Special Issue

Synthesis, Characterization, and Application of Luminescent Nanomaterials

Message from the Guest Editors

The emergence of new kinds of luminescent nanomaterials, which were bestowed with nanotechnology, made it one of the leading topics in materials research. Normally, the luminescent property of nanomaterials is tremendously impacted by synthesis. And characterization is fundamental to luminescent mechanism investigation. The applications of luminescent nanomaterials get wider with the emergence of new materials and unique properties. The present special issue is aimed at presenting the current state-of-the-art synthesis of luminescent nanomaterials, structure and luminescence characterization, and applications of luminescent nanomaterials. Potential topics include, but are not limited to:

- Luminescent semiconductors;
- Rare earth ion doped luminescent nanomaterials;
- Carbon-based luminescent nanomaterials;
- Luminescent organic molecules;
- Low dimensional luminescent structures, such as quantum dots, nano-wires, and nano-sheets;
- Luminescent mechanism;
- Emerging new luminescent nanomaterials;
- Applications of luminescent nanomaterials.

You can submit your paper at the following link: https://www.mdpi.com/si/173046

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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