

## Special Issue

# Novel Research on Crystal Structure and Magnetic Properties

### Message from the Guest Editors

This Special Issue focuses on the exploration of magnetism in novel crystal structures. The study of magnetic properties in these new materials has become a significant topic of interest among researchers. Through theoretical and experimental studies of the electron spin degrees of freedom in novel crystal structures, unique magnetic behaviors of these materials have been revealed. For instance, new crystal structures may exhibit unconventional spin orders and magnetic exciton structures that are rarely seen or absent in traditional materials. Additionally, by tuning various parameters of the crystal structure such as lattice constants, ion radii, and crystal symmetries, further control over the material's magnetic properties is achieved, demonstrating versatility and tunability. By integrating theoretical simulations with advanced experimental techniques, it is anticipated that novel magnetic phenomena in new materials will be unveiled, providing new insights and methodologies for future materials designs and applications.

### Guest Editors

Dr. Huifei Zhai

1. School of Molecular Sciences, Arizona State University, Tempe, AZ 85287-1604, USA
2. Department of Physics, China Jiliang University, Hangzhou 314423, China

Dr. Pan Zhang

College of Sciences, China Jiliang University, Hangzhou 310018, China

### Deadline for manuscript submissions

closed (31 December 2025)



**Magnetochemistry**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 2.5**  
**CiteScore 5.8**



[mdpi.com/si/209833](https://mdpi.com/si/209833)

*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 5.8



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



## 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 Burjassot, Spain

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPIus / 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 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).