

Special Issue

Advances in Lanthanide Coordination Chemistry

Message from the Guest Editor

Lanthanides, due to their specific electronic properties, making them suitable candidates for the design of single-molecule/chain magnets, photoluminescent compounds or catalysts having a wide range of potential applications. The coordination chemistry of lanthanide is central to obtaining the requested electronic properties and to reaching the targeted physical properties. Chemists, physicists, and theorists are working hand in hand to enhance the performances of lanthanide-based materials through the coordination chemistry of lanthanide. For example, coordination of organic chromophore is able to overcome the Laporte forbidden rules allowing the observation of efficient photoluminescence sensitization and exclusive axial coordination of strong Lewis basis ligands, leading to high blocking temperature in SMMs. This Special Issue aims at publishing a collection of research contributions highlighting the recent achievements in lanthanide coordination chemistry to favor specific ingredients such as crystal field splitting, magnetic anisotropy, etc. for the observation of photoluminescence, slow magnetic relaxation, MOFs, catalytic reaction, etc.

Guest Editor

Dr. Fabrice Pointillart

Rennes Institute of Chemical Sciences, University of Rennes 1, 35042 Rennes Cedex, France

Deadline for manuscript submissions

closed (30 November 2021)



Magnetochimie

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/61815

Magnetochimie
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
magnetochimie@mdpi.com

[mdpi.com/journal/
magnetochimie](https://mdpi.com/journal/magnetochimie)





Magnetochemistry

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



[mdpi.com/journal/
magnetochemistry](https://mdpi.com/journal/magnetochemistry)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Carlos J. Gómez García

Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjassot, 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 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).