

Special Issue

Stable Perovskite Materials: From Synthesis to Optoelectronic Devices

Message from the Guest Editor

Metal halide perovskites have emerged as a class of semiconductor materials with unique optoelectronic properties that enable a broad range of energy-related applications. This Special Issue of *Nanomaterials* aims to publish original research papers and review articles focusing on the innovative synthesis and application of stable and/or lead-free perovskite, in the form of methylammonium-free perovskite, nanocomposite perovskite additives, 2D perovskite, and perovskite quantum dots, in order to understand the fundamental degradation mechanisms and address them. Recent advances towards deepening the understanding of the nature of instabilities in hybrid perovskite materials and the corresponding devices from the perspective of structural properties and optoelectronics as well as device operation will be covered.

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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