Special Issue

Advances in Low-Dimensional Magnetic Materials

Message from the Guest Editor

Low-dimensional magnetic materials have fascinating applications in the field of magnetic storage, catalysts, sensors, environmental treatment, and microwave absorption. The long-range order is broken when the size of magnetic materials is reduced to the nanoscale, leading to unconventional interfacial structures. The size, shape, defects, atomic surroundings, and terminal structure are vital in adjusting the electronic and magnetic structures of low-dimensional structures. Therefore, novel low-dimensional magnetic materials with abundant interfaces are desired, either predicted by theoretical calculation or experimental synthesis. Ex situ and in situ techniques play important roles in revealing the relationship between interfacial structures and properties. Meanwhile, multi-fields such as magnetic, electric, optical, and thermal fields are promising candidates to further improve performance in actual working conditions. This Special Issue aims to collect advanced research letters, articles, and reviews on the design, preparation, and characterization of low-dimensional magnetic materials and their applications in catalysis, energy storage, sensors, spintronics, etc.

Guest Editor

Dr. Jialong Liu

Department of Physics and Electronics, School of Mathematics and Physics, Beijing University of Chemical Tech-nology, Beijing 100029, China

Deadline for manuscript submissions

28 February 2026

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/226068

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

MDPI

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 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 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).