



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

Guest Editor:

**Dr. Tushar Kumeria**

School of Materials Science and  
Engineering, University of New  
South Wales-Sydney, Sydney,  
NSW 2052, Australia

Deadline for manuscript  
submissions:

**closed (30 June 2019)**

### 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:

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

### Keywords

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





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

Materials Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)