

Special Issue

Advanced Performance of High/Medium Entropy Alloys

Message from the Guest Editor

The advent of high- and medium-entropy alloys (HEAs and MEAs) has broken through the traditional design methodology of alloys and these have been attracting increasing research attention due to their advanced performance and outstanding properties. Recent progress in compositional and structural design concepts, as well as preparation techniques, has further enhanced the performance of HEAs and MEAs, which is included in the scope of this Special Issue. Owing to excellent strength–ductility tradeoff, fracture toughness at ambient and cryogenic temperatures, high-temperature capability, tribological performance, irradiation behavior, corrosion/oxidation resistance, etc., HEAs and MEAs have been considered as promising candidates for future applications in a wide range of industries including aerospace, nuclear, marine, biomedical, energy and mining. In this Special Issue, we welcome review articles and research papers that focus on the advanced performance of HEAs and MEAs and the innovative design methods that lead to such advanced performance. We also aim to shed light on future research.

Guest Editor

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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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