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Advanced Magnetic Materials

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2020)

Message from the Guest Editor

The research area of magnetic materials is still increasing. Ferromagnets have recently played important roles in magnetic refrigeration, thermoelectricity, and so on. Antiferromagnets are expected to be the next-generation spintronics materials due to the lack of a stray magnetic field. One of the hot topics is the relation between magnetic property and microstructure, especially in the research field of permanent magnets.

Magnetic materials are also well investigated in fundamental works, with some examples of the latest topics including the multichannel Kondo effect, multipolar effect, and quantum spin liquid.

The goal of this Special Issue is to collect articles mainly concerning the frontiers of research in magnetic materials. Both experimental and theoretical approaches are encouraged, and review articles are also welcome.

Topics of interest include but are not limited to:

- Ferromagnetic and antiferromagnetic materials;
- Relation between magnetic property and microstructure;
- Control of magnetic state;
- High-entropy alloy;
- Spintronics;
- Nanostructure;
- Physics, chemistry, and metallurgy;
- Measurement;
- Analysis method

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Message from the Editor-in-Chief

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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