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Nanotechnology's Impact on Optics and Nanophotonics

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Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

The study of electronic, optoelectronic, and photonic nanodevices (as well as their applications) is one of the leading topics of photonics research. However, because the materials used in them must be of extremely high quality, and the devices themselves must be extremely exact, systems that utilize optical components are intrinsically more difficult to miniaturize and improve. Such structures can provide novel material characteristics with unique functions on the surfaces of metals, semiconductors, dielectrics, or polymers, depending on the specific material parameters and the morphologies of the structures.

This Special Issue focuses on the latest theoretical developments and practical applications of electronic, optoelectronic, and photonic nanodevices. It aims to attract both academic and industrial researchers in order to foster the current knowledge of nanomaterials and to present new ideas for future applications and new technologies.





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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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