



Luminescent Rare-Earth Based Nanomaterials

Guest Editor:

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Message from the Guest Editor

Rare-earth-based nanomaterials exhibit important advantages over other available luminescent nanomaterials due to their low toxicity, photostability, high thermal and chemical stability, sharp emission bands, high luminescence quantum yields and relatively long luminescence decay times.

The Special Issue on “Luminescent rare-earth-based nanomaterials” will cover a wide range of research fields, including rare-earths and nanomaterials, nanofabrication, core-shell structures, nanosensors, bioprobes, and security devices in the form of reviews, communications, and academic articles.

Potential topics include, but are not limited to:

1. Development of core-shell up-conversion nanoparticles
2. Energy transfer in core-shell type nanoparticles
3. Novel ratiometric temperature nanosensors
4. Near-infrared emitting systems
5. Development of bioprobes based on rare-earth-doped nanoparticles
6. Rare-earth nanomaterials for anti-counterfeit applications
7. Applications of rare-earth-based nanomaterials





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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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