmental and waste management issues. While their durability is a major advantage, plastics also contribute to significant waste accumulation. Recycling is considered the preferred option for waste management, with the aim of reusing materials to create new products, whether using traditional methods or 3D printing. Research is now moving towards the production of materials not only from pure polymers but also from their composites. Bioplastics, especially biodegradable and compostable ones, have emerged as sustainable alternatives. The aim of this Special Issue is to present the possibility of producing composites based on plant biomass and waste materials, and to produce innovative functional and structural materials from them. Further development in this field is both essential and promising, as the use of recycled materials contributes to waste reduction, energy conservation, and the sustainable use of natural resources. One of the most promising applications is the use of 3D printing technology to process recycled materials.

Guest Editor

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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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