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Recent Developments in Luminescent Nanomaterials

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Message from the Guest Editors

Dear Colleagues,

Research on the development of new luminescent nanomaterials has been considered important in the recent years from a technological point of view as their application has spread in almost all the branches of science and technology, due to the distinct spectroscopic properties of the lanthanide/rare earth ions present in the luminescent nanomaterials such as down shifting, down converting, upconverting and persistent nanomaterials which can contribute profusely in this regard.

Research studies on the nanosystems of luminescent nanoparticles including rare-earth based luminescent nanomaterials in polymer, glass and as composites for example, and their synthesis methods, integration and characterization techniques are invited to this special issue. Papers may also contain any aspects related to technologies and fabrication/testing of new devices, especially in the field of applications such as security, biological labelling, sensing, photovoltaics as well as other innovative applications.

Prof. Laetitia Petit
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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.

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