Special Issue

Advances in Metal-Containing Magnetic Materials

Message from the Guest Editor

Magnetic materials are materials with ferromagnetic or ferrimagnetic ordering. In a broad sense, they also include weak magnetic and antiferromagnetic materials which can provide magnetism and magnetic effect. Most magnetic materials contain metallic elements with 3d and/or 4f electrons, and they exhibit strong magnetism or significant interaction between magnetism and other physical properties. Magnetic materials have found increasing applications in various fields, including electric motors, mechanical equipment, electronic devices, information recording, sensors, etc. The development of intelligent equipment, AI, 5G, consumer electronics, biomedicine, aerospace technology, and military industry put forward higher requirements for various types of magnetic materials.This Special Issue is focused on the preparation, microstructure, and properties of various metal-containing magnetic materials. Reviews and original articles on microstructured or nanostructured magnetic materials and the magnetic simulation of these materials are welcomed. We also encourage the submission of articles related to novel magnetism-related properties.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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