Special Issue

Graphene Based Hybrid Nanostructures: Synthesis and Characterization

Message from the Guest Editor

This Special Issue is dedicated to report on recent advances in the synthesis, characterization, and possible applications of graphene-based hybrid nanostructures. Graphene has been the focus of intense research interest due to its outstanding electronic, optical, mechanical, and thermal properties.

This Issue primarily addresses hybrid nanostructures that contain graphene, graphene oxide, metallic or semiconducting nanoparticles, core-shell structures, functionalized graphene, chemically modified graphene, 3D interconnected networks of different nano-objects, etc. Since the properties of these hybrid materials depend also on the interaction between the components, the control of the bonding, density, and distribution of the nano-objects is an important topic of interest.

It is my pleasure to invite you to submit a manuscript for this Special Issue. New experimental findings as well as theoretical studies are welcome.

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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