



Electrochemical Corrosion and Protection of Alloys and Steels

Guest Editor:

Prof. Dr. Susai Rajendran

1. Corrosion Research Centre St.
Antony's College of Arts and
Sciences for Women,
Thamaraipadi, Dindigul-624 005,
India
2. Centre for Nanoscience and
Technology, Pondicherry
University, Puducherry 605 014,
India

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Alloys and steel undergo corrosion in various environments. This corrosion can be controlled by various methods, such as the use of corrosion inhibitors, painting, cathodic protection, etc. Articles are invited on topics including (but not limited to) the following:

- Basic aspects of corrosion; Theories of corrosion;
- Corrosion control in concrete technology;
- Corrosion inhibitors for cooling water systems;
- Corrosion resistance of mild steel in simulated concrete pore solution;
- Corrosion resistance of mild steel in simulated oil-well water;
- Corrosion resistance of gold 18 K in the presence of artificial sweat;
- Corrosion resistance of gold 22 K in the presence of artificial sweat;
- Corrosion resistance of gold 18 K in the presence of artificial saliva;
- Corrosion resistance of gold 20 K in the presence of artificial saliva;
- Corrosion resistance of 316 L alloy in the presence of artificial saliva;
- Corrosion resistance of 18/8 alloy in the presence of artificial saliva;
- Corrosion resistance of mild steel in the presence of green inhibitors;
- Corrosion problems in aircraft parts;
- Titanic corrosion; Stress brittle corrosion.





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

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