Special Issue

New Two-Dimensional Semiconductor Materials and Electronic Devices

Message from the Guest Editors

The scope of this Special Issue includes two-dimensional synthesis methods, properties modification, characterization methods, and various device applications. This Special Issue focuses on both scientific and engineering aspects of the growth, characterization, simulation, and device performance towards theoretical innovation and industrial applications. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Two-dimensional materials for device applications;
- Two-dimensional synthesis methods;
- Two-dimensional heterostructures.

We look forward to receiving your contributions.

Guest Editors

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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.

Editor-in-Chief

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