Special Issue

High-Entropy Alloys: Progress and Prospects

Message from the Guest Editors

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

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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