Special Issue

Controversy about the Origin of the Broad Emission Band in Photoactive Perovskite Materials

Message from the Guest Editors

This Special Issue will report on how to prepare customized emissive perovskite materials by providing experimental and theoretical studies that can help to understand the relationship between the observed broad emission and the perovskite's dimensionality, composition, and crystal structure distortion. This knowledge will boost the development of efficient, broad-emissive perovskites of interest for white-light illumination, among other applications. We encourage authors to submit studies related to this topic, involving lead and lead-free halide perovskites (solids and colloids) of different dimensionality (3D, 2D, 1D, and 0D) and composition, as well as metal-doped perovskites. It is highly recommended that authors include photoluminescence efficiency, as well as thermal, chemical, and photochemical stability information of the materials. Original contributions and/or perspectives are welcome.

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

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