Special Issue

Magnetic Nanomaterials for Magnetic Sensors

Message from the Guest Editors

Magnetic nanomaterials are very promising materials in both fundamental and application standpoint. This research topic "Magnetic Nanomaterials for Magnetic Sensors" aims to provide a platform for researchers to share current developments, implementations, and future perspectives in magnetic nanomaterials and its subdisciplines. The scope spans from curiosity-driven fundamental scientific research to applied sciences, including bioimaging and medical applications. In this Special Issue, original research outputs, reviews, and perspectives will be considered. Suggested areas of contributions may include but are not limited to:

- Recent advances in magnetic nanomaterials: novel synthesis, characterization, and applications
- Low and high magnetic field sensors based on magnetic nanoparticles
- Magnetism and magnetotransport phenomena
- Magneto-optical materials and devices
- Magnetic nanomaterials-based force spectroscopy such as magnetic tweezers
- Magnetic-nanoparticle-doped liquid crystals
- Application of magnetic nanomaterials in heterogeneous catalysis

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2022)



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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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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).

