

## Special Issue

# Advances in Corrosion and Failure Analysis of Metallic Materials

### Message from the Guest Editors

Corrosion of metallic materials is an important research field involving materials, environment, and engineering. In order to solve the problem of corrosion and the failure of engineering structures and materials, many research institutions and scientists are committed to relevant research involving corrosion mechanisms, corrosion test methods and simulation, engineering failure cause analysis, corrosion prediction and evaluation, protective measures, and material design. These research results can provide practical guidance to engineers and scientists to help them solve practical problems. In this Special Issue, we welcome articles that focus on corrosion mechanisms and failure analyses of materials used in the field of aerospace, marine, energy, and chemical industries, etc. Methods to solve corrosion problems are also welcome. The main purpose of this Special Issue is to promote the academic research and technological innovation of corrosion and protection disciplines. At the same time, it can also provide a reference and guidance for engineering practice.

### Guest Editors

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### Deadline for manuscript submissions

20 January 2026



## Metals

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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.

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### Editors-in-Chief

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