

Special Issue

High-Entropy Alloys: Processing and Properties

Message from the Guest Editors

Since the concept of high-entropy alloys were raised in 2004, entropic alloys and meta-metals have drawn worldwide attention for their vast advantages. At the early research stage, research regarding entropic alloys and meta-metals is mainly focused on the development of high-entropy alloy systems and the exploration on their basic properties. Following this, the elemental and phase compositions are elaborately adjusted for further property improvement, and the mechanisms behind those advanced properties are revealed. Nowadays, based on the above, many methods of entropy alloy design and prediction have been raised and attempts have been made to extend entropic alloys and meta-metals to more scenarios. In this Special Issue, we welcome articles of entropic alloys and meta-metals that focus on elemental and alloy design, in-depth research on the mechanisms of these special alloys, development and optimization aimed at potential industrial applications, and discussions on the practical issues and possible answers regarding large-scale samples.

Guest Editors

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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