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Facile Synthesis, Properties and Applications of Luminescent Nano-Phosphors

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Deadline for manuscript submissions:

closed (20 June 2025)

Message from the Guest Editors

Dear Colleagues,

This Special Issue on “Facile Synthesis, Properties and Applications of Luminescent Nano-Phosphors” aims at inorganic and hybrid organic-inorganic materials that have luminescent properties and is open to research that deals with synthesis methods, structural characterizations, luminescence properties, and their novel applications. Contributions such as reviews or original papers on basic research or applied technology of promising luminescent materials are welcomed.

The scope of the Special Issue includes, but is not limited to, the following topics:

Rare-earth/transition metal-doped inorganic luminescent materials;

Persistent (nano)-phosphors: recent progress and new materials;

X-ray excited luminescence, persistent luminescence, optically stimulated luminescence, thermoluminescence, photochromism, mechanoluminescence;

Novel optical materials/devices for displays, sensing, biomedical, dosimetry, X-ray imaging, and environmental applications;

New synthesis methods and techniques;

Experimental methods for characterizing nanomaterials;

New applications of luminescent nano-phosphors.



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Special Issue



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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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