

Special Issue

Nanophosphors for Solid-State Lighting and Biomedical Applications

Message from the Guest Editors

Currently, the use of nanophosphors in medicine has been emerging as a new-generation versatile tool for fluorescence imaging, drug delivery, and imaging-guided therapy, among other applications where the fluorescent nanoparticles can efficiently cross physiological barriers to reach target sites safely and sustainably cure the diseased areas (e.g., cancers). And in light of the current progress in this field, this Issue is dedicated to reporting novel phosphor materials (from downconversion to upconversion) for effective therapeutic applications.

This issue also focusses on the development of novel phosphor materials for solid-state lighting applications. As we know, nanophosphors are highly advantageous for the fabrication of desired light-emitting diodes (LEDs) with specific wavelengths which are useful for indoor, outdoor, forensic science, and horticultural lighting applications. Therefore, our aim is to focus on the wider range of nanophosphor applications.

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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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