

Special Issue

Electronic Structure and Transport Properties of Two-Dimensional Materials

Message from the Guest Editor

Two-dimensional materials, compared to bulk materials, offer unique and advanced electronic, magnetic, optical, and catalytic properties, along with quantum effects, due to their atomic thickness, enabling greater flexibility, miniaturization, and technological integration. In light of these advancements, *Nanomaterials* is pleased to announce and invite submissions for a Special Issue titled “Electronic Structure and Transport Properties of Two-Dimensional Materials”. This Special Issue aims to highlight the recent progress and address the key challenges in understanding the relationship between atomic structure, electronic structure, and transport properties in 2D materials. We welcome contributions on the current trends in this field.

Guest Editor

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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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