

Special Issue

Metallurgy, Surface Engineering and Corrosion of Metals and Alloys

Message from the Guest Editor

It is my pleasure to invite you to contribute a manuscript to this Special Issue dedicated to advancing our knowledge in the fields of metallurgy, surface engineering, and corrosion of metals and alloys. Full research papers, short communications, and reviews are all welcome. The Special Issue covers a wide range of topics, including corrosion fundamentals (electrochemistry, structure–process–corrosion relationship), metallurgical analysis of corrosion (metallurgy of corrosion-resistant alloys, corrosion-related failure), effect of novel manufacturing process to corrosion (additive manufacturing), corrosion and environment (aqueous corrosion, molten-metal corrosion/oxidation, high-temperature corrosion/oxidation), corrosion evaluation, testing and monitoring (including the use of AI, drones), coating and surface engineering (polymeric coating, cladding, paint, galvanizing), corrosion prevention and control (materials selection, corrosion inhibitors, cathodic protection), corrosion of advanced metals and alloys (superalloys, high-entropy alloys, biomaterials).

Guest Editor

Dr. Hendra Hermawan

Department of Mining, Metallurgical and Materials Engineering, Laval University, Quebec City, QC G1V 0A6, Canada

Deadline for manuscript submissions

15 June 2026



Metals

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/217141

Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.7 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).