Special Issue

Surface Modification and Coatings of Metallic Materials

Message from the Guest Editors

Surface modification through chemical treatment and morphology transformation, or the deposition of the protective coating of a different material, are successful strategies to help materials resist damage and endure in harsh environments, add new biocompatible and antimicrobial functionalities, create systems for sustainable energy generation, and clean up pollutants. This Special Issue is dedicated to the latest scientific achievements in the field. Both reviews and articles are welcome. This issue welcomes contributions of any kind in the fields of manufacturing processes of coating, such as physical and chemical vapor deposition, thermal and plasma spraying, surface modification by directed energy, electro and chemical treatments, and the properties and performance of engineered surfaces, like friction, wear and corrosion resistance, thermal protection, hydrophobic and oleophobic materials, functionalization for the environment, and energy and medical applications. All approaches will be encouraged, including theoretical, experimental, and numerical ones. It is our pleasure to invite you to submit a manuscript for this Special Issue.

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Deadline for manuscript submissions

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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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