

Special Issue

Perspectives on Lanthanides as Single-Molecule Magnets

Message from the Guest Editors

Single-molecule magnets (SMMs) are a textbook example of synergetic effects arising from the interplay of chemistry and physics that ultimately composes a vibrant and established research field of extraordinary multidisciplinary. Lanthanide ions are ideal candidates for designing SMMs as a result of their unparalleled magnetic anisotropy arising from the unquenched orbital angular momentum in the ligand field. Recently, SMMs containing a monolanthanide center have been the main focus of this field due to their outstanding performance in obtaining a large anisotropic barrier for the reversal of magnetization and high blocking temperatures. Therefore, this Special Issue of *Magnetochemistry* aims to publish a collection of research contributions highlighting the significance of lanthanide complexes in developing SMMs and promoting new investigations of their magnetic relaxation, quantum effects, multifunctionalities, etc.

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Deadline for manuscript submissions

closed (31 December 2021)



Magnetochemistry

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 4.6



mdpi.com/si/80149

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About the Journal

Message from the Editor-in-Chief

Magnetochimistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties.

Magnetochimistry 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.

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