

Special Issue

Innovations in Heat-Resistant Alloys and Metal Matrix Composites

Message from the Guest Editors

We are delighted to announce a new Special issue “Innovations in Heat-Resistant Alloys and Metal Matrix Composites” related to the development, design, and characterization of heat-resistant metal-based materials. In recent years, heat-resistant materials attract a lot of attention from both, researchers and engineers because of their excellent physical and mechanical properties at elevated temperatures. This Special issue aims to bring into focus the latest findings and innovative approaches in the design and characterization of heat-resistant metal-based materials. Moreover, it will support further studies in the broad field of heat-resistant alloys and metal matrix composites, and accelerate their application in various industries. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following: development of heat-resistant metal-based materials, characterization of heat-resistant materials, contemporary metallurgical processes, materials behavior at elevated temperatures. We are pleased to invite you to support this Special issue and publish your work.

Guest Editors

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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days (median values for papers published in this journal in
the first half of 2025).