



Preparation, Microstructure and Mechanical Properties of Tungsten Alloy

Guest Editors:

Dr. Yong Han

State Key Laboratory of Powder Metallurgy, Central South University, Changsha 410083, China

Dr. Pei He

Institute of Materials, China Academy of Engineering physics, Mianyang 621054, China

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Message from the Guest Editors

Dear Colleagues,

Tungsten alloy materials composed of pure tungsten, alloying elements, and additional phases exhibit excellent room temperature and high-temperature mechanical properties, high electrical conductivity, high thermal conductivity, and so on. Because of the complex service environment, there are greater challenges to material performance and component structure, which require material preparation methods and performance to develop in the direction of ultra-fined microstructure, ultra-high performance, and three-dimensional complex shapes. At present, tungsten alloy materials prepared using traditional methods have obvious shortcomings in terms of preparation technology and performance. Therefore, making breakthroughs in material design and preparation technology is key to realizing their application in the cutting-edge technology field.

Based on the above research hotspots, Crystals invites scholars in related fields to submit to a Special Issue on “Tungsten Alloy Preparation, Microstructure, and Properties”. This Special Issue aims to introduce the design, preparation, performance characterization, and application of new tungsten alloys.





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Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

Message from the Editor-in-Chief

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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