



*materials*



an Open Access Journal by MDPI

## Magnetic Compounds: From Fundamentals to Applications

Guest Editor:

**Prof. Dr. Yin Zhang**

MOE Key Laboratory for  
Nonequilibrium Synthesis and  
Modulation of Condensed Matter,  
School of Physics, Xi'an Jiaotong  
University, Xi'an 710049, China

Deadline for manuscript  
submissions:

**closed (31 January 2022)**

### Message from the Guest Editor

Previously, only those materials that exhibited ferromagnetic or ferrimagnetic properties were considered as “magnetic.” In contrast, now, many compounds with diamagnetic, paramagnetic, and ferromagnetic properties are also been put into the concept of magnetic materials and widely investigated as well.

At this moment, it is difficult to imagine a world without magnetic compounds. However, we have to admit that some fundamental problems related to magnetism or magnetic materials have still not been generally solved, even if we claim to be very “familiar” with them. From this perspective, the main focus of the forthcoming Special Issue is to publish some of the latest research points and understandings related to the physical mechanisms involved in magnetic compounds, and the development of their novel applications, as well as explorations beyond that.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.



[mdpi.com/si/72983](https://mdpi.com/si/72983)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## 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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)