Special Issue

Ferrofluids - Electromagnetic Properties and Applications

Message from the Guest Editor

Ferrofluids, also known as magnetic fluids, were invented in the early 1960s by Steve Papell, engineer at the Lewis Research Center, to be used for rockets in the form of magnetic fuel, which can be magnetically directed from the storage tank to the engine in the absence of gravity. Since then, ferrofluids have been studied both for application purposes and for fundamental research. Because ferrofluids are relatively easy to obtain, with different carrier liquids, different surfactants, and different magnetic particles at different concentrations, they have also been a study material for understanding the electrical and magnetic properties of magnetic nanoparticle systems. This Special Issue aims to publish articles on both the theory and electromagnetic applications of ferrofluids and of composites or structures realized with ferrofluids.

Guest Editor

Dr. Catalin Nicolae Marin

Faculty of Physics, West University of Timisoara, 300223 Timisoara, Romania

Deadline for manuscript submissions

closed (31 May 2023)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/105140

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).