Special Issue

Advances in Nanomaterials for Optoelectronics

Message from the Guest Editors

This Special Issue will include interdisciplinary topics at the frontiers of nanomaterials and devices, covering a wide range of applications in optoelectronics, including solar cells, photodetectors, lasers, transistors, light-emitting diodes (LEDs), sensors, etc. Publications will be devoted to research on nanomaterials and nanocomposites (perovskites, 2D-layered materials, 3D-structured nanomaterials, etc.), device fabrications, advanced nanomaterials, optoelectronic properties, and the investigation of theoretical (and modeling of) structure-property relationships. Other topics not mentioned in the list of specified topics are also welcome if they are related to the theme of the Special Issue. The main goal of this research topic is to provide a specialized platform for researchers working in this field, where they can share new results, challenges, and perspectives of the new advances in nanomaterials and their optoelectronic applications and present a roadmap of this field.

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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.

Editor-in-Chief

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