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Synthesis & Devices of Graphene-Based 2D Nanomaterials for Energy Storage and Conversion

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Message from the Guest Editors

Dear Colleagues,

Let us introduce a new Special Issue of *Nanomaterials*, which revolves around highly anisometric platelets of graphene materials assembled into nanostructures (composites, ultrathin films). The special aspect of this Special Issue lies in the fabrication of graphene material devices. This feature demonstrates the versatility of 2D nanostructures which are carbon based but may be doped with non-metallic elements for a range of innovative energetic applications such as supercapacitors or batteries. Materials including graphene and its derivatives, graphene (graphite) oxide, fluorographene (and graphite fluoride) and layer-structured nitrides (hexagonal boron nitride, graphitic carbon nitride, borocarbonitrides) may all bestow different functionality to the carbon and result in different functionality of the devices as well. We request short communications, regular research papers, and also reviews on this topic.

See more information in
https://mdpi.com/si/195455

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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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