# Special Issue

# Superconductivity, Magnetism and Electromagnetic Properties of Materials

## Message from the Guest Editors

The major aim of this Special Issue is to bring researchers and scientists around the world to share their research and important findings on the functional properties of magnetic and superconducting materials and their application in environmental and biomedical energy. Topics to be covered include but are not limited to:

- Superconductivity and magneto-transport properties;
- Magnetic phase diagram and interplay between superconductivity and magnetism in various types of superconductors;
- Doping-induced superconductors and their magnetic and electronic properties;
- Design, synthesis, and magnetic properties of nanoparticles;
- Magnetoresistance measurements, temperature dependence, and magnetic anisotropy;
- Correlation between magnetic properties and crystalline structure;
- Chemical modification of nanomagnetism;
- Diluted magnetic semiconductors;
- Enhanced permanent magnetic properties via grain boundary engineering.

### **Guest Editors**

Dr. Md. Shahriar A. Hossain

Prof. Dr. Wenxian Li

Dr. Mahboobeh Shahbazi

### Deadline for manuscript submissions

closed (31 December 2020)



# 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

Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

### **Author Benefits**

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indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

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### 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).

