



## Electrochemical Corrosion Behavior and Corrosion Protection of Metallic Materials

Guest Editor:

**Dr. Guixiang Wang**

Key Laboratory of Superlight  
Materials & Surface Technology,  
Ministry of Education, Harbin  
Engineering University, Harbin  
150001, China

Deadline for manuscript  
submissions:

**closed (31 August 2024)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue, entitled “Electrochemical Corrosion Behavior and Corrosion Protection of Metallic Materials,” will focus on delving into the intricate realm of electrochemical processes governing the corrosion behavior of metals, aiming to explore the fundamental mechanisms, characteristics, and factors influencing the electrochemical corrosion of metals. Additionally, it will explore strategies and advancements in corrosion protection technologies to mitigate and prevent such detrimental processes. The contributions within this Special Issue will offer valuable insights, ranging from in-depth analyses of corrosion mechanisms to innovative approaches for safeguarding metals against electrochemical degradation. This Special Issue will serve as a comprehensive resource for researchers, scientists, and practitioners engaged in the study and application of corrosion science and protection methodologies for various metallic materials.





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 and Metallurgical Engineering*) / CiteScore - Q1 (Metals and Alloys)

## Contact Us

---

Metals Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/metals](http://mdpi.com/journal/metals)  
[metals@mdpi.com](mailto:metals@mdpi.com)  
[X@Metals\\_MDPI](https://twitter.com/Metals_MDPI)