

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

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Metals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

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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