Special Issue

Tribological and Corrosive Investigations in Advanced Nanomaterials

Message from the Guest Editor

The development of modern technologies, such as biotechnologies, electronics, and information technologies, requires the miniaturization of devices and systems while increasing their efficiency, reaction time, and longevity. In order to meet these requirements, new functional surface materials possessing good mechanical, tribological, anti-corrosion, and protective parameters, which reduce the wear of these devices, are being investigated. In particular, low-friction and high-wear-resistant materials are interesting, as every improvement in these properties ensures a beneficial effect on durability. This Special Issue focuses on multifunctional materials obtained with adequate single, multilayer, and nanocomposite coatings using chemical or physical deposition techniques. Moreover, scientific topics include the nano/micro tribological, anti-corrosion surface engineering of materials and the characterization of thin layers. Keywords: nanomaterials; thin layers; mechanical properties; nano-/microtribology; corrosive investigations; wear-resistant

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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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