

Special Issue

Sustainable Development Based on Magnetochemistry

Message from the Guest Editors

The role of magnetic devices in delivering new solutions for sustainable development has evolved rapidly in recent years. Several aspects make magnetochemistry an attractive subject of research as many of magnetic and spintronic technologies derive from an interplay of processing, microstructure, and properties of magnetic materials on their initial form to promote high-quality devices for several applications, such as magnetic sensing, air-conditioning, power generation, transportation, and telecommunications. In this Special Issue, we will publish articles on the role of materials chemistry and engineering to enhance the correlated physical properties of:

- Soft magnetic materials;
- Hard magnetic, rare-earth free magnetic materials;
- Spintronics materials, graphene spintronics;
- Magnetic recording materials;
- Magnetocaloric and magnetoelectronic materials;
- Piezomagnetic materials;
- Magnetic sensors, power-electronics-based magnetic materials;
- High-frequency and microwave absorption materials;
- New functional magnetic materials and applications.

Guest Editors

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Deadline for manuscript submissions

closed (20 November 2023)



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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).