

Special Issue

Microstructure and Tribological Properties of High Entropy Alloy/Functional Coatings

Message from the Guest Editor

High-entropy alloy/functional coatings have been widely utilized to protect component substrate in extreme conditions such as high pressure, high temperature, and strong corrosion, etc. The mechanical and thermal physical properties of high-entropy alloy/functional coatings could be affected by the coating microstructure, which determines coating tribology characteristics and the component service life. Therefore, it is necessary to illustrate the relationship of coating microstructure to physical properties, tribological properties and experimental results. This relationship could guide the design of functional coating. This Special Issue aims to solicit research/review papers on the design and application of new high-entropy alloy/functional coatings in scientific research or industry.

Guest Editor

Dr. Jinfu Zhao

School of Mechanical Engineering, Shandong University, Jinan 250061, China

Deadline for manuscript submissions

closed (15 June 2024)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/188322

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](https://mdpi.com/journal/metals)



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, CAPus / 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).