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Nanosized Luminescent Materials: Advances and Applications

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Message from the Guest Editors

This special issue aims to extensively cover main scientific and technological areas related to Nanosized Luminescent Materials with particular emphasis on new functional devices structured at the subwavelength scale, and the extension of operating wavelengths into the blue/UV and Mid-infrared regions. Luminescent nano objects and systems and derived photonic structures are among the forefront enabling technologies to address successfully social-economical challenges that we are facing in many fields going from health care to security, from environmental protection to advanced manufacturing.

Through this Special Issue, in order to present the state of the art *applications of the nanosized, both luminescent large-band-gap semiconductor and the rare earth doped luminescent materials*, we aim to particularly highlight their spectroscopic properties resulting from synthesis, stabilization, modification and (bio) functionalization of the surface.



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Special Issue



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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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