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New Insight into Microporous and Mesoporous Materials

Guest Editors:

**Prof. Dr. Agustín Francisco
Pérez-Cadenas**

Department of Inorganic
Chemistry, University of Granada,
Granada, Spain

**Prof. Dr. Francisco Carrasco-
Marín**

Department of Inorganic
Chemistry, University of Granada,
Granada, Spain

Dr. Sergio Morales-Torres

Department of Inorganic
Chemistry, University of Granada,
Granada, Spain

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Message from the Guest Editors

Dear Colleagues,

Microporous and mesoporous materials are one of the most versatile materials in the world, they are used in many applications, in adsorption processes (decoloration, pollutant removal, etc.), as heterogeneous catalysts, as catalyst supports, in electrocatalysis and energy storage. They can be obtained from different raw materials, their pore volume and size distribution can be tuned with subtle modifications of synthesis conditions. Although these materials have been used for a long time, the interest in improvement is still at peak, manifesting in attempts to specially fit pore size, shape and size distribution to specific applications. On the other hand, the design of chemical surface of pores is crucial, a good combination of pore shape and size together with an adequate chemical surface is the major goal in the preparation of many advanced materials. The chemical characteristics can be modified, doping with heteroatoms or by coating, or deposition of a second material phase.

This Special Issue will deal with recent advances in microporous and mesoporous materials design, preparation, applications. Full papers, short communications, and reviews are welcome.



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Special Issue



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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.

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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