Special Issue

Nanophotonic and Optical Nanomaterials

Message from the Guest Editor

The rapidly growing demands of modern technologies in globally important applications, such as communication infrastructure, data processing and information storage, biomedical diagnostics and super-imaging, have launched a race for materials with highly tunable and controllable optical response in subwavelength dimensions. Recent progress in nanotechnologies and manufacturing permits fabricating artificial nanostructures with pre-engineered properties exhibiting strong light-matter interaction. This Special Issue aims to highlight the latest advances in nanophotonics and material science, including developments of nanomaterials and smart nanoscale designs which bring disruptively new opportunities to control light and could have important implications for novel photonic metadevices operating beyond the diffraction limit. We also welcome contributions studying resonant effects with nanostructures, optical nonlinearities, interaction of photons with nanostructured media, topological and quantum states of light.

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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