Special Issue

Electrodeposited Nanostructures and Their Applications

Message from the Guest Editors

Nanostructured materials ranging from thin films to one-dimensional materials are central to nanotechnology. Therefore, it is crucial to find more precise, scalable, and cost-effective fabrication methods. Electrochemical approaches have shown great potential for the discovery and development of novel nanostructured materials. A wide variety of nanostructures and related concepts and applications are emerging issues with respect to nanocrystals, nanocrystalline films, template-based nanostructures, nanocomposite films, multilayers or mesoporous films. Electrodeposited nanostructures offer great potential for various applications due to their novel properties. These include improved ductility, strength, corrosion, diffusivity, specific heat, coefficient of thermal expansion, electrical resistivity, and soft magnetic properties as well as reduced density, elastic modulus, and thermal conductivity. However, a full understanding of the fabrication parameters, stability, and physicochemical properties of these nanostructured materials is still an open issue.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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