

Special Issue

Design, Microstructure, and Mechanical Properties of Medium-Entropy and High-Entropy Alloys

Message from the Guest Editors

This Special Issue on “Design, Microstructure, and Mechanical Properties of Medium-Entropy and High-Entropy Alloys” aims to gather the latest research and developments in this dynamic field. We invite contributions that explore novel alloy design strategies, microstructure characterization, phase stability, deformation mechanisms, and the relationships between composition, processing, microstructure, and properties in MEAs and HEAs. Studies employing advanced experimental techniques, computational modeling, machine learning, and multi-scale simulations are particularly welcome. Topics of interest also include the development of new MEA/HEA systems, their behavior under extreme environments, and their potential for welding, coating, additive manufacturing, and other joining or fabrication processes. We encourage researchers to submit original research articles and reviews that will deepen the understanding and expand the application horizons of medium-entropy and high-entropy alloys.

Guest Editors

Dr. Jing Peng

Dr. Li Li

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Deadline for manuscript submissions

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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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