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Surface Coating with Organic-Inorganic Hybrid Materials on Metals

Guest Editor:

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Organic–inorganic hybrid materials, incorporating both organic and inorganic constituents, on metals are considered to be a promising class for a variety of applications related to corrosion resistance, catalysts, heterogeneousness, bioactivity, and optoelectronics. These materials combine the inherent properties of inorganic components, such as physical, thermal, and chemical stabilities; organic components, such as functionalization and flexibility; and intrinsic physical and chemical properties of both components. The principal goal of this Special Issue is to put forward an organic–inorganic hybrid approach to improve the different properties of metals with respect to the variety of coating methods. As guest editors, we cordially invite you to submit a manuscript to the upcoming Special Issue on “Organic–Inorganic Hybrid Materials on Metals”. This Issue will comprise original research articles, reviews, and communications. Suggested topics include but are not limited to:

Corrosion resistance

Bio-related performance

Antibacterial

Surface coloring

Photoluminescence performance

Catalytic performance

Light-related performance

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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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