Special Issue

Graphene and Related 2D Materials

Message from the Guest Editor

Graphene and related 2D materials are actively studied in many fields of nanomaterials, including next-generation electronics, filters, catalysts, sensors, biomedical applications, and more. Due to their unique properties, graphene and related 2D materials are promising candidates to overcome the limitations of conventional three-dimensional bulk materials. The scope of this issue ranges from synthesis and modification of 2D materials to properties, and practical applications. This Special Issue focuses on both scientific and engineering aspects of graphene and related 2D materials with fundamental properties, defects, and phase transitions that enable observation of unprecedented physical phenomena and achievement of state-of-the-art electronic devices. See more information in https://www.mdpi.com/si/68056

Guest Editor

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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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