Special Issue

Development of Surface Engineering in Materials Science

Message from the Guest Editor

In modern materials engineering, various surface treatment techniques enable the formation of films or coatings on metals and alloys, altering their physical and chemical properties in comparison to the base material. Among the most commonly employed methods are electropolishing (EP, MEP), plasma electrolytic oxidation (PEO), also referred to as Micro Arc Oxidation (MAO), electrophoretic deposition (EPD), and ion implantation (IM). Additionally, techniques such as chemical and physical vapor deposition (CVD, PVD), anodic oxidation, carburization, nitrocarburization, passivation, laser processing, hydrothermal treatment, abrasive methods, shot peening, thermo-reactive deposition, and sol–gel coatings are widely used in surface modification. This Special Issue of *Materials* follows up on the previous Special Issue 'Development of Surface Engineering in Materials Science', which explored selected surface modification methods. Researchers in the field of surface engineering are encouraged to contribute their findings, whether based on experimental work or theoretical analysis.

Guest Editor

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Message from the Editor-in-Chief

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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