Special Issue

Anodized Nanoporous Materials: Porous Silicon, Nanoporous Alumina, and Titania Nanotube Arrays

Message from the Guest Editor

The aim of this Special Issue will be to cover the recent advances in both the fundamental and applied research in the field of anodized nanoporous materials. Potential topics include, but are not limited to, the following:

- Development of novel anodized nanoporous materials.
- Development of nanoporous materials based optical, photonic, and electrochemical sensors.
- Development of nanoporous materials based drug delivery systems for systemic and localized delivery.
- Interaction of nanoporous materials with biological systems like cells, proteins, nucleotides, etc.
- Development of nanoporous materials based corrosion protection and anti-biofouling systems.
- Development of nanoporous membranes based molecular separation and desalination systems.

Keywords

- electrochemical anodization
- porous silicon
- nanoporous alumina
- titania nanotube arrays

Guest Editor

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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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