



Deformation Behavior of High-Entropy Materials

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nowadays, HEMs are becoming the main subject matters of non-equilibrium materials and are expected to lead to breakthrough advances and superior performance in a wide array of applications. Although their promise is great, exploring the enormous number of HEM compositions, as well as their structure–property relations, is currently one of the biggest challenges. This Special Issue aims to address the up-to-date theoretical and experimental research on HEMs. Specific topics of interest include but are not limited to: (i) computational and experimental design of HEMs; (ii) phase transformation mechanisms in HEMs; (iii) mechanical properties of HEMs at cryogenic and elevated temperatures; (iv) transformation induced plasticity (TRIP) and/or twinning induced plasticity (TWIP) effects in HEMs, and their influence on mechanical properties. Submissions of reviews and research articles are all welcome.





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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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