



## Lanthanide-Doped Luminescent Nanomaterials: Design, Synthesis, Optical Properties and Applications

Guest Editor:

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### Message from the Guest Editor

Dear Colleagues,

Impurity doping is a promising method to modify material properties. Lanthanide ions have been extensively explored as active dopants in nanomaterials to modulate their morphologies, sizes and electronic configurations. Moreover, doping with lanthanide ions can impart rich optical properties, making doped nanomaterials attractive for many applications. Owing to their unique properties, lanthanide-doped luminescent nanoparticles have found applications in bioimaging, sensing, photothermal therapy, photodetector, solid-state lighting and anti-counterfeiting.

This Special Issue aims to provide an overview of the recent developments in lanthanide-doped luminescent nanomaterials, including, but not limited to, the following:

- Synthesis and morphology control of lanthanide-doped nanomaterials;
- Optical properties of lanthanide-doped nanomaterials;
- Application of lanthanide-doped nanomaterials.

Dr. Sai Xu  
*Guest Editor*





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## Message from the Editor-in-Chief

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