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

Dr. Jorge Ricardo Mejía-Salazar

Dr. Conrad Rizal

Dr. Hiromasa Shimizu

Deadline for manuscript submissions

closed (30 April 2022)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/99976

Magnetochemistry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetochemistry@mdpi.com

mdpi.com/journal/magnetochemistry

Magnetochemis

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/journal/
magnetochemistry

About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Carlos J. Gómez García
Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Inorganic and Nuclear) / CiteScore - Q2 (Electronic, Optical and Magnetic Materials)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).