Special Issue

Heat and Mass Transfer in Porous Materials

Message from the Guest Editor

In this Special Issue entitled “Heat and Mass Transfer in Porous Materials”, achievements in experimental and computational studies of combined heat and mass transfer in porous media through the use of modern physical methods and models will be presented. Original documents are requested for all scientific advances in the study of physicochemical processes in porous media. We also welcome studies on heat transfer enhancement in heat exchanger mini- and micro-channels, and on the practical use of heat pipes and thermosyphons. Recent developments in the optimization of the platelet structure of materials used in various branches of technology for heat and mass transfer processes in porous spaces saturated with liquid or gas (evaporation, condensation, capillary transport, etc.) are of special interest. Articles and reviews on the study of internal mechanisms of mass and energy transfer in porous media, including predictions and efficiency assessment of porous materials used in various branches of engineering and technology, would be an asset.

Guest Editor

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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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