



Surface Strengthening and Modification of Metallic Materials

Guest Editors:

Prof. Dr. Young-Sik Pyun

Prof. Dr. Do-Sik Shim

Prof. Dr. Chang Ye

Dr. Auezhan Amanov

Prof. Dr. Yongxiang Hu

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

This Special Issue is focused on highlighting the most recent contributions in the field of materials science and engineering and surface strengthening and modification of metallic materials from a broad range of applications, from aerospace to nuclear engineering. The main applications are related to materials and process performance involved in engineering applications and the post-processing and treatment procedures. This Special Issue will focus on the improvement of the behavior and performance of metallic materials through surface modification and peening technologies. We welcome the submission of various papers related to surface strengthening and modification of materials and their improved properties, from experimental approaches and modeling/simulation to advanced insights into materials and surface post-treatment procedures.

In addition, this Special Issue welcomes interesting research papers from the 8th ICLPRP.

For this Special Issue of *Metals*, it is our pleasure to invite you to submit papers and review articles.

We look forward to your valuable contributions.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with **article processing charges (APC)** paid by authors or their institutions.

High Visibility: indexed within **Scopus**, **SCIE (Web of Science)**, **Inspec**, **CAPLUS / SciFinder**, and **other databases**.

Journal Rank: JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q1 (*Metals and Alloys*)

Contact Us

Metals Editorial Office
MDPI, St. Alban-Anlage 26
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/metals
metals@mdpi.com
[X@Metals_MDPI](https://twitter.com/X@Metals_MDPI)