



Advanced Plasmonics and Magneto-Optical Technologies

Guest Editors:

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Deadline for manuscript
submissions:

closed (30 April 2022)

Message from the Guest Editors

Dear Colleagues,

Magnetic nanostructures (consisting of dielectric magnetophotonic hybrid and novel magnetic materials) are frontier research areas. In particular, their application is considered necessary in label-free ultra-sensitive refractive index probing/sensing, surveying, magnetometry, etc. Likewise, magnetoplasmonics that combines the nanostructures mentioned above with magnetics, plasmonics, and optics is one of the fastest-growing subfields of physics. It can create unique electromagnetic fields and investigate their interaction with the surrounding media as they propagate in plane-parallel (longitudinal), polar (perpendicular), and transverse directions. However, in all cases, the main challenge is the realization of compact devices for potential industrial applications.

We are soliciting research papers in the form of short reviews, tutorials, and regular articles. These papers should discuss the state of the art and emerging trends in realizing sensors containing new architectures and materials exploiting the unique ability of plasmonics, magnetics, and magneto-optics in both localized and propagating plasmon configurations.

