Special Issue

Feature Paper Collection of "Current Challenges in Corrosion Research"

Message from the Guest Editors

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.

Guest Editors

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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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