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Intermetallic Alloys

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Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on understanding and developments for alloy designing, microstructure, processing, and relationship between structure (defect) and properties of intermetallic compounds and multi-phase intermetallic alloys where intermetallic compounds are comprised with other intermetallic compounds or as the major constituents. The issue broadly includes fundamentals of phase relation, phase and microstructure stability; physical, chemical and mechanical response to various environment conditions; developments in innovative processing; and technological developments for commercial applications. Intermetallic phases of interest widely include aluminides, silicides, Ni-, Co-, Fe- and Mg-based compounds, Laves phases and Heusler phases, various close-packed compounds, and multi-phase intermetallic alloys comprising them. Articles are not limited to intermetallic compounds intended for structural and functional applications: Thermoelectric power, magnetic applications, catalysis, shape memory and hydrogen storage alloys will also be considered.

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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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