Special Issue

Ferromagnetism

Message from the Guest Editors

Magnetic materials are essential to achieving a sustainable society. For instance, the development of batteries is required for electric vehicles (EVs), but magnetic materials are absolutely needed for the motor on EVs. At the same time, magnetic materials are used for storage, and their value to smart society has been growing, as they save energy. However, most permanent magnets are made from alloys of rare earth elements (REEs), and mining and processing of the elements produces toxic by-products, leading to ecological challenges around mines and refineries. With these in mind, further studies from fundamental to applicational are indispensable. Topics to be covered include but are not limited to:

- Ferromagnets and antiferromagnets;
- REEs;
- Spintronics;
- Films;
- Recycling;
- Physics, chemistry, and metallurgy;
- Measurement;
- Analysis methods.

Keywords: Ferromagnets and antiferromagnets; Recycling, recovery and separation; Physics, chemistry, and metallurgy; Theoretical and calculations

Guest Editors

Dr. Masami Tsubota

Physonit Inc., Hiroshima, Japan

Prof. Dr. Jiro Kitagawa

Department of Electrical Engineering, Faculty of Engineering, Fukuoka Institute of Technology, 3–30-1 Wajiro-higashi, Higashi-ku, Fukuoka 811–0295, Japan

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Magnetochemistry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetochemistry@mdpi.com

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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
Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

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