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Future Directions of High Entropy Alloys

Guest Editor:

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Message from the Guest Editor

Since their first publication in 2004, the concepts, behaviour and properties of high entropy alloys (HEA) have generated huge scientific interest around the world.

To fulfil their hypothesised potential, these more promising HEA systems require further development before they can be adopted into service. Consequently, efforts need to focus on systems that can either compete with existing classes of materials, which themselves have decades of research behind them, or provide unique capabilities. Examples of such systems include but are not limited to refractory metal high entropy superalloys for high temperature service; alloys with high resistance to radiation damage for nuclear applications; narrow freezing range alloys for joining; and corrosion resistant alloys for environmental resistance. As such, this Special Issue will focus on the potential of high entropy alloys, identify key opportunities for these materials and provide critical opinions as to their future direction.



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Special Issue



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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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