Special Issue

Corrosion and Electrochemical Behaviors of Metals

Message from the Guest Editor

In recent years, renewed interest in the study of corrosion phenomena and the development of new materials and more resistant coatings has led to significant improvements in both fundamental knowledge and engineering applications in this field. This Special Issue covers a broad spectrum of recent scientific topics and concepts in the field of corrosion research and electrochemical behavior of metals, providing an excellent opportunity for researchers, academics, and technologists from leading universities, companies, and research centers to present their latest research at the forefront of corrosion knowledge and engineering. Original papers and critical reviews are awaited in topics such as:

- Electrochemical testing methods for the study of corrosion behavior of advanced engineering materials and coatings;
- Corrosion kinetics, passivity, and localized corrosion;
- Synthesis and characterization of new corrosion resistance materials;
- Newest results in surface coatings and surface modifications;
- Fundamental aspects of interfacial science;
- Mechanisms and methods of corrosion control.

Guest Editor

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About the Journal

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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