

Supplementary Information

Chemically Controlled Micro-Pores and Nano-Filters for Separation
Tasks in 2D and 3D Microfluidic Systems

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Supplementary informations demonstrating three videos showing the pore opening procedure for a rectangular pore (aspect ratio $rect_5$) in video S1 and the opening procedure for the cross structured pore (video S2).

In video S3 the filtering of two different sized particles is shown (21°C, 30 % ethanol % (v/v)). The first particle (blue, diameter ≈ 0.5 mm) passes the pore structure. The second particle blocks the pore due to its larger size (white particle, diameter ≈ 1 mm).