## **Special Issue**

# Fine Tuning of Magnetic Iron Oxide Nanostructures

## Message from the Guest Editor

Magnetic iron-oxide-based nanoparticles, thin films and nanowires are of special interest in the scientific community due to their versatility. They are fundamental components in so many fields ranging from permanent magnet market, spintronics, microwave technology and biomedical applications to water decontamination. Precise tuning of their remarkable properties can be performed by preparation and processing conditions, dopants, intralayers, coatings, strain, etc. Slight variations in size, morphology, geometry, etc., can influence considerably the end results. I would like to invite you to contribute a research paper or review to the Special Issue "Fine Tuning of Magnetic Iron Oxide Nanostructures". This Special Issue is focused on the latest insights into adjusting specific functionalities in order to resolve some of the current necessities of modern magnetic materials. The following research fields are highlighted:

- Nanomagnetism;
- Functional materials;
- Smart materials and composites;
- Biomaterials:
- Ferrites:
- Interfacial coupling;
- Annealing in magnetic fields;
- Dopants:
- Size effects.

We look forward to your valuable contributions to this Special Issue.

## **Guest Editor**

Dr. Simona Gabriela Greculeasa National Institute of Materials Physics, Magurele, Romania

## Deadline for manuscript submissions

20 July 2026



## Magnetochemistry

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## **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

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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).

