Special Issue

Multifunctional Metasurfaces: Design Strategies and Applications

Message from the Guest Editors

As the planar version of metamaterials, metasurfaces have attracted wide interest recently due to their enriched degree of freedoms to manipulate and control electromagnetic (EM) waves. However, conventional metasurfaces are mainly designed to control a single physical aspect (i.e., either phase, frequency, polarization, or amplitude) of EM waves, and thus cannot satisfy the requirements of modern photonic applications for multifunctional integration and miniaturization. Therefore, one ongoing trend is to perform different functionalities with a single metasurface. In this Special Issue, the developing trends of multifunctional metasurfaces will be highlighted. This Special Issue aims to be a showcase of the design strategies and diverse applications of multifunctional metasurfaces, from optical to microwave regimes. It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome. Topics of this Special Issue include, but are not limited to, the following:

- Spatially multiplexed metasurface;
- Tunable and intelligent metasurface;
- Vectorial metasurface;
- Full-space metasurface;

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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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