Special Issue

Recent Advances in Composites of Polymers with Graphene and Carbon Nanotubes

Message from the Guest Editor

Graphene is a unique material, possessing extraordinary characteristics such as excellent electrical, thermal, and mechanical properties. Some end-use polymer graphene composite applications could potentially be found in electronic devices, semiconductors, and electromagnetic shielding materials, just to name a few. However, the efficacy of the composites is proportional to the dispersion/distribution of graphene-based particles within the polymer matrix. Attempts have been undertaken to maximize graphene dispersion through either surface functionalization or polymer modification and blending to improve the graphene/polymer interactions. Therefore, this Special Issue intends to gather and disseminate recent findings relevant to the polymer graphene focus area. Topics of interest include but are not limited to, processing, polymer/graphene compatibilization, innovative analytical tools for characterizing polymer graphene composites, and the structure-property relationships of nanocomposites, with emphasis on mechanical, electrical, and thermal properties.

Guest Editor

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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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