Special Issue

Controlling Molecular Nanomagnets

Message from the Guest Editor

Molecule-based magnets are emerging as active ingredients in spintronic and multi-functional materials. There have been great advancements in the integration of single molecule magnets (SMMs) into electronic device architectures, and the active component of such devices are now utilizing individual magnetic molecules. We are starting to understand how these molecules behave on surfaces and in tunnel-junctions. As such, how we manipulate the quantum and spin features of SMMs is becoming increasingly important. The magnetic properties of SMMs can be influenced using multiple external stimuli, including magnetic field, temperature, pressure, electronic current, microwaves and light. This Special Issue aims to capture a collection of articles that pose emerging ideas on how to manipulate nanomagnets and their underlying mechanisms. We are particularly interested in articles in which the bi-stability of SMMs and magnetic chains are manipulated. We invite colleagues to submit original research articles that fit into one of the key topics listed below.

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2019)

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Message from the Editor-in-Chief

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