Special Issue

Design and Application of Spintronic Devices

Message from the Guest Editor

Spintronic devices represent a leading field in modern electronics, allowing the spin of electrons—in addition to their charge—to store and process information. This emerging technology offers the potential to overcome the limitations of traditional electronic devices, such as energy consumption and scalability. By harnessing the quantum mechanical properties of electron spin, spintronics promises faster, more efficient, and more reliable computation. Applications range from high-performance memory devices to energy-efficient sensors and quantum computing systems. The design of spintronic devices involves the intricate manipulation of magnetic materials and nanostructures, often using novel concepts such as spin-transfer torque and magnetic tunnel junctions. As the field continues to evolve, spintronic devices are poised to revolutionize the electronics industry, leading to more sustainable and powerful computing solutions in the future.

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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