



Graphene-Semiconductor Composites: Preparation and Applications

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Because of the unique structure and excellent properties of graphene derivatives (such as graphene oxide (GO) or reduced graphene oxide (rGO)), the coupling of graphene with semiconductor materials presents the possibility to design and fabricate novel graphene-based materials. These composites have attracted extensive attention for their potential in environmental and energy applications. The Special Issue will be devoted to new developments and fundamental advances on graphene–semiconductor composites with tuned textural and surface chemical properties, and their applications in the photodegradation of organic pollutants, photocatalytic splitting of H₂O, and photocatalytic reduction of CO₂, as well as carbon electrodes for energy production and storage, among others.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, short communications, and reviews are welcome.

Dr. Luisa M. Pastrana-Martínez

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.

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