

Special Issue

Modeling, Characterization and Applications of Multifunctional Polymer Composites Based on Carbon Nanostructures

Message from the Guest Editor

Polymer nanocomposites based on carbon nanostructures are increasingly studied due to the possibility to achieve tailored and combined mechanical, thermal and electrical properties. The overall performances of the nanocomposites are strongly dependent on multiple factors correlated to polymer properties, filler features, filler-polymer and filler-filler interactions, the processing condition, and so on. For this reason, experimental characterization together with theoretical studies and modeling are required for improving the knowledge of basic physical mechanisms and processing conditions leading to the optimization of the desired performances. In light of this, the forthcoming Issue intends to provide an opportune framework for presenting the latest scientific findings concerning different scientific issues associated to the development of these materials. It is my pleasure to invite you, as a renowned scientist in this field, to submit your recent work to this Issue of the journal.

- Polymer nanocomposites
- Nanoparticles
- Carbon-carbon composites (CCCs)
- Characterization of nanocomposites
- Correlation among morphological, thermal, mechanical, and electrical properties

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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