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Surface Treatment Technology of Metals and Alloys

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Deadline for manuscript submissions:
closed (31 March 2019)

Message from the Guest Editor

In recent decades, metals and new alloys with modified surface properties have experienced steady development. The point is that modified mechanical, electrochemical, and antibacterial properties may be improved thanks to different changes introduced to the surface layer of metals and alloys. The new surface technology engineering covers modifications and improvements introduced by laser treatments, chemical and electrochemical polishing, magnetoelectropolishing, passivation, anodic oxidation, electrophoretic deposition, ion implantation, plasma electrolytic oxidation, chemical or physical vapor deposition, as well as by sol-gel processing. Nowadays, designing of materials properties is one of the top science domains, allowing for predicting the behavior of material under extreme environmental conditions. Special attention to surface quality is of importance prior to their production. This Special Issue is aimed to be focused on new achievements and directed to everyone interested in widely understood surface engineering of metals and alloys.

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Message from the Editor-in-Chief

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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Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Metals and Alloys)

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