



metals



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Corrosion and Inhibition Processes

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Message from the Guest Editor

In a changing world with a high demand for renewable energy sources and lowering environmental impacts, the preservation of natural resources and minimization of metallurgical extraction processes will dramatically aid in lowering energy consumption and greenhouse gas emissions. In this regard, the conservation of industrial assets by controlling corrosion degradation and increasing their lifetime in service becomes of crucial importance for society.

In a growing global economy, the understanding of corrosion and inhibition processes, along with the search for models that correlate the service lifetime and experimental results, contributes towards the implementation of more effective corrosion management strategies, resulting in a reduction of corrosion losses.

This Special Issue on Corrosion and Inhibition Processes is focused on current trends in corrosion science, engineering, and technology and aims to cover research studies related to corrosion and inhibition mechanisms, corrosion management, mitigation strategies, corrosion case studies, and simulation and modeling.



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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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