Special Issue

Surface Treatments and Coating of Metallic Materials

Message from the Guest Editor

Surface treatments and coating technologies are of extremely high interest in the metallurgical sector because they permit the functionalization of the metal surface, thus modifying the part of the metal that interacts with the environment and permitting the obtaining of particular properties that cannot be obtained with only the bulk material. The properties that can be modified with surface treatments are of a very wide range; the most common treatments are performed in order to improve the wear and corrosion properties of the metals, but treatments are also often performed in order to give some particular functionality to the metal surfaces. The purpose of this Special Issue is to publish studies that deal with the surface treatments of metallic materials. These may include, but are not limited to, the following: - Coatings deposited from the vapor phase (PVD, CVD, and PA-CVD); - Coatings deposited from the liquid phase: anodizing, plasma electrolytic oxidation, hot-dip galvanizing, etc.; - Coatings deposited from the solid phase: thermal spray coating, laser cladding, or welded coatings;

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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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