

Special Issue

Magnetite Nanomaterials

Message from the Guest Editor

Magnetite nanoparticles have attracted particular attention because of their new properties, originated from size, shape, structure, and composition, but also their applications in a range of multidisciplinary areas, including biomedical, energy, environment and nanoelectronics. The most intriguing aspect of magnetic nanoparticles is that their magnetic properties can be tailored for use in intended application. This Special Issue is aimed to highlight the most recent advances in the development of magnetite nanomaterials including composite systems at the different length scale and their applications from biomedical to the environment. Here, we invite authors to contribute in research articles and reviews on the potential topics, but are not limited to:

- Size- and shape-controlled synthesis magnetite nanoparticles and their magnetic properties
- Self-assembly of magnetic nanoparticles with or without external stimuli
- Multifunctional Magnetic nanoparticles for MRI, magnetic hyperthermia and drug delivery
- Magnetic nanoparticles for energy and environmental applications
- Catalytic magnetic nanoparticles

Guest Editor

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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

Prof. Dr. Carlos J. Gómez García

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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).