Special Issue

Advances in Microstructural Characterization of Metallic Materials

Message from the Guest Editor

The application of these advanced microstructural characterization techniques has provided new insights into the structural and chemical features that determine the properties of metallic systems. The objective of this Special Issue is to bring together a collection of articles about the latest developments in microstructural characterization techniques and their applications. The scope of the issue is intentionally broad and will cover all aspects of imaging, diffraction and spectrometry using beams of electromagnetic radiation, electrons, ions, and other particles. It will also encompass related techniques such as atom probe tomography and scanned probe microscopy. The issue will include articles describing the application of such techniques to metallic systems, ranging from conventional ferrous and non-ferrous alloys to more exotic materials, including metallic glasses, quasicrystals and high-entropy alloys.

Guest Editor

Prof. Mark Aindow

Department of Materials Science and Engineering, Institute of Materials Science, University of Connecticut, Storrs CT 06269-3136, USA

Deadline for manuscript submissions

closed (30 June 2019)

Metals

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.3

mdpi.com/si/15424

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