

Special Issue

Magnetocaloric Effect: Theory, Materials and Applications

Message from the Guest Editor

The magnetocaloric effect (MCE) is due to the temperature change provoked by the application of a magnetic field. In this special chapter, the articles should improve:

- theoretical scientific knowledge (thermodynamics, magnetism)
- simulation studies (ab initio, Montecarlo)
- materials with high functional properties
- applications studies and development/simulation of specific devices (actuators, sensors, energy). As an example, magnetic refrigeration technology has brought an eco-friendly alternative to the conventional gas compression (CGC) technique.

This special issue is open to new ideas and approaches, as well to review articles. Dr. Joan-Josep Suñol Martínez

Guest Editor

Prof. Dr. Joan-Josep Suñol

Composite Campus- Materials and Thermodynamics labs, University of Girona, 17003 Girona, Spain

Deadline for manuscript submissions

closed (30 March 2022)



Magnetochemistry

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/64175

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

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





Magnetochimica

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



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



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, CAPus / 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).