Special Issue

Photofunctional Molecular Magnets: Development and Their Potential Applications

Message from the Guest Editors

Nowadays the development of functional molecular magnets is becoming one of the main challenges for chemists, physics, and materials researchers. Molecular magnetic materials are essentially based on molecular building blocks where their properties can be tuned/modulated from thousands of small variations that organic/inorganic ligands may present, giving rise to an incredibly rich structural diversity. Among these materials, photofunctional magnets are gaining prominence, as photo-switching materials induce magnetic behavior or clearly show both magnetic and luminescence properties, which is the case of some lanthanide-based single-molecule magnets. Their excellent performances have shown great potential in applications such as high-density data storage, quantum computing, sensing, optical switches, biomedicine, etc. This Special Issue aims at publishing a collection of research contributions illustrating recent achievements in the development of molecular magnets where the presence of photofunctional properties can coexist, as well as their potential applications.

Guest Editors

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About the Journal

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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