Special Issue

Multifunctional Graphene-Based Nanocomposites

Message from the Guest Editor

Graphene and graphene-related materials have been the subject of serious research efforts. There is not only an enormous hype surrounding this material, but real applications and products are starting to appear on the market and the mass industrialization of graphene is imminent. This Special Issue will attempt to cover the recent advances in designing graphene-based nanocomposite materials, focusing on the synthesis and preparation of functional materials and structures, and specifically emphasizing studies of process–structure–property–function relationships. The demonstration of the performance of a functional material or device should be included in each original research paper. Because the promised future of graphene-based materials is fast approaching, scale-up studies as well as research on fabrication processes and other practical issues related with the viable production or application of these materials are of growing importance and therefore highly attractive for publication in this issue as well. We welcome submissions of both original research papers and reviews on this topic.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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