

## 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.

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### Guest Editors

Prof. Dr. Yunfei Jia

School of Mechanical and Power Engineering, East China University of Science and Technology, Shanghai 200237, China

Prof. Dr. Yuhui Huang

School of Mechanical and Power Engineering, East China University of Science and Technology, Shanghai 200237, China

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### Deadline for manuscript submissions

closed (20 January 2026)



## Metals

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*Metals*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[metals@mdpi.com](mailto:metals@mdpi.com)

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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.

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### Editor-in-Chief

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

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#### Rapid Publication:

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