Special Issue

Fabrication and Applications of Nanostructured Anodic Oxides

Message from the Guest Editors

The anodization of metals and alloys, especially aluminum, has been widely utilized in corrosion engineering in recent decades. Today, other metals and alloys, such as titanium, zinc, zirconium, copper, iron, and cobalt, are anodized. Moreover, these nanostructured oxides contribute to the progress of such emerging applications, as renewable energy harvesting, CO2 reduction, solar cells assembly, sensing, and implant materials. The forthcoming Special Issue will focus on recent advancements in the field of nanostructured anodic oxides. Topics include, but are not limited to: Fundamentals and mechanism of anodizing; Characterization of nanostructured anodic oxides; New experimental conditions for anodizing; Anodization of new metals and alloys; Applications of anodically grown oxides; We invite our colleagues to contribute full papers, reviews, or communications to this Special Issue.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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