Special Issue

Synthesis and Characterization of Nanoparticles with Luminescence Properties

Message from the Guest Editor

Luminescent nanoparticles have attracted significant attention for advanced applications in different fields such as biomedicine, energy, or sensors. The nanomaterials of interest range from insulating host particles doped with rare earth and transition metal ions to semiconductor nanoparticles or quantum dots. The luminescent properties of quantum dots are known to be very sensitive to the particle size and system dimensionality. This Special Issue aims to collect articles covering a broad range of subjects from nanomaterials synthesis to characterization techniques and optical functionality. Potential topics include, but are not limited to:

- Nanoparticle synthesis methods
- Physical processes in nanomaterials, porous materials, and interfaces
- Characterization techniques (e.g., X-ray diffraction, Raman spectroscopy)
- Absorption, emission, excitation, and time-resolved spectroscopy
- Excited state dynamics and upconversion nanoparticles
- Applications (e.g., phosphors, energy conversion, bioimaging)

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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