Special Issue

Advanced Nanoporous Materials for Energy-Related Applications

Message from the Guest Editors

Nanoporous materials (NPMs) have a major role to play in the transition to clean energy and fuels. The exquisite control of their textural properties and surface chemistry endows NPMs with the flexibility and capability to be designed for various applications. Numerous NPMs such as zeolites, metal-organic frameworks (MOFs), activated carbons, mesoporous materials, carbon foams have entered the scene and produced fundamental breakthroughs in many low-carbon energy technologies such as hydrogen storage, selective carbon dioxide capture, thermal energy storage, biogas upgrading, biofuels, etc. The main purpose of this Special Issue is to provide an up-to-date outlook on the current research trends in the development of innovative NMPs for energy-related applications. Our Special Issue welcomes submissions including review articles, perspectives and original research papers addressing this broad topic.

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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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