Special Issue

Damping in Metals and Alloys

Message from the Guest Editor

Damping is a property of materials that is useful in a range of technological applications, from large structures, as in the case of seismic damping, through macroscopic-scale damping in daily life for noise suppression and vibration mitigation, to microscopicscale damping to, for example, improve MEMS reliability. In addition, the microscopic processes that are responsible for damping are the subject of high scientific interest. They involve many kinds of relaxation processes, and are associated, among other things, with short-distance diffusion of atoms and interface movement. The study of these microscopic mechanisms and their contribution to damping may require the development of non-conventional instrumentation or methodologies to measure the internal friction. Finally, mechanical spectroscopy for the measurement of damping, as an intrinsic property of materials, may become a tool to discover and analyze new phenomena in materials science, providing specific information that no other technique is able to offer. All these aspects of damping will be addressed in the present Special Issue, which will be focused on "Damping in Metals and Allovs".

Guest Editor

Prof. Dr. Jose M. San Juan

Department of Physics of Condensed Matter, Faculty of Science & Technology, University of the Basque Country, UPV/EHU, PO Box 644, 48080 - Bilbao, Spain

Deadline for manuscript submissions

closed (30 July 2020)



Metals

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.3



mdpi.com/si/30618

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



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

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).

