Special Issue

Stimuli-Responsive Magnetic Molecular Materials

Message from the Guest Editors

Dear colleagues, This Special Issue aims to provide a valuable forum where scientists in different fields will be able to share their most recent novel findings on the control and manipulation of physically and practically important properties of molecule-based materials. Topics to be covered include but are not limited to:

- Molecule-based magnets: magnetoelectric effect, electric field control of spin states and magnetic exchange coupling in molecule-based magnetic materials, mixed valence systems, etc., in spin communication;
- Temperature- and pressure-induced spin-crossover (SCO) phenomenon, valent tautomerism, light-induced excited spin state trapping (LIESST);
- Light-responsive magnetic molecules: single-molecule magnets, single-chain magnets, and chiral magnets, optical switching at molecular level and photoinduced charge transfer;
- Photoswitching, photomagnetic effect, photomagnetic chromophores, photoinduced charge transfer, light-induced changes in spin state and structure;
- Applications of stimuli-responsive magnetic molecular materials in molecular electronics, spintronics, and quantum computing;
- Stimuli-responsive magnetic particles in biomedical applications.

Guest Editors

Prof. Dr. Boris Tsukerblat

1. Department of Chemical Sciences, Materials Research Center, Ariel University, Ariel 4076414, Israel
2. Department of Chemistry, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel

Prof. Dr. Andrew Palii

Institute of Problems of Chemical Physics, 142432 Chernogolovka, Moscow Region, Russia

Deadline for manuscript submissions

closed (30 June 2021)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/42807

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

mdpi.com/journal/magnetochemistry

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

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 Burjasot, 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 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).