

Special Issue

Surface Modification of Metallic Materials for Wear and Fatigue

Message from the Guest Editors

The wear and fatigue performance of components in a system determine the service life and reliability of the system. Surface modification of the components is an innovative approach to improve the wear and fatigue performance. The change of wear and fatigue mechanism and performance by surface modification is very interesting and beneficial for academy and industry. This Special Issue on Surface Modification of Metallic Materials for Wear and Fatigue could help engineers and scientists to share their recent research and development and to find new ideas for future challenges. Friction and rolling contact fatigue/wear are also within the scope of this Issue. Articles investigating the phenomena associated with the surface modification of additively manufactured components are especially welcome.

Guest Editors

Prof. Dr. Young-Sik Pyun

Department of Fusion Science and Technology, Sun Moon University,
Asan 336708, Republic of Korea

Prof. Dr. Do-Sik Shim

Department of Ocean Advanced Materials Convergence Eng., Korea
Maritime and Ocean University (College of Engineering II, Room 505)
727 Taejong-ro, Yeongdo-Gu, Busan 49112, Republic of Korea

Deadline for manuscript submissions

closed (31 May 2022)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/65097

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 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).