Special Issue

Plasmonics for Advanced Photonic Applications

Message from the Guest Editors

Plasmonics, exploiting the unique optical properties of surface plasmons, has evolved from fundamental studies of light-matter interactions into a platform for advanced photonic applications. It holds great potential to address size mismatch between diffraction-limited photonic devices and nanoscale electronic components. By enabling the manipulation of light at nanoscale, beyond the diffraction limit, plasmonics is paving the way for next-generation photonic applications, including sensing, imaging, ultrafast lasing, optical and quantum communications, and energy conversion. Novel hybrid architectures that merge plasmonics with photonics are now driving the development of highly integrated photonic devices that promise unprecedented performance and miniaturization. We are pleased to invite you to submit your original research to the SI on *Plasmonics for Advanced Photonic Applications*. This SI aims to highlight recent progress and emerging directions in this rapidly evolving field. The collected contributions encompass both fundamental research, ranging from plasmonic theory and material design to nanoscale field manipulation, and practical photonic applications.

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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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