

Special Issue

Optical Metasurface: Applications in Sensing and Imaging

Message from the Guest Editors

Optical metasurfaces have emerged as a disruptive technology, offering ultrathin, highly efficient solutions for imaging, sensing, and optical computing. In imaging, metasurfaces are transforming biomedical imaging, endoscopy, and microscopic techniques by enabling aberration-free optics, super-resolution imaging, and multifunctional lenses. In sensing, metasurfaces enhance detection sensitivity for biomolecules, gases, and environmental monitoring, providing real-time, label-free, and high-precision analysis. Additionally, metasurface-based optical computing is accelerating edge detection, Fourier transformation, and data processing for compact, ultrafast computational platforms. This Special Issue aims to highlight recent advances in metasurface design, fabrication, and applications across imaging, sensing, and optical computing. We invite contributions that focus on novel metasurface architectures, multifunctional designs, and real-world implementations to foster interdisciplinary research in this rapidly evolving field.

Guest Editors

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Deadline for manuscript submissions

20 October 2025



Photonics

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CiteScore 3.5



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