



Advances in Electrochemical Properties of Magnetic Materials

Guest Editor:

Dr. Hong Zhong

Department of Chemical and
Biomolecular Engineering,
University of Houston, Houston,
TX 77204, USA

Deadline for manuscript
submissions:

closed (31 May 2024)

Message from the Guest Editor

The electrochemical properties of magnetic materials involve their response to electrical stimuli, encompassing charge storage and transfer, reactivity in electrochemical reactions, and magnetic behavior. This Special Issue centers on advancing our comprehension and characterization of magnetic materials' properties, with a particular focus on their applications in diverse fields, including energy storage, catalysis, and biomedical technologies: (1) Synthesis and characterization of magnetic materials with improved electrochemical properties; (2) Fundamental principles and mechanisms underlying the electrochemical properties of magnetic materials, such as their charge storage and transfer capabilities; (3) Potential applications of magnetic materials in electrochemical devices, such as batteries, supercapacitors, and sensors; (4) Magnetic materials in catalytic reactions and exploring their potential for use as catalysts; (5) Magnetic materials in biomedical technologies, such as drug delivery and magnetic resonance imaging (MRI).





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

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 \(Electronic, Optical and Magnetic Materials\)](#)

Contact Us

Magnetochemistry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/magnetochemistry
magnetochemistry@mdpi.com
[X@Magnetochem](#)