Special Issue

Advances in Nano-Optoelectronic Engineering: Materials, Devices, and Optical System Design

Message from the Guest Editor

The fields of nano-optoelectronics and photonics are experiencing rapid advancements, particularly in the design and application of nanostructured materials and devices. This Special Issue will explore cutting-edge research in nano-optoelectronic engineering, focusing on a range of key topics, from solid-state lighting innovations to advancements in quantum dots and quantum physics applications. Furthermore, we will address the fabrication and design of optical devices, including photonic sensors and detectors, and delve into the use of nanomaterials in optical materials engineering. By bringing together research from both academic and industrial perspectives, this issue aims to push the boundaries of imaging systems and optical lens design, driving future innovations in optical technologies and display systems. We invite contributions that address these diverse fields, helping to expand the knowledge base of optical engineering and to inspire new applications in photonic devices, sensors, and advanced materials. You can submit your paper at the following link: https://www.mdpi.com/si/218814

Guest Editor

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Deadline for manuscript submissions

closed (20 April 2025)

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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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