

Supporting Information:

Amino-Functionalized Ceramic Capillary

Membranes for Controlled Virus Retention

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Number of pages, figures and tables for the supporting information:

Number of pages: 3

Number of figures: 4 (Fig. S1-S4)

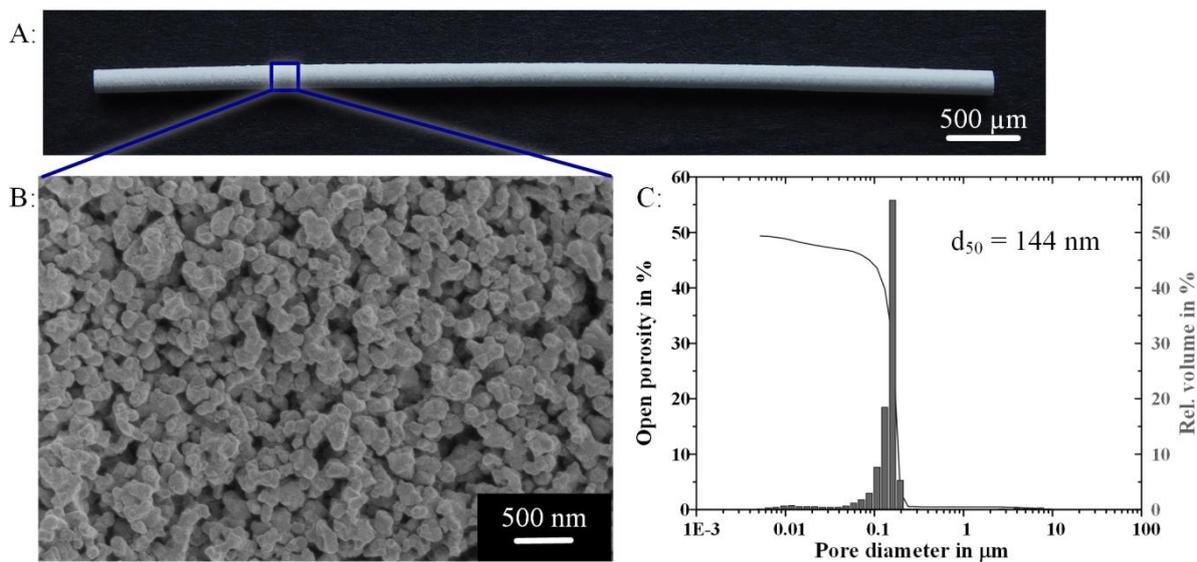


Figure S1. Non-functionalized YSZ capillary membrane. A: Photograph of a sintered (1050 °C for 2 h) capillary membrane showing a length of 6 cm, B: SEM micrograph of the microstructure (outer membrane surface), C: Pore size distribution, average pore size (d_{50}) and open porosity obtained by Hg-porosimetry.

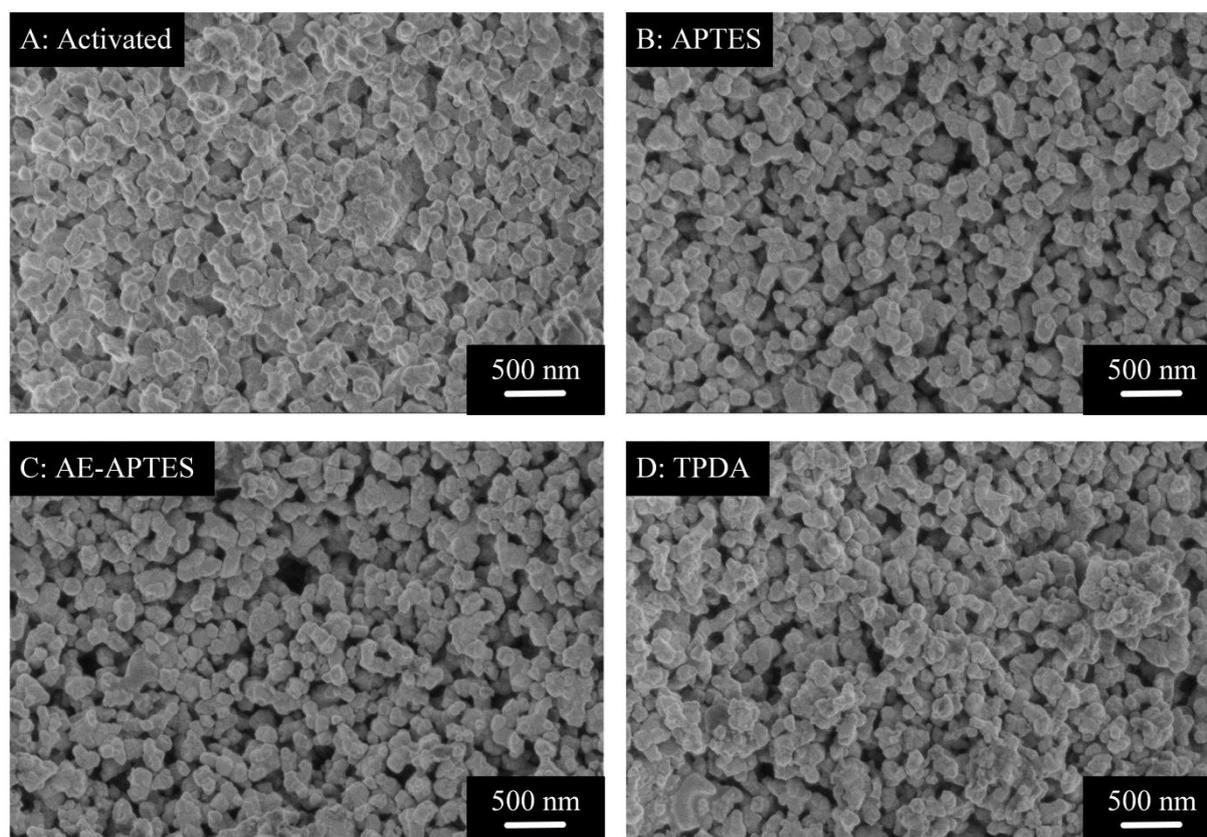


Figure S2. SEM micrographs of the outer membrane surface of the activated (A) and amino-functionalized capillaries (B = APTES, C = AE-APTES, D = TPDA).

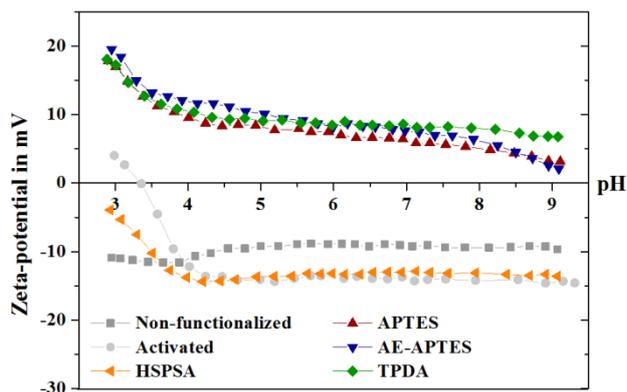


Figure S3. Zeta-potential of non-functionalized, activated, HSPSA-functionalized and aminosilanized YSZ capillaries measured in overflow mode.

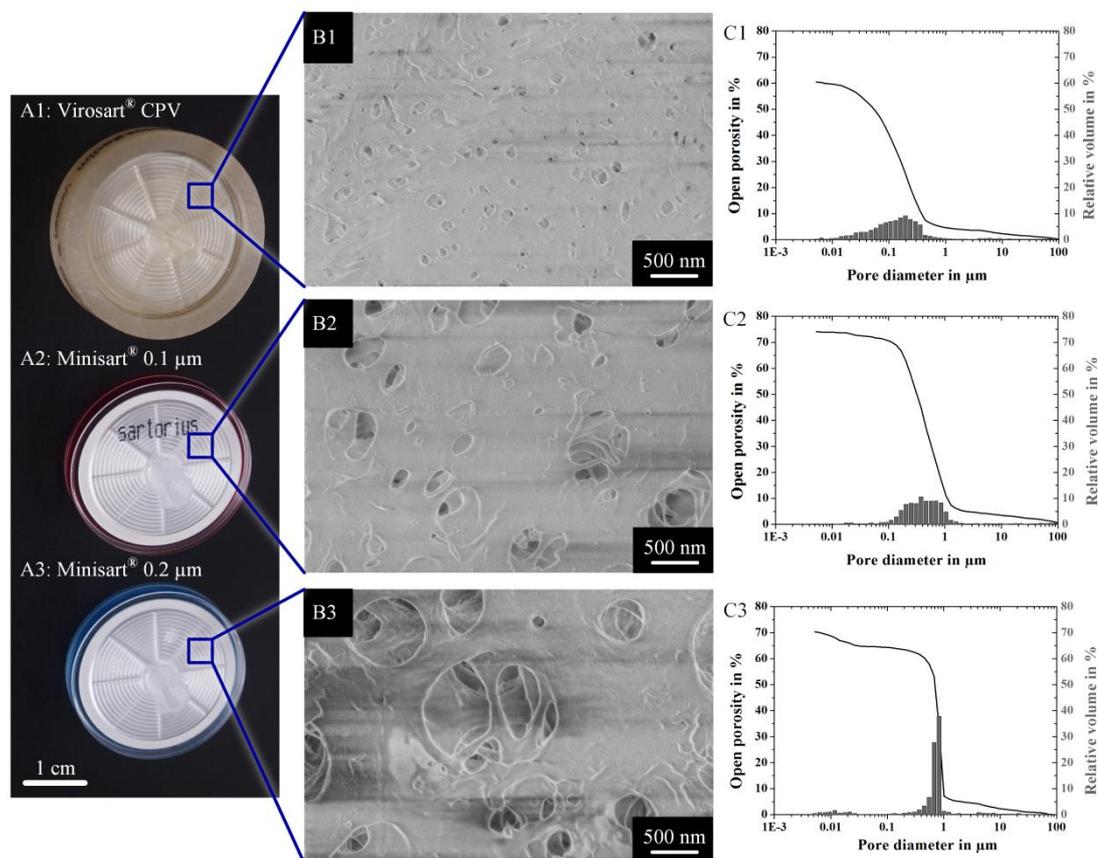


Figure S4. A: Photographs of commercial available polymeric filter devices obtained from Sartorius, Germany (Virosart[®] CPV, Minisart[®] 0.1 μm and Minisart[®] 0.2 μm), B: SEM micrographs of the membrane surface, C: Pore size distribution and open porosity of the polymeric membranes determined by Hg-porosimetry.