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Properties and Applications of Graphene and Its Derivatives

Guest Editor:

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Deadline for manuscript submissions:
closed (31 July 2021)

Message from the Guest Editor

Dear Colleagues,

Graphene is an ideal candidate in myriad applications because of its distinctive mechanical (e.g., high strength and flexibility) and electronic (great electrical and thermal conductivities) properties. Thus, it has just started to be engineered in electronics, photonics, biomedicine, and polymer-based composites, to name a few. The graphene family is even wider, and includes other members such as graphene oxide (GO), reduced GO (rGO), or graphene quantum dots (GQDs), which are also very interesting materials, whose properties (markedly different from those of pristine graphene) are under thorough study. Understanding the properties of the graphene family of nanomaterials is crucial for developing advanced applications to solve important challenges in critical areas such as energy and health.

This Special Issue aims at gathering original research works in which the excellent properties of graphene nanomaterials are exploited in cutting-edge applications. Papers on graphene hybrid nanostructures, doped, or functionalized graphene derivatives are also welcome.

Dr. José Miguel González-Domínguez
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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