# Special Issue

# Microstructure, Properties and Modelling of High-Entropy Alloys

## Message from the Guest Editor

The development of new materials has followed human development since the dawn of our civilization. Highentropy alloys (HEAs) have been changing the traditional alloy development paradigm with multicomponent alloys, several of which have great combinations of mechanical and/or functional properties. These alloys exist over vast, mostly unexplored compositional fields, and we are only starting to unravel their true potential. For the present Special Issue, we encourage the submission of publications focusing on the development, characterization, testing and modeling of HEAs. Works that expand our knowledge on these multicomponent alloys are highly encouraged, which can include in-depth studies or reassessments of existing compositions, modeling of known properties, predictive modeling, and the discovery of new HEA compositions with interesting combinations of properties.

## **Guest Editor**

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## Deadline for manuscript submissions

closed (30 June 2023)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

