



Green Inhibitors for Corrosion Protection of Metals and Alloys

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Message from the Guest Editors

Dear Colleagues,

Corrosion is a serious phenomenon affecting metals and alloys. It reduces the value and effectiveness of metal and alloy products and shortens their service life. The industrial sector around the world suffers from corrosion problems resulting in the loss of several billion dollars. Conventionally, the corrosion treatment process involves the use of chemicals, which are expensive and dangerous for the environment. Recently, green corrosion inhibitors such as natural oils and plant extracts have attracted the attention of researchers in this field: green inhibitors for corrosion protection of metals and alloys.

In addition, the electrical properties of protected metals, metal oxides, and alloys under different atmospheres can be treated in this issue, in particular the influence of doping, substitution, structure, and microstructure on the electrical properties with conservation of the processed material.





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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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