



High-Entropy Alloys: Progress and Prospects

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Message from the Guest Editors

Dear Colleagues,

High-entropy alloys are considered promising candidates for various applications due to their superior mechanical properties, corrosion resistance, irradiation resistance, oxidation resistance, wear resistance, catalytic activity, etc. High-entropy alloys have attracted wide attention in recent years; thus, we proposed this Special Issue to summarize the progress and advances of high-entropy alloys. The present Special Issue will focus on the following aspects of high-entropy alloys:

High-entropy alloys for applications in special environments such as marine environments and irradiated environments;

Mechanical properties, corrosion resistance, microstructure evolutions, and deformation mechanisms of high-entropy alloys;

The rational data-driven design of high-entropy alloys with desired microstructures or properties;

Simulation techniques of high-entropy alloys such as the molecular dynamic, phase field, and first principles calculation;

The additive manufacturing of high-entropy alloys, such as the selective laser melting, and the laser cladding.

Other related works or review articles about high-entropy alloys are also encouraged.



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Message from the Editor-in-Chief

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