

Special Issue

Study on Surface Modification and Corrosion Prevention of Materials

Message from the Guest Editors

Corrosion is a major issue for the increase of service life and reliability of materials, including steel, light alloys, and additive manufacturing alloys employed in the practice. In this sense, this requires a high-quality material surface modification in the industry and a delicate design of internal microstructure such as protective coating, cathodic protection methods, corrosion inhibitors, alloying design and microstructural control. This Special Issue focuses on a new and detailed understanding of corrosion mechanisms and an improvement of corrosion performance with the support by new research methods, high-quality surface modification technologies, service life estimation methods with consideration of corrosion problems, corrosion simulation, electrochemical methods, high resolution microstructure characterization methods and others.

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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.

Editor-in-Chief

Prof. Dr. Yong Zhang

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