

## Special Issue

# Functional Magnetic Materials: From Design to Application

### Message from the Guest Editors

In recent years, progress in functional magnetic materials (FMM) and their applications has received wide and increasing attention. Magnetic materials with designs on a molecular or structural scale exhibit excellent functions and are widely utilized for their outstanding features, including their fast, long-range, and precise responses. This Special Issue aims to publish a collection of cutting-edge original research articles and reviews relating to the most recent efforts on the designs and applications of FMM in various fields, such as magnetic soft robots, magnetic levitation devices, magneto-thermal structures, magnetic-based electronics, magnetically enhanced structures, and magnetic functional devices. Studies on manufacturing and synthesis methods for FMM and advances in functional magnetic field designs are also welcome.

#### Keywords

- functional magnetic materials
- magnetic field design
- magneto-thermal effect
- functional devices
- magnetic-based electronics
- magnetic actuation and sensing mechanism
- magnetic levitation
- magnetic field-assisted manufacturing
- magnetic manipulation
- magnetic materials synthesis
- materials characterization

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### Guest Editors

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### Deadline for manuscript submissions

closed (15 December 2023)



## Magnetochemistry

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## About the Journal

### Message from the Editor-in-Chief

*Magnetochimistry* constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties.

*Magnetochimistry* 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.

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### Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).