Special Issue

Magnetic Nanoparticles for Biomedicine

Message from the Guest Editor

Magnetic nanomaterials are extremely versatile and can be used in multiple applications. However, there are many challenges for nanoparticle systems in biomedicine—both regulatory and related to the complex bodily fluids that make it difficult to control nanomaterials for biomedical applications. This issue specificially adresses these challenges: How can one control magnetic nanoparticles through external fields? How can we control the interface of nanomaterials and their aggregation within complex fluids? The manipulation and control of magnetic nanoparticles and nanomaterials by external fields and environments is the focus of this Special Issue. This can be medical in vivo or in vitro studies of drug delivery agents based on magnetic delivery or hyperthermia and contrast agent applications for magnetic resonance imaging. Other magnetic separation processes and magnetic nanorobot applications are welcome as well.

Guest Editor

Dr. Sebastian Schwaminger
Chemical Engineering, Massachusetts Institute of Technology, 02139, MA, USA

Deadline for manuscript submissions

closed (28 February 2022)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.8

mdpi.com/si/88811

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 2.8
CiteScore 5.8

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 17.9 days after submission; acceptance to publication is undertaken in 5.5 days (median values for papers published in this journal in the first half of 2026).