Special Issue

Porous Materials for Advanced Microfluidic Applications and Separations

Message from the Guest Editor

In the last few decades, porous polymer monoliths and silica monoliths have been widely used as stationary phases for application as separation, extraction and preconcentration columns in microfluidic devices. These highly porous materials offer excellent permeability allowing the use of fast flow rates at lower back pressures as compared to particulate columns packed in microfluidic channels. Recently, the range of porous monoliths embedded within microfluidic networks has been expanded to include carbon monoliths, which were used as stationary phases for sample extraction and preconcentration. New developments in the preparation, integration and characterisation of porous monolithic materials in microfluidic channels, as well as novel applications of the resulting microfluidic devices, will be discussed in this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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