Special Issue

Advances in Shape Memory Alloys: Theory, Experiment and Calculation

Message from the Guest Editors

We are excited to announce a call for research articles for a Special Issue focused on “Advances in Shape Memory Alloys: Theory, Experiment and Calculation”. Shape memory alloys, a type of intelligent material that exhibits a unique shape memory effect and superelasticity, demonstrate significant application potential in fields such as aerospace, biomedical engineering, and mechanical engineering. The present special subject is primarily focused on multidimensional research encompassing theory, experimentation, computation, and simulation of shape memory alloys. We sincerely invite scholars from home and abroad in the fields of martensitic transformation and shape memory alloys to share their latest research findings, thereby propelling shape memory alloys from fundamental research towards broader and more in-depth applications and injecting new vitality into the development of this field.

Guest Editors

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Deadline for manuscript submissions

closed (30 December 2025)

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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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