



Design, Processing and Properties of High Entropy Ceramics

Guest Editor:

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Message from the Guest Editor

The present Special Issue aims to collect insightful papers on the latest development of high entropy ceramics, which are attracting increasing research interests within the materials science community, for a broad range of applications. High entropy materials have been conceived about twenty years ago when a novel approach based on the combination of multiple elements in the equimolar ratio was proposed to design new metallic alloys. High entropy alloys have shown outstanding mechanical properties, and excellent high temperature and chemical stability. Subsequently, the concept of high entropy design has been successfully applied to ceramics, and a considerable amount of high entropy oxides, nitrides and carbides have been developed, with better properties compared to their traditional counterparts. High entropy ceramics offer significant advantages for various application sectors, including aerospace, energy conversion and storage, catalysis, tribology, and corrosion engineering, among others.

For more information, please refer to the Special Issue website:

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Message from the Editor-in-Chief

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