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Functional Nanostructures for Sensors, Optoelectronic Devices and Drug Delivery

Guest Editor:

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Message from the Guest Editor

Recent progress in the synthesis of nanomaterials and the fundamental understanding of their properties has led to significant advances in nanomaterial-based sensors, in optoelectronic devices, and in drug delivery systems. For these applications, it is essential to design and synthesize novel systems with an optimized structure and properties, a goal which has been achieved using nonconventional approaches. In this respect, nanostructured materials with peculiar optical properties are attracting increasing interest since their optical response, in terms of electronic absorption, emission fluorescence, optical activity, photocurrent, and so on, can be largely influenced by slight changes in the microenvironments and in the presence of specific analytes. These peculiar features can be conveniently exploited in a variety of different applications. This Special Issue welcomes the submission of original research papers or comprehensive reviews that demonstrate or summarize significant advances in the synthesis and application of novel functional nanostructures, with potential applications in sensor, optoelectronic devices, and/or drug delivery.

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Editor-in-Chief

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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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