

Special Issue

Structure, Properties and Applications of Metal Matrix Composites

Message from the Guest Editors

Metal matrix composites (MMCs) have become the focus of intensive scientific investigation and applied research for their application as structural and functional materials in advanced technological fields. Most important and widely studied MMC systems are aluminum-based matrix reinforced with particulates, continuous and discontinuous fibers and whiskers, copper-based matrix reinforced with wires, particulates and continuous fibers, titanium-based matrices reinforced with particulates and continuous fibers, magnesium-based matrices reinforced with particulates, whiskers, and continuous fibers, and superalloy-based matrices reinforced with wires. Current advances in the development of metal matrix nanocomposites and the emergence of new alloys provide new perspectives for advanced research and applications of MMCs. This Special Issue aims to provide a worldwide platform for publishing theoretical and experimental articles, reviews, short communications related to the development and synthesis, modeling, wettability phenomena, applications, and the mechanical and tribological characterization of emerging metal-based composites and nanocomposites.

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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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