Special Issue

Advances in Plasmonics, Metamaterials, Nanophotonics and Their Applications of Light Modulation and Detection

Message from the Guest Editors

This Special Issue will cover interdisciplinary topics at the frontier of nanomaterials and nanodevices, covering a wide range of applications in nanophotonics, plasmonics and metamaterials, including plasmonic waveguides, 2D material nanostructures, metamaterials and metasurfaces, advanced developments and applications in nanophotonics, topological photonics and microwave photonics, light modulation, sensing and detection, metalens and their optical imaging, etc. Submissions should be devoted to research on nanomaterials and nanocomposites (perovskites, phase-change materials, 2D materials, 3D-structured nanomaterials, topological materials, etc.), device fabrications, advanced nanomaterials, optoelectronic and electromagnetic properties and the investigation of theoretical (and modeling of) structure–property relationships. This Special Issue aims to provide a specialized platform for researchers working in this field where they can share new results, challenges and perspectives with regard to new advances in plasmonics, metamaterials and nanophotonics, light modulation and detection applications and roadmaps for new directions in this field.

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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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