Special Issue

Intermetallic-Based Materials and Composites

Message from the Guest Editor

In recent decades, intermetallic-based alloys and composites have attracted more and more attention from the research society and industry. These materials possess superior physical and mechanical characteristics to traditional materials, including high specific properties, corrosion resistance, and exceptional high-temperature behavior. The development of novel intermetallic alloys and intermetallic-based composites is associated with the search for appropriate composition, providing the required properties and a choice of beneficial matrix and reinforcment combinations. This Special Issue focuses on the new solutions in the field of intermetallics and composites with intermetallic matrices and metal-matrix materials with intermetallic reinforcement. We welcome reviews and articles in the areas of alloy design, formulation of composite structures, manufacturing aspects, and characterization of novel materials with regard to the structure–properties relationship.

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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