

Special Issue

Metamaterials and Metasurfaces for Advanced Electromagnetic Wave Manipulation and Applications

Message from the Guest Editors

Over the past decade, remarkable progress has been witnessed in the field of metamaterials and metasurfaces, offering a unique avenue for generating, guiding, modulating, and detecting light, thanks to their structural features that are significantly smaller than the operational wavelength. The development of metamaterials and metasurfaces has paved the way for intriguing applications, ranging from achieving a negative index of refraction, imaging with sub-wavelength resolution, beamforming, polarization control, wavefront shaping, data processing, and highly flexible sensing and modulation. This special issue aims to provide a comprehensive platform for researchers, scientists, and engineers to share their latest findings, innovative designs, and practical applications in this rapidly evolving domain. We welcome original research articles, review papers, and communications covering a wide range of topics, including theory, design optimization, characterization techniques and applications of metasurface and metamaterials. Submit your work and contribute to the advancement of this exciting field!

Guest Editors

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Dr. Linda Shao

Dr. Liming Si

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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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