Special Issue

Advanced Performance of Copper Alloys

Message from the Guest Editor

Copper alloys have a series of excellent properties, such as high electrical conductivity, thermal conductivity, strength, and corrosion resistance, and are also easy to process. However, existing copper alloys and their related materials have not been able to keep up with the rapid development of high-tech industries such as electronic and electrical engineering, mobile communications, new energy vehicles, aerospace, and rail transportation. Therefore, it is important to develop new copper alloys with more advanced properties. The purpose of this Special Issue is to unite researchers in the field of copper alloys with the latest original research results and provide a reference for future studies on high-performance copper alloys.

Guest Editor

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Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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