Special Issue

Deformation Behavior and Mechanical Properties of High Entropy Alloys (2nd Edition)

Message from the Guest Editor

As a new type of metallic material, high-entropy alloys (HEAs) usually exhibit excellent mechanical properties; thus, they have received much attention in materials science and engineering. Furthermore, because there are more metastable states of HEAs than traditional alloys during processing, corresponding mechanical properties can be obtained under different external conditions. This Special Issue of *Metals* will focus on the microstructure, deformation behaviors, and mechanical properties of high-entropy alloys under different conditions, including but not limited to: dislocation slip and twinning, grain boundary segregation, precipitation and phase transformation, low-temperature/high-temperature deformation, corrosion, wear, fatigue, etc., as well as various methods for strengthening and toughening. The scope will cover fundamental research and all other aspects of alloy preparation, heat treatment, computer simulation, and engineering applications. We are pleased to invite you to submit manuscripts to this Special Issue and share research results.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2024)

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About the Journal

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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