Special Issue

New Challenges of Coating Deposition Processes: Microstructure Evolution and Properties

Message from the Guest Editors

Thin layers technologies, in particular those based on physicochemical processes and hybrid deposition systems, are an important part of current studies in the field of surface engineering of coatings materials. In the case of functional materials, there is a growing need for novel interlayers and coatings that assure increased hardness, wear resistance, low friction coefficient, biocompatibility, etc. New, potential technologies are related to both the selection of the chemical and phase composition of thin coatings and the design of individual stages of the synthesis process, which lead to obtaining a novel material with a specific set of functional properties. Thus, we invite you to present your valuable research focused on the possibility to obtain functional coatings with the application of different deposition systems on metallic, polymeric, or ceramic substrates in this Special Issue. In particular, the topics of interest include, but are not limited to: (i) functional coatings, (ii) hybrid coatings, (iii) plasma processes, and (iv) microstructure evolution.

Guest Editors

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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