

Special Issue

Molecular Magnetism 2021: Paradigmatic Landmarks and Horizons

Message from the Guest Editor

Among the many article collections and journal issues dedicated to molecular magnetism, the present call should be distinguished as aiming at a critical overview reconstituting central paradigms of the domain. The proposed perspective is to regard molecular magnetism as the modern face of magnetochemistry, born about three decades ago, revisiting and enriching, from the prism of structure–property rational correlations, several principles which have been known to physicists for a very long time. The aim is to translate molecular magnetism into chemical language and intuitively examine the knowledge initially expressed in solid state terminology. To that end, coordination chemistry has already offered various valuable case studies, allowing a systematic check on the nature of ions, nuclearity, topology, geometry of the bridges, etc. Another key factor is the availability of modeling methods, along the computer revolution, with which the molecular magnetism has evolved symbiotically, rationalizing the structural causes of exchange coupling and magnetic anisotropy. We invite and await your original contributions to this domain.

Guest Editor

Dr. Marilena Ferbinteanu
Inorganic Chemistry Department, Faculty of Chemistry, University of Bucharest, 020462 Bucharest, Romania

Deadline for manuscript submissions

closed (20 December 2021)



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

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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 Burjassot, Spain

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