

Special Issue

Recent Advances in Two-Dimensional Monolayer Nanomaterials

Message from the Guest Editors

Two-dimensional (2D) materials have broad application prospects in nanoelectronics, photoelectronics, catalysis, and sensing because they exhibit the characteristics of atomic-thickness crystals. Depending on the crystal structure, 2D materials can be divided into two types: layered materials and non-layered materials. Two-dimensional monolayered materials have excellent physical and chemical properties and potential application values in the fields of catalysis, field effect tubes, optoelectronic devices, spintronic devices, etc., representing a research hotspot in many fields, such as physics, chemistry, materials, and electronics. This Special Issue aims to collect original research articles or comprehensive review articles covering the most recent progress and new developments of 2D monolayer nanomaterials. Original papers in various formats, including full papers, communications, and reviews related to excellent properties; synthesis strategies; as well as applications of 2D monolayered materials can be discussed in this Special Issue. 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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