

## Special Issue

# Photonic Devices Based on Plasmonic or Dielectric Nanostructures

### Message from the Guest Editors

Metallic and dielectric nanostructures have been vastly investigated in recent years due to their capability of enhancing light-matter interaction at the nanoscale. Attending to their near-field properties, strong electromagnetic energy confinement energy either in the surroundings or inside the nanoparticles has found applications in many different fields (e.g., sensing, solar cells, detectors, optical communications). This Special Issue invites manuscripts that introduce recent advances in metallic and/or dielectric nanostructures for designing photonic devices. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Metallic and/or dielectric nanostructures for absorption enhancement: solar cells, photodetectors;
- Metallic and/or dielectric nanostructures for sensing;
- Metallic and/or dielectric nanostructures for switching devices;
- Metallic and/or dielectric nanostructures for building holograms;
- Metallic and/or dielectric nanostructures for color filters;
- Tunable photonic devices by means of liquid crystals;
- Tunable photonic devices using phase-change materials.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2024)



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## About the Journal

### 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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