Special Issue

High-Entropy Alloys and Their Magnetic Properties

Message from the Guest Editor

The newly developed high-entropy alloys (HEAs) have drawn significant attention and opened new exciting research areas with a high intrinsic degree of freedom for designing materials with exceptional properties. For example, the equiatomic CrMnFeCoNi with single face-centered cubic solid-solution phase displays strongly temperature-dependent strength and ductility with only a small strain-rate dependence. Today, HEAs are expected to be the most promising candidates to achieve a long-expected breakthrough in a series of technological sectors. This Special Issue aims to highlight the most recent scientific and technological advances in HEAs.Specific topics of interest include but are not limited to (i) combinatorial and high-throughput design of high-performance HEAs; (ii) structural evolution and property description under various pressure, temperature, and magnetic-field conditions; (iii) relevant computational and experimental methods in the field of magnetism; and (iv) magnetocaloric effect near room temperature in HEAs. Research articles, short communications, and reviews are all welcome.

Guest Editor

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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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