Special Issue

Metasurfaces and Applications of Communication/Imaging/Signal Processing

Message from the Guest Editors

It is known that over the past dozen years, we have witnessed the amazing progress of metasurfaces. As artificial structures, metasurfaces can manipulate the magnitude, phase, polarization, propagation and guided-wave properties of waves to enable various optical and electromagnetic functions. Advanced versions of metasurfaces, including digital-coded surfaces, programmable surfaces and reconfigurable intelligent surfaces (RISs), have further enriched the aforementioned functions. Nowadays, cutting-edge practical applications of metasurfaces are being conducted in areas such as sixth-generation (6G) communications, optical signal processing, optical and microwave sensing, biomedical imaging, radar, lidar, and spectroscopy applications. The Special Issue includes, but is not limited to the following topics: Surface-based optical and photonic components, e.g., optical grating, subwavelength devices and components, photonic bandgap structures, optical waveguide, etc. Surface-based guided-wave components and antennas. Wireless communication and sensing applications with advanced metasurfaces. Imaging and optical signal processing applications with advanced metasurfaces.

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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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