Special Issue

Magnetically Bistable Molecular Systems Impacted by Non-covalent Interactions

Message from the Guest Editors

Non-covalent interactions such as hydrogen bonding, *p*-*p* interactions and halogen bonding have proven to have tremendous effects on properties of molecular based compounds. Thus, it is not surprising that molecule-based magnetic materials exhibiting some type of magnetic bistabillity are also susceptible to their influence. From many already observed structure-property relationships in such compounds, one can easily recall e.g. an occurrence of multiple relaxation processes in Single-Molecule Magnets or different levels of cooperativeness in Spin-Crossover complexes, which both are often explained within the framework of non-covalent interactions presented among the molecules. Therefore, in this special issue, we would like to invite the authors to contribute with original works in the field of molecular magnetism aimed at magnetically bistable compounds whose properties are influenced or governed by non-covalent interactions. Keywords

- single-molecule magnets
- molecular magnets
- spin crossover compounds
- non-covalent contacts
- molecular magnetism
- crystal engineering

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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

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