Special Issue

Advances in Low-Dimensional Magnetic Materials

Message from the Guest Editor

Low-dimensional magnetic materials have fascinating applications in the field of magnetic storage, catalysts, sensors, environmental treatment, and microwave absorption. The long-range order is broken when the size of magnetic materials is reduced to the nanoscale, leading to unconventional interfacial structures. The size, shape, defects, atomic surroundings, and terminal structure are vital in adjusting the electronic and magnetic structures of low-dimensional structures. Therefore, novel low-dimensional magnetic materials with abundant interfaces are desired, either predicted by theoretical calculation or experimental synthesis. Ex situ and in situ techniques play important roles in revealing the relationship between interfacial structures and properties. Meanwhile, multi-fields such as magnetic, electric, optical, and thermal fields are promising candidates to further improve performance in actual working conditions. This Special Issue aims to collect advanced research letters, articles, and reviews on the design, preparation, and characterization of low-dimensional magnetic materials and their applications in catalysis, energy storage, sensors, spintronics, etc.

Guest Editor

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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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