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Magnetically Bistable Molecular Systems Impacted by Non-covalent Interactions

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Message from the Guest Editors

Dear Colleagues,

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 bistability 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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