Special Issue

Intelligent Metasurfaces: Toward High Efficiency, Multifunctionality, and Tunability

Message from the Guest Editors

Metasurfaces are currently one of the most important topics in the field of nanomaterials due to their ability to generate interesting phenomena, such as focusing lenses, beam deflectors, holograms, and perfect conversion between propagating waves and surface waves. Depending on the unique control property of light, new intelligent metadevices based on metasurfaces with high efficiency, multifunctionality, and tunability can be realized. Furthermore, intelligent metasurfaces have found wide applications in optical calculation, plasmonic networks, and nanoimaging. This Special Issue focuses on the latest theoretical developments and practical applications of intelligent metasurfaces for the realization of high efficiency, multifunctionality, and tunability. We invite both academic and industrial researchers to submit state-of-the-art works on new principles and future applications of intelligent metasurfaces.

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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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