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Carbon Based Hybrid Nanomaterials

Guest Editor:

Dr. Vassilis Tangoulis
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Deadline for manuscript submissions:
closed (20 June 2019)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will attempt to cover cutting-edge research, and several applications within the fields of energy, microelectronics, biomedicine, and beyond, while at the same time presenting market opportunities for carbon-based nanoscale materials and devices in the future. In a parallel manner, various synthetic routes for carbon-based nanomaterials will be presented, including chemical and physical routes, top-down (e.g., exfoliation), and bottom-up (e.g., chemical vapor deposition). This Special Issue will also attempt to present the progress in the synthesis, preparation, and characterization of various hybrids based on carbon nanotubes, graphene, graphene oxide, and their derivatives, with various inorganic components such as nanosized oxides, noble metallic nanoparticles, normal metals, non-graphene nanocarbons (carbon nanotubes or carbon nanofibers), semiconductor nanoparticles, and inorganic complexes (SMMs, spin crossover nanoparticles).

Dr. Vassilis Tangoulis
Guest Editor

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Editor-in-Chief

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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.

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