Special Issue

Spin Switchable Molecules: Properties and Applications

Message from the Guest Editors

Switchable magnetic molecules are versatile spin systems with properties that bridge the gap between quantum and classical properties. The properties of many molecular magnets can be fine-tuned to change their material form from crystalline solids to ionic liquids, micelles, or gels, or to engineer them onto surfaces or into nanomaterials.

This Special Issue aims to establish a collection of research contributions illustrating the recent achievements in all aspects of the development, study, and understanding of spin-switchable molecules. The focus will be on spin crossover materials that can readily change their internal arrangement of d electrons from paired to unpaired via many perturbation types; contributions on other types of molecular magnet are also welcome.

Accepted contributions may include reports on new examples of molecular switches, their integration into new material forms, the structural properties of bulk or hybrid materials, magnetic, optical, and electric, properties, and electronic structures. Theoretical studies of phenomena associated with spin switching are also welcome.

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