Special Issue

Microstructure and Characterization of Metal Matrix Composites

Message from the Guest Editors

It is well recognized that the trade-off between the main properties and operational parameters constitutes an important challenge in engineering applications. It is known that distinct manufacturing routes, including traditional and classical routes, as well as other innovative methods, provide different microstructural arrays. Consequently, these play important roles in the final sound material's properties. Metal alloys or metal matrix composites constituted in situ or produced from a metal alloy, or from the use of distributed particles, have widely been used in several industrial applications. Based on this, it is highly useful to concatenate at least two properties in order to prescribe and promote their potential applications. In this Special Issue, a wide range of manuscripts and investigations will be discussed and presented. Microstructural characterization and its effects on the resulting properties are expected. Thus, researchers are invited to propose original investigations involving a wide variety of distinctive metal alloys and composites.

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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.

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