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Performance and Characterization of 2D Nanomaterials and Nanocomposites for Designing New Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editor

Dear Colleagues,

With nanomaterials gaining a great interest in a wide range of industrial areas, a thorough characterization study of their properties once combined with other materials into nanocomposites remains in the forefront of the materials research field. A better understanding of their behavior in a nanocomposite matrix is imperative for development of new devices for a number of practical applications. Nanomaterials is relevant to any field of study that involves nanotechnology. All manuscripts undergo a rigorous reviewing process and decisions are made based on the recommendations of independent reviewers. This special issue focuses on the performance and characterization of 2D nanomaterials and nanocomposites for designing novel devices. We invite authors to contribute research articles on the multidisciplinary research area on nanocomposite-based devices including but not limited to:

- Synthesis and characterization of carbon nanomaterials
- Carbon nanomaterials in energy conversion and storage
- Nanomaterials in catalysis
- Nanomaterials in sensors
- Nanocomposites
- Nanoelectronic devices
- Optoelectronic devices
- Chemical sensing devices
- Nanocomposite-based devices

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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