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Semiconductor Nanostructures for Light-Emitting Devices and Light-Energy Conversion Systems

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

The Special Issue aims to cover a broad range of topics related to the use of nanomaterials, including quantum dots, perovskites, etc., in the design and fabrication of light-emitting diodes (LEDs), solar cells, photodetectors and other optoelectronic devices. Topics of interest include, but are not limited to, the synthesis and characterization of nanomaterials, the design of nanomaterial-based LED architectures, and the optimization of LED performance through nanomaterial engineering.

We hope that this Special Issue will provide a platform for researchers to share their insights and progress and will serve as a valuable resource for scientists and engineers working in the area of optoelectronics.

Please see more details at the following link:
https://www.mdpi.com/si/185294

Dr. Xiaoli Zhang
Guest Editor

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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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