



Optoelectronic Devices and Applications Based on Emerging Materials

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Message from the Guest Editor

Dear Colleagues,

Optoelectronics devices utilize, detect, and control light, including visible and invisible forms such as X-rays, ultraviolet, and infrared, and are operated by energy/signal conversion in electrical-to-optical or optical-to-electrical ways.

This Special Issue calls for research papers, reviews, and short communications related to state-of-the-art developments in optoelectronic devices based on emerging materials including transition-metal dichalcogenides, perovskites, MXenes, polymers, and organic–inorganic hybrid materials.

Dr. Hocheon Yoo
Guest Editor





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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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