Special Issue

Novel Pathways to Process and Harness Porous Materials

Message from the Guest Editor

This Special Issue is focused on innovative routes to the synthesis micro-, meso-, and macroporous materials, as well as pioneering and/or exotic approaches to harnessing their properties, directly (as-prepared) or indirectly (composites). Topics include, but are not limited to:

- Novel strategies to fabricate zeolites, zeotypes, micro-, meso-, and macroporous materials, or ways to improve traditional synthetic approaches;
- Innovative porous materials-based composites (inorganic, organic, hybrids), addressing pore-filling;
- Exotic porous materials (semiconductors, binary, ternary, quaternary);
- Exotic architectures for traditional compounds (high degree of ordering, orientation, periodicity);
- Addressing crystallinity in porous materials;
- New insights into the properties of porous materials;
- Use of porous materials in optical applications (non-linear optics, photonic crystals, meta-materials, surface-enhanced Raman scattering); thermoelectric applications; sensing applications; and microfluidic applications.

Guest Editor

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Deadline for manuscript submissions

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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.

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