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Phase Transition and Magnetic Effect of Magnetic Alloy

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Message from the Guest Editor

This yielded hypotheses concerning a variety of magnetic effects of magnetic materials, possibly originating not only from their magnetic and/or crystal structures, but also external influences such as pressure, temperature, etc., usually accompanied by the phase transition of the alloys. Such phenomena include increasing the magnetization and coercivity, exchanging coupling, striction, optical effects, etc. Understanding the magnetic effects of magnetic materials is the key to expanding the usability of the materials, i.e., it is impossible to effectively utilize the magnetic material without its full understanding. Therefore, the Special Issue entitled “Phase Transition and Magnetic Effect of Magnetic Alloy” aims to deepen our understanding of the magnetic effects and their relations with the phase transition.

In this Special Issue, we hope to gather articles related to the magnetic effects and phase transitions of magnetic materials, with magnetic and physical properties supporting magnetic effects also being of interest as well as also welcoming theoretical and experimental in-depth analyses of already well-known magnetic effects.

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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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