Special Issue

Metamaterials for Advanced Photonic Devices

Message from the Guest Editors

We are pleased to invite you to contribute to this Special Issue entitled “Metamaterials for Advanced Photonic and Plasmonic Applications”. Optical metamaterials composed of artificial sub-wavelength structures with intriguing electromagnetic properties have emerged as a new frontier of science and technology in the last two decades. This rapidly expanding research field involves researchers from interdisciplinary fields such as physics, chemistry, engineering, and photonics to realize novel metasurfaces with exotic and customized optical properties. Metamaterials offer several applications, such as perfect lens, negative refraction, lasing, biosensing, light sources, invisibility cloaking, and control of spontaneous emission enhancement.
This Special Issue will focus on recent advancements in potential topics such as, but not limited to, on-chip beam structuring devices, metasurface-based holography, color images, phase and wavefront control, all-dielectric metamaterials for optoelectronic devices, epsilon-near-zero metasurfaces, nonlinear metasurfaces for ultrafast switching, nano-lasing, and super-resolution.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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