

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. High-entropy 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

Dr. Francisco Gil Coury

Department of Materials Engineering, Federal University of São Carlos—UFSCar, SP, São Carlos 13565905, Brazil

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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Message from the Editorial Board

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.

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Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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