



Advanced Metamaterials and Metadevices

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Prominent progress in the development of integrated all-optical and optoelectronic instruments based on 3D and quasi-infinite photonic and plasmonic metastructures has entered a new level in recent years due to possessing intriguing properties and having an undeniable role in the implementation of modern applications in diverse fields, including but not limited to medical diagnostics and label-free genetic analysis, cellular level imaging, astronomy, security and military, nondestructive quality control, high-bandwidth communication, and advanced computational systems. Driven by the ongoing race to augment both responsivity and efficiency of photonic tools, researchers are now able to devise on-chip instruments in unique architectures. Keeping the progresses, challenges, and prospects in mind, this Special Issue of Photonics entitled “Advanced Metamaterials and Metadevices” focuses on fundamental and applied research in the field of metamaterials and associating devices in order to develop efficient, responsive, and integrated photonic and plasmonic metadevices.

- plasmonics
- nanophotonics
- metamaterials
- metadevices
- nonlinear optics
- metasensors
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