Special Issue

Processing, Microstructure, and Properties of Nonferrous Metals and Alloys

Message from the Guest Editors

Nonferrous metals and alloys are groups of high-performance materials with outstanding physical and mechanical properties; they are widely used in the aerospace, automotive, marine, chemical and biomedical industrial sectors. The microstructure and properties of nonferrous alloys are mainly governed by their fabrication and thermomechanical processing routes. Therefore, an in-depth understanding of the relationship between the processing, microstructure and properties of nonferrous alloys is necessary to optimize their performance and ensure confidence in engineering applications. In this Special Issue, we accept papers covering both experimental and simulation work on the processing, microstructure and properties of nonferrous alloys, including, but not limited to, Ti alloys, Al alloys, Mg alloys, Ni alloys, Zr alloys, Hf alloys, Cu alloys, etc. We aim to collect a wide range of articles on the relationship between the characteristics of these alloys. Research papers, reviews, and short communications are welcome.

Guest Editors

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Deadline for manuscript submissions

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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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