

Special Issue

Transition Metals

Message from the Guest Editor

This Special Issue aims to promote international exchange and to share the latest knowledge and developments in all fundamental aspects of the transition metals and related materials, encompassing characterization, testing, modelling and technological application. Emphasis is placed on innovative approaches and advanced overviews to understand complex relationship between the electronic, nanostructures and microstructural evolution of new transition-metal based materials with improved properties. Of specific interest are the modelling methodologies in all scales based on first-principles linking theoretical understanding with experimental observations. The topics include, but are not limited to, the thermodynamic, defect, magnetic, superconducting and mechanical properties of complex transition-metal alloys and compounds including high-entropy alloys (HEAs) used for structural applications, etc.

Guest Editor

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About the Journal

Message from the Editorial Board

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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