Special Issue

Plasma Treatment on Alloys' Surface

Message from the Guest Editors

Plasmas are very reactive environments containing highly energetic species that allows for reactions that would otherwise be impossible or very inefficient. Due to their operational flexibility in terms of working pressure, gas composition, electromagnetic frequency, or reactor configuration, plasmas have been used for many technological applications, including the treatment of metal alloys. Besides early applications developed during the 50s and 60s, scientific and technological advances during the subsequent decades has allowed for a more precise use of plasmas acting only on the surface of the metallic materials, including etching, cleaning, synthesis of metallic nanoparticles, thick- and thin- film deposition of coatings and general modification of both physical and chemical properties of the materials. In this Special Issue of *Metals*, devoted to the Plasma Treatment on Alloys' Surfaces researchers are invited to submit regular papers, short communications, and review articles, featuring their contributions in this field, ranging from early-stage developments to full scale-up applications, comprising the use of plasmas for processing metals and alloys.

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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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