



High-Entropy Alloys in New Technological Applications

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Message from the Guest Editor

Dear Colleagues,

Traditionally, metallurgists have added small amounts of certain elements to tailor the properties of an alloy with one principal element, but the approach in itself is very limiting. The new alloying strategy involves the combination of multiple principal components in relatively high concentrations, which gives rise to the so-called high-entropy alloys. High-entropy alloys can potentially provide unique tailored solutions due to the large number of possible combinations of elements to create new materials with improved properties. The challenges to overcome come from the great number of possible element combinations to form high-entropy alloys. Hence, the combined efforts of experimental work and computational modeling is needed for these materials to reach their full potential. The growing relevance of these materials has been broadly recognized, and recently, they have been identified as the number one topic of the upcoming decades. This Special Issue reviews the latest technological applications and advances of high-entropy alloys.





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Message from the Editor-in-Chief

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