Corrosion Prediction in Different Environment

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Message from the Guest Editors

Corrosion prediction can provide valuable information for environment corrosivity classification and corrosion resistance evaluation of materials. Significant advances in this field have been achieved. However, the prediction accuracy is still not high due to the scatter of the data and the simplification of the model.

This Special Issue aims to collect the latest developments in the field, which can contribute to quantitative corrosion experiments, enrich environment and corrosion data, improve corrosion prediction accuracy, and enhance the understanding of the corrosion process. In this Special Issue, original research articles and reviews are welcome. Topics addressed may include, but are not limited to: Corrosion prediction in different environments; Corrosion test in atmospheric or marine field environments (especially long-term test or in extreme environments); Corrosion test in laboratory simulated or accelerated environment; Mechanism consistency and acceleration rate between laboratory and field environment; Corrosion monitoring or simulation; Degradation of anti-corrosion coatings; New equipment, sensors, methodology, tools, and models in corrosion.

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Special Issue

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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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