

Special Issue

Electrochemical Corrosion and Protection of Alloys and Steels

Message from the Guest Editor

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; Silver bridge corrosion.

Guest Editor

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Deadline for manuscript submissions

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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

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the first half of 2025).