Special Issue

Low-Dimensional Semiconductor Materials: Fabrication, Characterization and Applications

Message from the Guest Editors

This Special Issue entitled “Low-Dimensional Semiconductor Materials: Fabrication, Characterization and Applications” brings together original research and reviews which focus on the exploration of novel low-dimensional semiconductor materials and their nanostructures. The scope includes research at the frontier of low-dimensional functional semiconductors, oxide heterostructures, organic materials, perovskites, quantum materials and catalysts. We invite authors to contribute leading results and reviews covering the scope outlined above, which showcase the depth and breadth of the current progress in the field of low-dimensional semiconductors.

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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.

Editor-in-Chief

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