Special Issue

Nano-Photonics and Meta-Nanomaterials

Message from the Guest Editor

Over the past few decades, nanomaterials and metamaterials have revolutionized the landscape of optical sciences. Highly enhanced electromagnetic fields typically associated with nanomaterials allow strong light-matter interaction, leading to exotic responses. Recent advances in nanofabrication have made it possible to create intelligently engineered nanostructures of subwavelength dimensions with controllable optical properties for various applications. Photonics and biophotonics are two areas that have benefitted immensely from such nano-engineered materials. This Special Issue aims to showcase the latest developments in nanophotonics, bio-nanophotonics, and their application domains. Potential topics include, but are not limited to:

- nanomaterials for photonics and plasmonics;
- metamaterials, photonic crystals, and metasurfaces;
- green nanophotonics including solar energy conversion;
- topological photonics;
- nanobiophotonics: sensing and imaging;
- nano-optoelectronics;
- nonlinear optics at nanoscale;
- quantum plasmonics.

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.

Editor-in-Chief

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