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Metalens: Applications and Manufacturing

Guest Editor:

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Message from the Guest Editor

Benefiting from the development of nanofabrication technology, the metalens, as a breakthrough of optical design, has demonstrated tremendous capabilities in manipulating light including diffraction-limited focus spot, broadband achromaticism, wide field-of-view, polarization functionalities, etc. The ultrathin and ultralight features as the core advantage of the metalens are the ever-growing requirement of modern applications, such as in the fields of imaging, spectroscopy, color/polarization routing, tunable focusing, augmented/virtual reality, and other unexplored applications. Someday, the metalenses will make it into the industry and toward real applications when it meets commercial manufacturing capability. The main focus of this Special Issue is to cover the recent advances in newly developed state-of-the-art metalens-related topics, such as metalens for quantum information, polarization-multiplexed metalens, polarization-independent metalens, Complementary Metal-Oxide-Semiconductor (CMOS) compatible process for metasurface, low aspect ratio dielectric metasurface, materials for visible metalens, wafer-scale integration, and the characterization of metalens.

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Editor-in-Chief

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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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