Special Issue

Intermetallic Alloys and Intermatallic Matrix Composites

Message from the Guest Editor

Intermetallic compounds such as Ti-Al, Ni-Ti, Nb-Si, Mo-Si, and their composites are widely used in the aerospace, automotive, and energy fields. There are still many basic scientific uncertainties to be solved in these materials, such as phase transformation, deformation, interface reaction, etc., which are closely related to their applications. In addition, advanced characterization methods, such as transmission electron microscopy, atomic probe tomography, and synchrotron radiation diffraction, have been widely used in intermetallic compounds and their composites. In recent years, a number of high-level research results have been obtained. This Special Issue aims to report the latest research achievements in the field of intermetallic compounds and their composites and promote our understanding of the basic theories and scientific issues therein. Research on novel techniques on the material processing and component applications is also welcomed.

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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