Special Issue

High-Entropy Alloys: Structures, Properties and Applications

Message from the Guest Editors

High entropy alloys offer a new paradigm to design metallic alloys with salient properties. Recently, the high entropy alloys are increasingly becoming the focus of researchers, due to their excellent properties such as high strength, ductility, corrosion and creep resistance. And the main prerequisite for the future success of high entropy alloys is further improvements of existing and the development of novel high entropy alloys. The properties of high entropy alloys are mainly based on their structure, from the atomic scale to the macrostructure.This Special Issue is focused on the fundamental development trends in the field together with the most recent advances of the high entropy alloys—synthesis, characterization, structures, properties and applications. We invite you to contribute research work that studies the structure of high entropy alloys and that relates the structure with different properties.

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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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