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Optoelectronic Functional Nanomaterials and Devices

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Message from the Guest Editors

Optoelectronic functional materials and devices have always been the main research direction in the fields of physics, chemistry, biology, engineering and manufacturing. This Special Issue mainly focuses on related work in the field of photoelectric research, such as luminescence, power generation, energy storage and conversion, imaging, metamaterials, and metastructures. Significant work must still be carried out in these areas, and it is still necessary to delve into the essential factors and internal mechanisms of the devices that affect optoelectronic performance materials, and then to reveal the relationship between materials, structures and their properties. We expect continued advancement and cross-integration in these areas to continue to lead the way in optoelectronic theory and optoelectronic applications. The purpose of our Special Issue is mainly to build a platform for scholars who are committed to engaging in, and not limited to, the above research fields to share and exchange scientific research together.

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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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