



Reviews on Slow-Relaxation Molecules

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Message from the Guest Editors

Dear Colleagues,

The discovery of the first Single Molecule Magnet and the first Single Chain Magnet, making the investigation of slow relaxation of the magnetization phenomena became a field of intensive interdisciplinary research. Beyond their relevance in Physics and Chemistry, one expects spectacular applications in quantum computing and high-density information storage from these molecules. In the last twenty years or so, a huge number of mono- and oligo-nuclear complexes, 1D coordination polymers, homo- and hetero-spin systems have been synthesized and the investigation of their dynamic magnetic properties revealed the determinants influencing the relaxation phenomena. The subtle factors influencing the magnetic anisotropy are more and better understood. This understanding further serves as a guide for the design of new, and higher performant SMMs and SCMs. An important step towards applications was achieved by organizing SMMs on surfaces.

We think that a collection of review articles presenting the state-of-the-art in this exciting field will be useful for researchers as well as for students.

