

## Special Issue

# Electro-Magnetic Phenomena Applications in Functional Magnetic Materials

### Message from the Guest Editors

The current Special Issue is interested in functional magnetic materials and their relevant electro-magnetic properties, and all scientists are welcome to share their valuable results on the physical, chemical, structural, and magnetic properties of these materials and their applications related to this topic. Topics to be covered include, but are not limited to:

- Additive manufactured magnets: 3D printing of soft and hard magnets and the correlation between the relevant functionality and microstructure.
- Magnetic refrigeration: magnetocaloric effect of various magnetic systems.
- Spin coupling and the exchange bias effect in inhomogeneous magnetic systems.
- Gene/molecule delivery via magnetic nanoparticle plants
- Magnetic nanomaterials', nanopesticides' and nanofertilizers' applications in plant disease control and plant health improvement.

### Keywords:

- additive manufacturing
- magnetic refrigeration
- magnetoresistive properties
- magnetic nanoparticles

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 November 2021)



## Magnetochemistry

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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.

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### 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).