Special Issue

Metallurgy, Surface Engineering and Corrosion of Metals and Alloys

Message from the Guest Editor

It is my pleasure to invite you to contribute a manuscript to this Special Issue dedicated to advancing our knowledge in the fields of metallurgy, surface engineering, and corrosion of metals and alloys. Full research papers, short communications, and reviews are all welcome. The Special Issue covers a wide range of topics, including corrosion fundamentals (electrochemistry, structure-process-corrosion relationship), metallurgical analysis of corrosion (metallurgy of corrosion-resistant alloys, corrosion-related failure), effect of novel manufacturing process to corrosion (additive manufacturing), corrosion and environment (aqueous corrosion, molten-metal corrosion/oxydation, high-temperature corrosion/oxidation), corrosion evaluation, testing and monitoring (including the use of AI, drones), coating and surface engineering (polymeric coating, cladding, paint, galvanizing), corrosion prevention and control (materials selection, corrosion inhibitors, cathodic protection), corrosion of advanced metals and alloys (superalloys, high-entropy alloys, biomaterials).

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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