



Microstructural, Mechanical and Magnetic Properties of Metallic Microwires

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Message from the Guest Editors

The investigation of metallic microwires is considered by international experts in the field of microwires as one of the novel research directions with potential application prospects. Metallic microwires exhibit special microstructural, mechanical and magnetic properties due to the unique preparation processes, and they exhibit different properties from those of bulk metallic glasses (BMGs). Therefore, particular mechanical and magnetic properties of metallic microwires provide the possibility of performance modulation and functional integration applications, especially according to microstructural evolution. In this Special Issue, we invite you to contribute articles that focus on the latest research progress related to preparation processes, including rapid solidification (RS) technology, microstructural characterization and mechanical and magnetic properties, and the interesting physical and chemical effects of metallic microwires, as well as articles that demonstrate innovative multi-functional devices and potential applications based on advanced metallic microwires.





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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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