

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.

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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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).