Special Issue

Metals Functionalization via Plasma Electrolytic Oxidation

Message from the Guest Editor

Due to the specific applications of many metallic materials, studies on the use of surface modification techniques are in progress. To obtain functional coatings on different metals like Ti, Ti alloys, Mg, Al, Zr, Nb, Ta, many methods could be applied, such as electrophoretic deposition (EPD), anodic oxidation, plasma electrolytic oxidation (PEO) (which is also known as micro-arc oxidation (MAO)), chemical or physical vapor deposition (CVD, PVD), or ion implantation.

Keywords

- plasma electrolytic oxidation
- micro-arc oxidation
- surface modification
- biomaterials
- corrosion resistance
- catalysis

Guest Editor

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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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