Special Issue

Photonic Metasurfaces: Advances and Applications

Message from the Guest Editor

With the continuous progress of nanofabrication technologies, metasurfaces have become an important platform for multi-dimensional optical field modulation, providing versatile control over phase, polarization, amplitude, and frequency. These capabilities have substantially extended their applications in photonics such as augmented reality, virtual reality, polarization detection, polarization imaging, structured light, and so on. This Special Issue emphasizes recent advances in optical applications enabled by metasurfaces, particularly those that transcend the limitations of conventional diffractive components. These advances enable the realization of lightweight, miniaturized, and integrated optical devices, further advancing the field of metasurface-based photonic integration. We invite original research articles and reviews. Research areas may include (but are not limited to) the following: Multidimensional optical modulation. Metalens and light-field imaging. Structural color based on metasurface. Polarimetry and polarization imaging. Applications of metasurfaces in multispectral/hyperspectral imaging, biosensing, augmented/virtual reality, and structural light.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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