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Design, Preparation, and Microstructural Characterization of High Entropy Materials

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Message from the Guest Editor

Dear Colleagues,

High-entropy materials (high-entropy alloy, high-entropy oxide, high-entropy...) have attracted tremendous attention and have shown promise regarding exciting applications which have previously been unfathomable to achieve. Owing to their short-range disorder and long-range order nature, these materials maintain a high configuration entropy, which can still sustain phase stability, allowing various adjustment in the mechanical, electrical, optical, magnetic, and catalytic performances of the materials.

Previous research on high-entropy materials has focused on bulk samples. However, as the miniaturization of devices has evolved, there is a need to understand this multiple alloy system at the micro and nano levels.

This Special Issue aims to bring together research papers, short communications, and review articles focused on the novel synthesis, device designs, fabrication, advanced characterization, and artificial intelligence design of various high-entropy materials in order to provide a comprehensive overview of the state of the art within this field

Dr. Wei Ren
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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