

Special Issue

Polymer Composites: Microstructural, Thermal and Mechanical Properties

Message from the Guest Editor

In recent decades, the increasing demand for high-performing materials and structures has stoked the interest in the development and use of polymer composites in a wide range of industrial fields. These materials have the peculiarity to meet diverse design requirements with significant weight savings as well as a high strength-to-weight ratio. However, despite these strengths, some features such as the difficult prediction of durability under structural loads still limit their use. This consideration is more true for eco-friendly composites more recently developed in light of environmental concerns aimed at preserving fossil resources in favor of renewable ones. Their increased attraction is witnessed by numerous papers dealing with composites from biomatrices and/or reinforced with natural fibers in place of synthetic ones, but this trend is not yet reflected in a relevant range of industrial applications because of many challenges. This Special Issue aims at collecting recent advancements of polymer composites.

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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