

Special Issue

New Horizons in Materials Engineering: The Application of Mesoporous Silica-based Materials

Message from the Guest Editor

As you know, mesoporous silica discloses a broad variety of possible applications beyond the usual employment of porous materials. It can be used, thanks to its large pore volume, surface area, and surface reactivity, as a starting framework in the design and preparation of nanostructured devices for many different purposes. This Special Issue will focus on the potential applications of mesoporous silica in which the structure of the employed material, which is most likely a hybrid material, is engineered at the nanometric scale. We wish to complete this Special Issue with original research papers dealing with applications of mesoporous materials as catalysts, adsorbents, or stationary phases in chromatography, and, last but not least, with the design of a new energy storage system that will be potentially useful for renewable energy development.

Guest Editor

Prof. Dr. Luigi Pasqua

Department of Environmental Engineering, University of Calabria, Cosenza, Italy

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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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.

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

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