

# 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

Dr. Giancarlo Consolo

Department of Mathematical, Computer, Physical and Earth Sciences,  
University of Messina, V.le F. D'Alcontres 31, I-98166 Messina, Italy

Prof. Giovanna Valenti

Department of Engineering, University of Messina, Italy

Prof. Andrei Slavin

Department of Physics, Oakland University, Rochester, Michigan, USA

### Deadline for manuscript submissions

closed (1 August 2021)



## Magnetochemistry

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/si/55554](https://mdpi.com/si/55554)

*Magnetochemistry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[magnetochemistry@mdpi.com](mailto:magnetochemistry@mdpi.com)

[mdpi.com/journal/  
magnetochemistry](https://mdpi.com/journal/magnetochemistry)





# Magnetochemistry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.6



[mdpi.com/journal/  
magnetochemistry](https://mdpi.com/journal/magnetochemistry)



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. Carlos J. Gómez García

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

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

##### Journal Rank:

JCR - Q2 (Chemistry, Inorganic and Nuclear) / CiteScore - Q2 (Electronic, Optical and Magnetic Materials)

##### 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).