



Corrosion of Metals: Behaviors and Mechanisms

Guest Editors:

Dr. Chao Liu

Institute of Advanced Materials & Technology, University of Science and Technology Beijing, Beijing 100083, China

Dr. Zhongyu Cui

School of Materials Science and Engineering, Ocean University of China, Qingdao 266100, China

Dr. Tianliang Zhao

Collaborative Innovation Center for Advanced Steels, Wuhan University of Science and Technology, Wuhan 430081, China

Message from the Guest Editors

Dear Colleagues,

Steel is an indispensable raw material in our human society, and corrosion is an inherent defect of steel materials that cannot be avoided. Therefore, achieving higher corrosion resistance of steel is an important research direction for scientists. This Special Issue will focus on key findings on the corrosion behavior and mechanism of metallic materials. In this Special Issue, we welcome research on the corrosion behavior and mechanism of metallic materials (such as steel), as well as research on material corrosion resistance regulation techniques and advanced corrosion characterization techniques.

Deadline for manuscript submissions:

30 November 2024





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)