Special Issue

Porous Materials for Energy and Environment

Message from the Guest Editors

The use of porous materials is deeply rooted in the history of humanity. Since ancient times, pumices, tuff, natural sponges, cork, and many other porous materials of different natures have been extensively used as building blocks, insulators, and absorbents. Nowadays, there are several suitable methods either to induce tunable porosity with the desired size and topology in bulk materials or to synthesize novel porous materials (like MOFs) with huge specific surfaces. These materials could potentially solve some of the most urgent technological challenges of the modern world, such as energy storage and environmental remediation. In summary, porosity can be regarded as a very interesting way to make the most out of the bulk of matter: this Special Issue will therefore focus on the many applications where porous materials, either structural or functional, have good performance, with special attention paid to the role they could play in preserving and restoring our environment. Full papers, communications, and reviews are all welcome. Papers reporting about novel characterization techniques will be also considered for publication.

Guest Editors

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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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