Special Issue

Design, Fabrication and Characterizations of Metallic Coatings by PVD Methods and Their Applications

Message from the Guest Editor

Metallic coatings were among the first applications of the sputtering process. This special issue intends to gather original and innovative research related to the fabrication processes of metallic coatings and their characterization, related to their potential use for a large variety of applications. The main processes to be covered are the PVD methods, including but not limited to: evaporation, either by resistive heating or electron beam; sputtering, with all the variants including magnetron, ion assistance, HiPIMS etc; arc vapor deposition; pulsed laser deposition etc. The main classes of applications that can be included are: Conductive coatings for interconnections or circuit elements Optical coatings used as: reflectors, band pass filters, thermal control films Protective and/or decorative coatings Antibacterial and/or biocompatible coatings Precision alloying with a metallic component This Special Issue will cover all aspects from the process design and optimization used a as toolsin real life or simulated conditions.

Guest Editor

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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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