# Special Issue

## Predicting and Preventing Corrosion of Metals in Different Environments

### Message from the Guest Editors

Corrosion is a dangerous and extremely costly problem.By degrading and destroying materials, almost all infrastructure and complex industrial systems are greatly impacted in terms of reliability, safety, durability, and sustainability, causing serious economic losses and environmental damage, and even threatening the public safety of society.

This Special Issue aims to report the latest progress in the field of metal corrosion prediction and control, including corrosion mechanisms, corrosion prediction models, corrosion evolution law, corrosion monitoring and detection methods, and corrosion control techniques and methods. Progress in all aspects related to the corrosion behavior of metal materials in the atmosphere, soil, seawater, industrial environment, nuclear facilities and their post-treatment environment, cathodic protection, corrosion inhibitors, advanced coatings, computational corrosion science, artificial intelligence and machine learning progress in corrosion research, etc. is welcome.

### Guest Editors

Prof. Dr. Junhua Dong

Prof. Dr. Fahe Cao

Prof. Dr. Guozhe Meng

Prof. Dr. Zhiyong Liu

### Deadline for manuscript submissions

closed (31 December 2022)

**Metals**

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**CiteScore 5.3**

mdpi.com/si/85802

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# About the Journal

## 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.

## Editors-in-Chief

Prof. Dr. Hugo F. Lopez
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**Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

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