# **Special Issue**

# Corrosion and Protection in Aeronautical Alloys

# Message from the Guest Editors

The aeronautical industry demands improvements of structural and functional material components based on scientific research carried out on new materials and corrosion protection methods. The intrinsic strength of alloys is not sufficient to protect structural components exposed to aggressive environments. Such improvements can be achieved by optimization of alloy design and metallurgical processes and by appropriate corrosion control strategies. This Special Issue, "Corrosion and Protection of Aeronautical Alloys", is focused on current trends in corrosion science, engineering, and technology and aims to cover recent research studies related to the performance of metals and alloys used in the aeronautical industry, addressing corrosion mechanisms, electrochemical techniques. protection methods, corrosion and failure analysis case studies, and simulation and modeling. Articles related to the broad spectrum of materials behavior used in aeronautics and corrosion protection methods are welcome. We hope that this Special Issue will provide useful information for anyone working in this exciting field.

#### **Guest Editors**

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## Deadline for manuscript submissions

closed (31 December 2022)



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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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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).

