

Electronic Supplementary Information (ESI)

Figure S1

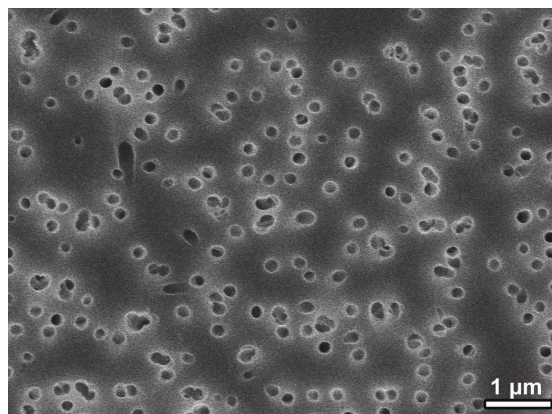


Fig. S1 SEM image of the top surface of a PC membrane filter (Advantec, K020A025A), taken by using a Hitachi S-4800 field emission scanning electron microscopy.

Figure S2

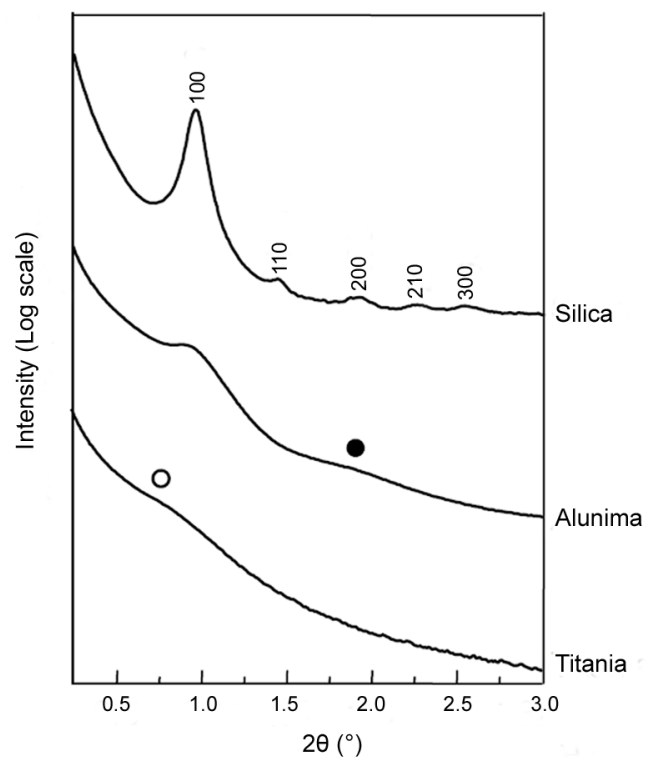


Fig. S2 SAXS patterns of mesoporous silica, alumina, and titania fibers, collected by NANO-Viewer_s (Rigaku).

Figure S3

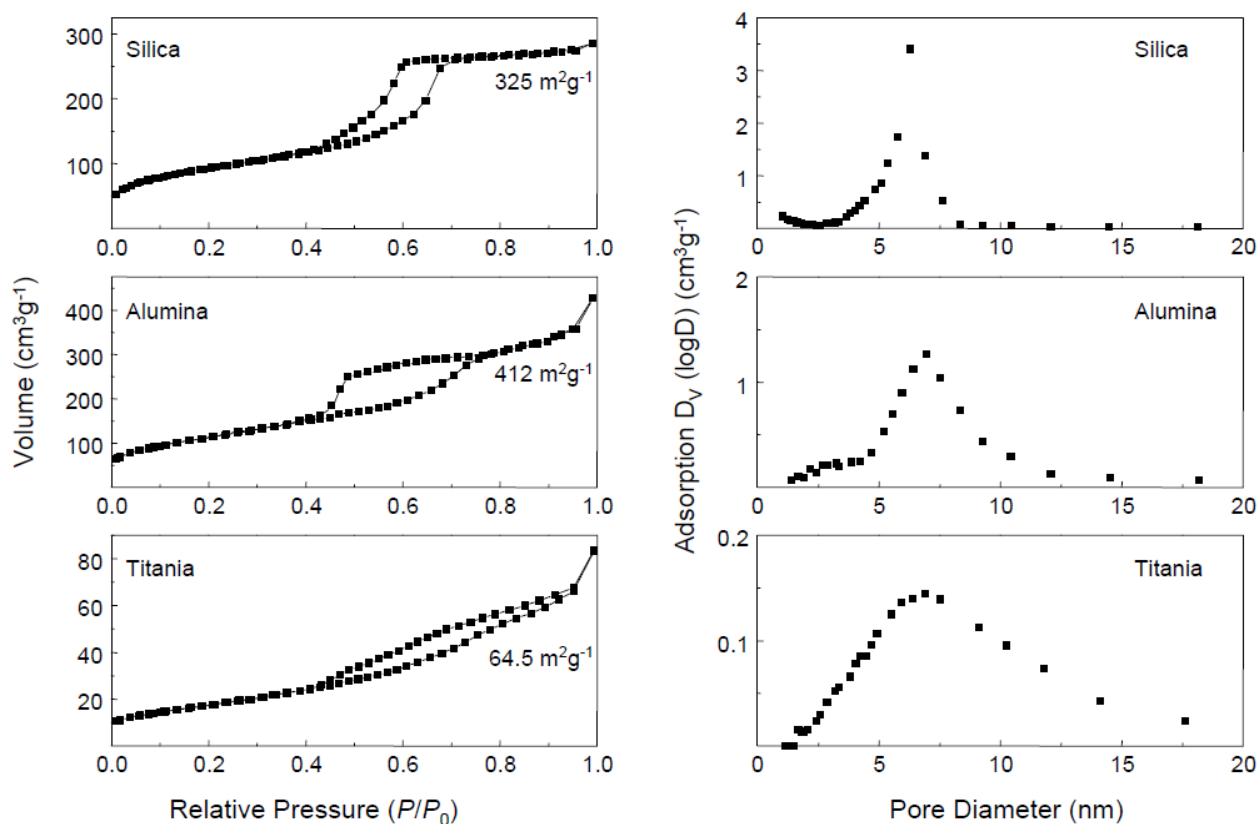


Fig. S3 Nitrogen adsorption-desorption isotherms and pore size distribution curves of mesoporous silica, alumina, and titania fibers prepared in the confined spaces of the PC membrane. The isotherms were measured by using a Quantachrome Autosorb-1. Specific surface areas and pore size distributions were calculated using adsorption branches according to the Brunauer-Emmett-Teller (BET) and the Barrett-Joyner-Halenda (BJH) methods, respectively.

Figure S4

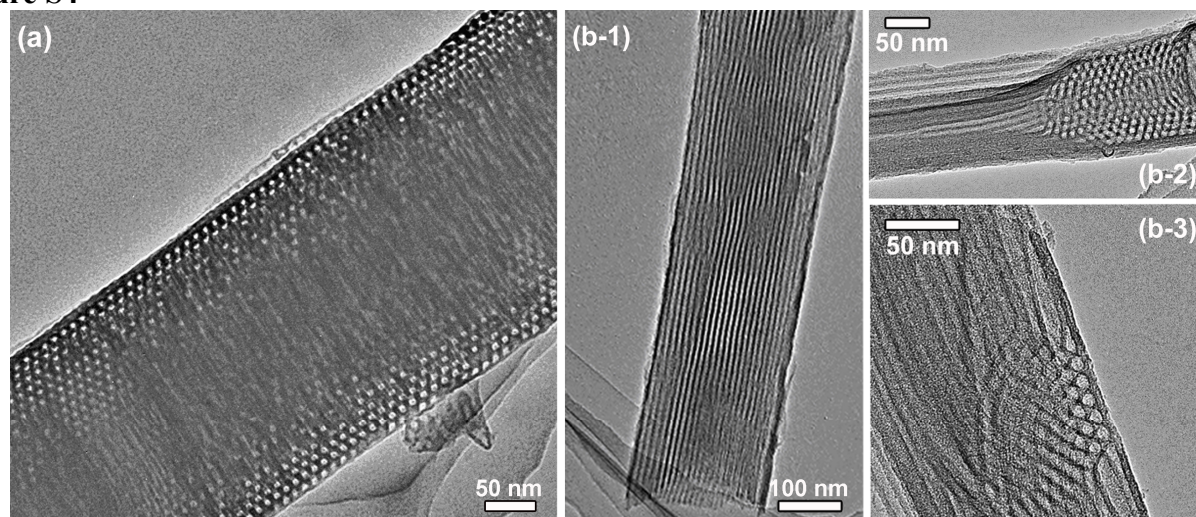


Fig. S4 TEM images of mesoporous silica fibers prepared in PAA membranes (a) without and (b) with strong aspiration.

Figure S5

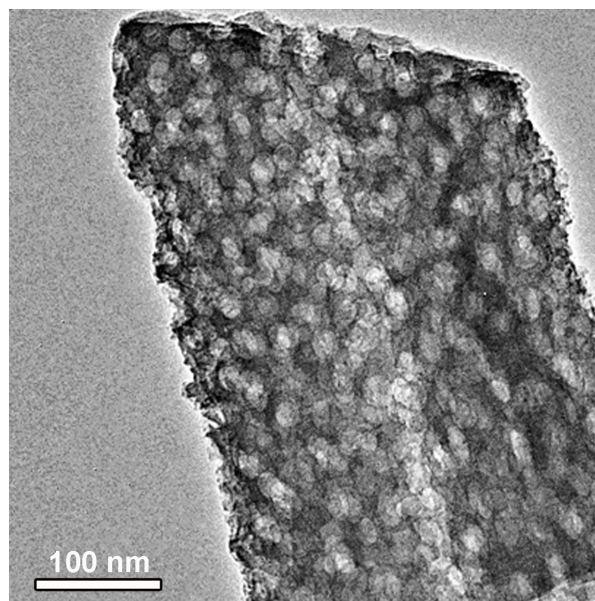


Fig. S5 TEM image of mesoporous silica fibers prepared using PS-*b*-PEO diblock copolymer in the PC channels.

Figure S6

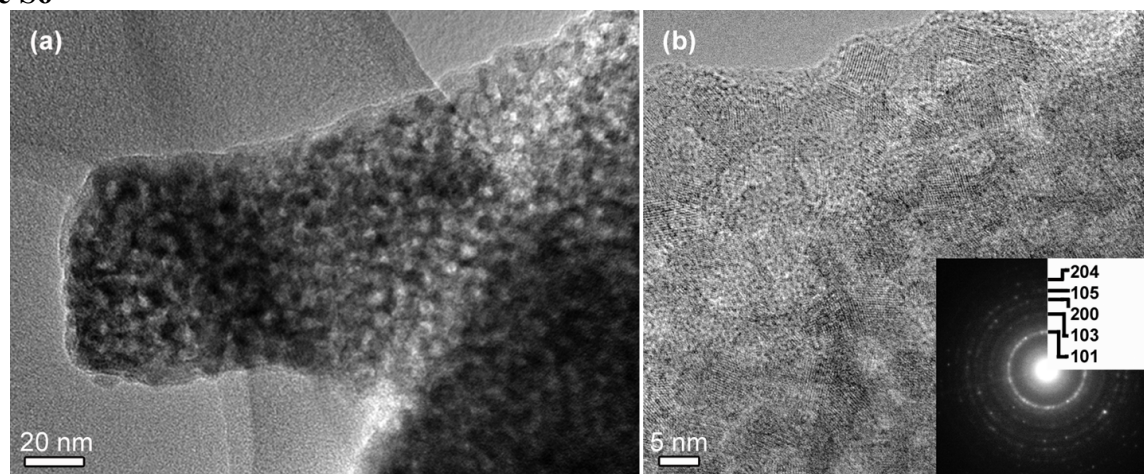


Fig. S6 TEM images of mesoporous titania fibers calcined at 400 °C with the corresponding ED pattern. The images were taken by using a JEOL-3000F (200 kV) and the samples were dispersed in ethanol by ultrasound and mounted on microgrids.