

Special Issue

Magnetization Process of Bulk and Classical Amorphous Alloys

Message from the Guest Editor

This Special Edition of *Metals*, titled “Magnetization Process of Bulk and Classical Amorphous Alloys” will be concentrated around a new group of magnetic materials under the heading of “Bulk Amorphous Materials”.

These unusual materials are characterized by unique properties, in comparison to their crystalline counterparts (given the same chemical composition). These materials have promising potential applications and can substantially affect the protection of the environment and its natural resources, as well as the economics of use. Appropriate design of the magnetization process, through the application of thermal treatment, could substantially influence the performance parameters. Analysis of the initial magnetization curves, according to the Kronmüller theorem, reveals the possibility of determining changes in the number of structural defects in the volume of the investigated samples; i.e., modeling the performance parameters. Moreover, these materials can find applications in military industries, sports industries, or medicine.

Guest Editor

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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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