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## High Entropy Materials

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (15 September 2021)**

### Message from the Guest Editor

In recent years, significant research progress has been made in the development and characterization of high entropy materials, such as transition metal-based high entropy alloys, refractory high entropy alloys, high entropy carbides films, high entropy nitrides films, high entropy oxides, and more recently, high entropy bulk ceramics of carbides, borides, nitrides, and silicides. High entropy materials have opened up possibilities for new compositions due to the developments in thermodynamic modeling and fabrication techniques based on conventional routes, such as arc melting, powder metallurgy, physical vapor deposition, thermal spray, and additive manufacturing. The superior properties of the high entropy materials are pushing the boundaries of conventional materials. This Special Issue on High Entropy Materials, bulk and coatings is aimed towards gathering recent research findings from different researchers to understand new insights and properties arising from different fabrication routes, so that the material science of high entropy materials can be accelerated towards the applications of these new materials.



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**Special** issue



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## Editor-in-Chief

### Prof. Dr. Kevin H. Knuth

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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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