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Journal of Nanomaterials

Special Issue on
Advances in Nanoporous Materials

CALL FOR PAPERS

In the past two decades, significant developments have been made in the synthesis, characterization, functionalization, and design of nanoporous materials including theoretical modelling to explain their behavior at different length scales. Because of their high specific surface area, well-defined but tunable pore sizes, and multifunctionality, nanoporous materials have been recognized as promising candidates for several technological applications in energy storage, biofuel, sensors, membranes, bioseparation, catalysis, electronic devices, environmental pollution control, drug delivery, and so forth. This special issue focuses on the recent developments in the synthesis of nanoporous materials that include innovative novel synthetic routes to fabricate them, structural/morphological characterization, properties, and potential applications in various areas of interest.

The journal adopts the interdisciplinary broadcasting of knowledge by inspiring various approaches in a wide range of disciplines of nanotechnology. The Journal of Nanomaterials is a peer-reviewed journal with current impact factor of 1.6. The aim of this special issue is to get high quality papers from leading research groups with diverse backgrounds in nanoporous materials and their application to discuss the scientific and technological edges. Synthesis and fabrication of nanoporous materials by various methods and their application in bottom-up, top-down, or directed-assembly methods, adsorption, separation, catalysis, and nanomedicine, are the key focus of this special edition. Submissions will also include theoretical and computational aspects of nanoporous materials. Original high quality research article, review, or short commentary that are not published elsewhere or that are not currently under review by other journals are sought.

Potential topics include, but are not limited to:

- Synthetic approaches, characterization, and applications of various types of nanoporous materials
- Adsorption and diffusion in nanoporous materials
- Nanoporous materials for catalysis, sensors, energy storage, and biofuel
- Design of nanoporous composites and their applications
- Self-assembly of nanoparticles in porous structures
- Nanofiltration

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