Special Issue

Plasmonic Metasurfaces: Science and Applications

Message from the Guest Editors

Plasmonic metasurfaces have emerged as a revolutionary technology, enabling unprecedented control over electromagnetic waves at the nanoscale. These engineered surfaces have demonstrated significant potential in applications spanning optical communication, sensing, imaging, and energy harvesting. By leveraging plasmonic resonances and nanophotonic principles, metasurfaces can manipulate light–matter interactions with high efficiency, opening new frontiers in science and technology. We welcome contributions that explore novel theoretical approaches, experimental advancements, and interdisciplinary applications in areas such as optical signal processing, biosensing, quantum optics, wireless communications, and beyond. Topics of interest include, but are not limited to, the following:

- Advanced design and fabrication techniques for plasmonic metasurfaces;
- Plasmonic metasurfaces for optical and wireless communication systems;
- Applications in sensing, imaging, and energy harvesting;
- Integration of metasurfaces with IoT and smart city technologies;
- Emerging trends in nanophotonics and light–matter interaction.

Guest Editors

Prof. Dr. Tao Wang

School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan 430074, China

Dr. Rahul Priyadarshi

Department of CIOT, ITER, Siksha 'O' Anusandhan (SOA) University, Bhubaneswar 751030, India

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Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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