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

Prof. Dr. Xiaoyang Yi

College of Nuclear Equipment and Nuclear Engineering, Yantai University, Yantai, China

Prof. Dr. Gabriel A. Lopez

Faculty of Science and Tecnology, Applied Physics II, University of the Basque Country (UPV/EHU), Campus of Biscay, Barrio Sarriena s/n, 48940 Leioa, Spain

Deadline for manuscript submissions

30 December 2025

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/242880

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

mdpi.com/journal/metals

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/journal/metals

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.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

MDPI