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Porous Materials for Advanced Microfluidic Applications and Separations

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2022)

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.

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Message from the Editor-in-Chief

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