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, photodectectors;
- 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.

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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

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).