

Special Issue

Advance in Nanophotonics

Message from the Guest Editor

There have been numerous advances in nanophotonics in areas such as nanowaveguides and devices, nanolasers, photonic crystals, semiconductor dots, quantum optics, quantum communications, nanofibers, nanowires, and the usage of nanomaterials in optical fiber lasers. Specifically, the area of nanophotonics covers the science and engineering of light-matter interactions in the region of wavelength and subwavelength scales, whereby the nanostructure of matter controls the interaction. Another area in the science of nanophotonics that has generated interest is two-photon processes in materials. This process has opened up new applications such as fluorescent imaging, sensitization, next-generation nanolithography, and many others. In this Special Issue, we invite the submission of research papers highlighting the integration of nanotechnology and photonics to be considered for publication.

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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