Special Issue

Advances in Plasmonics and Nanophotonics

Message from the Guest Editors

Recent developments in subwavelength localization of light have paved the way to novel research directions in the field of optics, plasmonics, and nanophotonics.

The underlying physics of resonant nanostructures, which can easily trap incident light and create high-density concentrations of electromagnetic energy, are the main thrusts that drive advances in plasmonics and nanophotonics and bring all-optical communication and data processing one step closer. Lately, researchers have shed light on the remarkable progress in all-dielectric resonant nanophotonics by setting high expectations for novel discoveries and demonstrating many promising applications in imaging, sensing, signal processing, and quantum technologies, which basically indicates that reaching novel horizons for further success of photonics and optics is not solely based on plasmonics.

In this Special Issue of Nanomaterials, we aim to seek and emphasize state-of-the-art research and development efforts in plasmonics and nanophotonics, and we warmly welcome original article and review submissions.

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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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