Special Issue

Metal Composite Materials and Their Interface Behavior

Message from the Guest Editors

This Special Issue, entitled “Metal Composite Materials and Their Interface Behavior,” focuses on multiple composite materials that have attracted the attention of various industries that produce lightweight and high-performance components.
The interface behavior of composite materials is one of the key factors affecting their mechanical properties. The characterization of interface micro-mechanical properties, elemental distribution, bonding strength, and microstructure can provide guidance for investigating the deformation and failure processes of the interfaces in metal composite materials and improving their mechanical properties.
The present Special Issue aims to collect contributions on advanced metal composite materials, as well as review the state of the art on these materials.
Manuscripts will focus on the most significant and promising manufacturing technologies, machining and joining processes, modeling, simulation, material characterization, and failure mechanisms. A comprehensive overview of the most recent results and findings in the field of advanced composite materials will be provided.

Guest Editors

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Prof. Dr. Diqing Wan

Deadline for manuscript submissions

closed (25 March 2025)

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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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