Special Issue

Light–Matter Interactions Enabled by THz Low-Dimensional Nanophotonic Structures

Message from the Guest Editors

The emergence of nanophotonics has opened up exciting avenues for advancements in science and technology, particularly within the terahertz (THz) spectral domain. In this domain, electromagnetic wavelengths span from several tens of micrometers to the millimeter range. The forthcoming Special Issue on light–matter interactions enabled by THz low-dimensional nanophotonic structures promises to be an enlightening exploration into a diverse array of captivating topics within the realm of THz science and technology. This issue will serve as a comprehensive platform to delve into various aspects of THz wave generation, interactions between THz waves and matter, THz nonlinear optical effects, the fabrication and characterization of THz nanophotonic structures and materials, as well as the development of cutting-edge THz devices.

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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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