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Advanced Soft Magnetic Metallic Glass System

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Several advanced materials have been developed during the past few decades to meet the ever-growing requirements and demands of the industry. The soft magnetic metallic glasses, one kind of advanced materials with a wide range of applications in the power electronics industry, are very attractive because of their excellent soft magnetic properties with rather high saturation magnetization, high electrical resistivity, high mechanical strength, and low materials cost, among others. In recent years, research on soft magnetic metallic glasses has seen great progress and achieved a relatively wide range of applications. At the same time, there are still many scientific issues in this field that need to be further studied. This Special Issue aims, therefore, to present the latest research progress related to the design, microstructure, and soft magnetic properties of metallic glasses, as well as to demonstrate the existing and possible future application of advanced soft magnetic metallic glass systems.

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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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