



Fabrication and Applications of Nanostructured Anodic Oxides

Guest Editors:

Dr. Wojciech J. Stepiński

Dr. Anna M. Brudzisz

Dr. Ewa Wierzbicka

Dr. Damian Giziński

Deadline for manuscript
submissions:

closed (31 December 2022)

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.





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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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