Special Issue

Phase Transformations in Metallic Glass

Message from the Guest Editors

In the material world, metallic glass constitutes an attractive and unusual class of advanced materials in both fundamental studies and practical structural applications. Their amorphous structure without longrange periodicity means metallic glasses have excellent and unique properties and tunable glass states with different atomic structures and energies. The nature of glass is one of the most intriguing and unsolved issues in materials science and condensed-matter physics. It is known that phase transformations provide approaches to modulate the structures and properties of metallic glass, and they also provide valuable opportunities to gain in-depth understanding of the nature of glass. For this Special Issue, we welcome cutting-edge research focusing on phase transformations in metallic glass and their effects on the structure and properties of materials. The Special Issue aims to outline the fundamental development trends in phase transformations of metallic glass, including crystallization, liquid-to-liquid transition, glass-to-glass transition, and related engineering applications.

Guest Editors

Dr. Guannan Yang

State Key Laboratory of Precision Electronic Manufacturing Technology and Equipment, Guangdong University of Technology, Guangzhou 510006, China

Dr. Hengwei Luan

Department of Mechanical and Biomedical Engineering, City University of Hong Kong, Hong Kong, China

Deadline for manuscript submissions

closed (31 August 2023)



Metals

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 4.9



mdpi.com/si/138850

Metals 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 2.6 CiteScore 4.9



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, 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 16.5 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 2024).