

Special Issue

Magnetoelastic Effects

Message from the Guest Editors

This Special Issue aims to provide a valuable forum where scientists of different backgrounds (mathematicians, physicists, engineers and chemists) will be able to share their most recent novel, theoretical and/or experimental, findings on magnetoelastic effects. Topics to be covered include (but are not limited to):

- Mathematical modeling, numerical simulations and experiments on magnetoelastic effects;
- Magnetoelastic effects in connection with the symmetry of crystals;
- Physical effects caused by the interaction of electromagnetic and mechanical phenomena: voltage-controlled magnetic anisotropy in magnonic and spintronic devices; magnetoelastic and thermal effects in magnonic-phononic crystals; strain-controlled devices based on multiferroic and multifunctional materials;
- Topological Structures and magnetization dynamics in multiferroic and multifunctional materials: high-frequency nanoscale spin-wave generation, domain wall motion, dynamics of vortices and skyrmions;
- Micro- and nano-mechanical applications: sensors, actuators, storage, information and communication technology devices.

Guest Editors

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Deadline for manuscript submissions

closed (1 August 2021)



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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).