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Metals Functionalization via Plasma Electrolytic Oxidation

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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



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Message from the Editor-in-Chief

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