Special Issue

Anodizing of Metals: From Corrosion Protection to Advances in Nanotechnology and Emerging Applications

Message from the Guest Editors

Anodization of metals is well-known as a corrosion protection treatment. However, since the 1995 milestone, it has also contributed significantly to nanotechnology and nanofabrication. Today, anodization of diversity of metals allows them to contribute in such emerging applications as renewable energy harvesting, reduction of greenhouse gases, nanofabrication, sensing, optics, plasmonics, etc. Nevertheless, there is still much to explore in anodizing for corrosion protection—new technologies are developed in order to substitute Cr(VI)-based ones. The forthcoming Special Issue will focus on recent advancements in the field of anodizing metals. Topics include but are not limited to: Corrosion protection of metals by anodizing; Cr(VI) substituents; Fundamentals of anodizing; Mechanistic issues related to anodizing; Anodization of metals and alloy at new anodizing regimes; Applications of anodic oxides. All types of papers, including review papers, are welcome.

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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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