Special Issue

Nanoscale Materials and Their Photonic Devices

Message from the Guest Editor

This Special Issue will present both scientific and engineering aspects of nanomaterials and their practical applications in the fields of optical communication, high-level security, on-chip recording, high-throughput sensing, etc. This includes the design and controlled synthesis of nanoarchitectures, fundamental properties, spectral management, and achievement of state-of-the-art photonic devices. We invite authors to contribute original research articles and review articles covering the current progress on nanoscale materials and their photonic devices.

- nanomaterials
- nanophotonics
- optical devices
- spectral management
- controlled synthesis

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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