Special Issue

Green Inhibitors for Corrosion Protection of Metals and Alloys

Message from the Guest Editors

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.

Guest Editors

Dr. Riadh Marzouki

1. Department of Chemistry, College of Science, King Khalid University, Abha 61231, Saudi Arabia
2. Chemistry Department, Faculty of Sciences of Sfax, University of Sfax, Sfax, Tunisia

Dr. Ismat Hassan Ali

Department of Chemistry, College of Science, King Khalid University, Abha 61231, Saudi Arabia

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

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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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Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

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Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

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