Special Issue

Advances in Persistent Luminescence Nanomaterials: Synthesis, Characterization and Application

Message from the Guest Editor

Persistent luminescence materials, also known as long afterglow materials, have garnered significant attention in recent years due to their unique ability to emit light after excitation ceases. In recent decades, the continuous emergence of persistent luminescent nanomaterials has made them one of the main topics in optical materials. The optical properties of persistent luminescent nanomaterials are affected by the synthesis method used, and characterization is fundamental regarding persistent luminescence mechanisms. With the rise of new persistent luminescent nanomaterials and their unique properties, their applications are becoming more and more extensive. This Special Issue is aimed at presenting the current state-of-the-art synthesis of persistent luminescent nanomaterials, their structure, persistent luminescence characterization, and applications of persistent luminescent nanomaterials in different areas.

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.

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