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Tribological and Corrosive Investigations in Advanced Nanomaterials

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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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Message from the Editor-in-Chief

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