



Feature Paper Collection of “Current Challenges in Corrosion Research”

Guest Editors:

Prof. Dr. Belén Díaz Fernández

Department of Materials Science and Engineering, University of Vigo, 36310 Vigo, Spain

Prof. Dr. Jianqiang Wang

Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, Shenyang, China

Prof. Dr. Branimir N. Grgur

Faculty of Technology and Metallurgy, University of Belgrade, Karnegijeva 4, 11020 Belgrade, Serbia

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closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

Long-lasting materials have become a priority to reduce the carbon footprint and mitigate climate change. Raw materials are increasingly scarce, and the product manufacturing costs are reaching unprecedented levels. In addition to new technologies with, in most cases, hazardous exposure conditions, the development of new design strategies, prevention methods, and monitoring procedures is required to fight against corrosion. Thus, corrosion control is essential for the goal of a sustainable society.

This Special Issue is intended to compile the most recent advances in corrosion research. Contributions from traditional fields such as transport, chemical industry or civil engineering are welcome, but innovative improvements in the areas of additive manufacturing or biomaterials are also expected.

Methods for corrosion mitigation, including environmentally friendly solutions such as high-performance coatings, cost-effective advanced materials, inhibitors, or novel solutions, as well as innovative testing procedures, including sensors or remote monitoring, to reliably assess corrosion behavior and to predict corrosion damage are encouraged.





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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

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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Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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