

Special Issue

Properties and Behavior Control of Metallic Materials at High Temperatures

Message from the Guest Editor

The majority of metallic materials have a history of high temperature treatment. Either through liquid to solid transformation or high-temperature deformation, and this history controls the properties and behavior of these materials. This Special Issue aims to present the latest research related to advanced techniques for controlling the properties of metallic materials, by controlling the high-temperature treatment of them. Our aim is to have a collection of papers that talk about how we can enhance the properties of metallic alloys through controlling the casting, solidification, high-temperature deformation, and/or high-temperature treatment of metallic materials. Also, we are keen to look at the performance of metallic materials in high-temperature atmospheres, and how we can enhance this performance.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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