Special Issue

Advanced Plasmonics and Magneto-Optical Technologies

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

Editor-in-Chief

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