



Low Dimensional Luminescent Nanomaterials and Nanodevices

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Message from the Guest Editors

Low-dimensional luminescent nanomaterials have attracted extensive research attention because of their unique quantum confinement effect. Their novel optical and photophysical properties endow them with many promising nanodevices applications, such as light-emitting diodes, lasers, solar cells and luminescent memristors. There are still many issues with low-dimensional luminescent nanomaterials, such as fundamental photophysical understanding, stability and device performance, which must be addressed and further investigated.

This Special Issue aims to provide an overview of the most recent developments in novel low-dimensional luminescent nanomaterials and nanodevices. Original research articles, reviews and perspectives are welcome. Research areas may include (but are not limited to) the following:

- Synthesis of low-dimensional luminescent nanomaterials such as quantum dots, metal halide perovskites and quantum-dot-luminescent glasses.
- Optical and photophysical properties of low-dimensional luminescent nanomaterials.
- Nanodevices applications in light-emitting diodes, lasers, solar cells and luminescent memristors.

We are looking forward to receiving your contributions.





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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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