

Special Issue

Advances in Graphene-Based Polymer Nanocomposites: Synthesis, Properties and Multidirectional Applications

Message from the Guest Editor

Dear colleagues, Graphene-based polymer nanocomposites have gained significant attention recently for their exceptional properties and capabilities. The combination of graphene with polymer matrices allows for the creation of nanocomposite materials with outstanding performance, contributing to a sustainable and technologically advanced future. This Special Issue aims to showcase the immense potential of graphene-based polymer nanocomposites as a transformative class of materials. We invite researchers to submit original research or reviews on the synthesis of graphene and derivatives using facile or green methods; advanced techniques for preparing graphene/polymer hybrids; challenges in synthesis and potential solutions; characterizing the graphene-polymer interface; theoretical studies and modeling of graphene/polymer nanocomposites; and diverse applications of these nanocomposites in industries such as energy storage, solar cells, wearable electronics, aerospace engineering, and others.

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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