

Special Issue

Processing, Properties, Modelling, and Characterization of Metals and Alloys

Message from the Guest Editors

This is a Special Issue for works submitted to Symposium N : Processing, Properties, Modelling and Characterization of Metals and Alloys, part of the XXI Brazilian Materials Research Society Meeting.

The development of a more sustainable society from the point of view of energy production, storage and transport, environmental preservation and degradation control is strongly dependent on the development of new materials, such as high-entropy materials, as well as a more in-depth, fundamental understanding of conventional and well-established alloy systems. This symposium is dedicated to the presentation of works that use techniques of the production, characterization, modeling, and testing of materials for structural and functional applications. Presentations may include the following: mechanical properties, resistance to corrosion and/or wear, properties for energy storage or conversion, thermal barrier properties, and electrical or optical properties, among others. The characterization of complex phases, such as quasicrystalline, amorphous, glassy, nanocrystalline, and multicomponent solid solutions, as well as their correlation with properties are also of great interest.

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.

Editors-in-Chief

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