Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics
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Supporting Information

Water adsorption property controlled by coating/filling ordered mesoporous silica inside cellulose membrane

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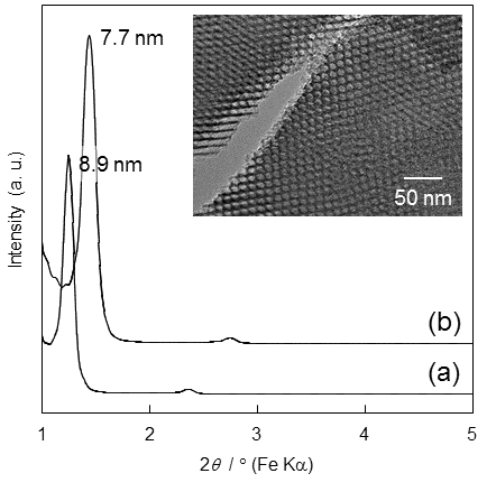

Fig. S1 XRD patterns of 2-D hexagonal mesoporous silica films prepared using P123 (a) before and (b) after heating at 250 °C under N_2, with the TEM image of the film after the heating.

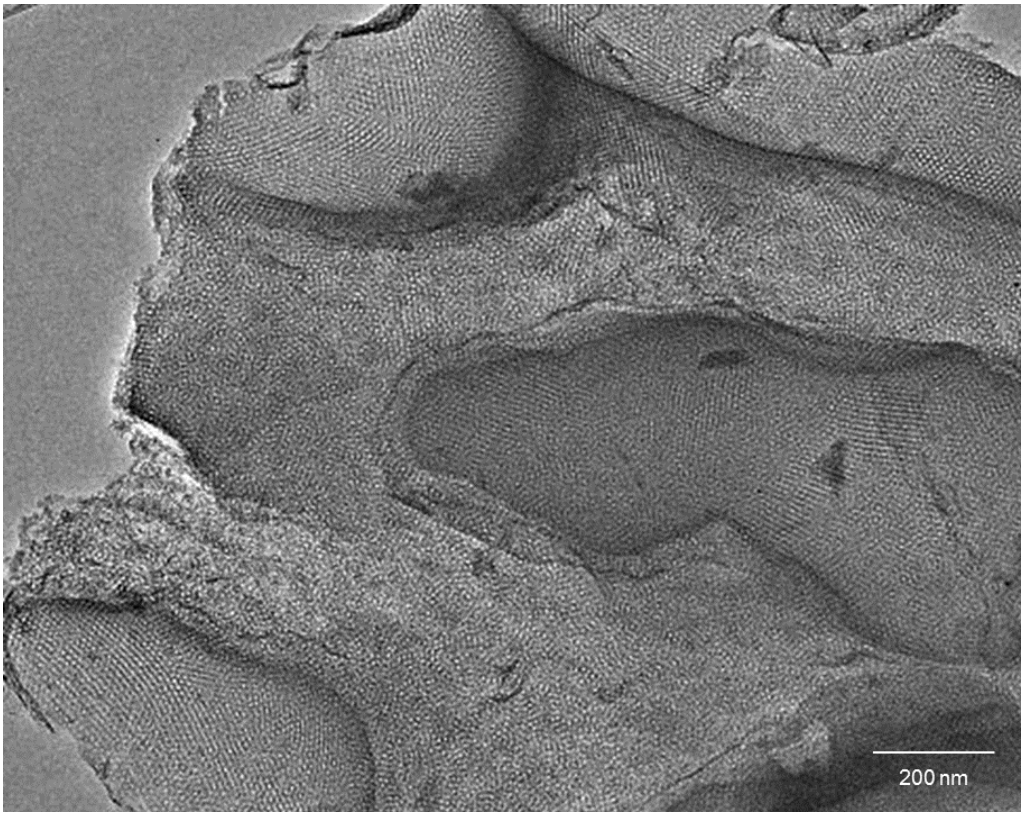

Fig. S2 Enlarged TEM image of cellulose membrane coated with 2-D hexagonal mesoporous silica prepared using Pluronic P123 after calcination at 550 °C.

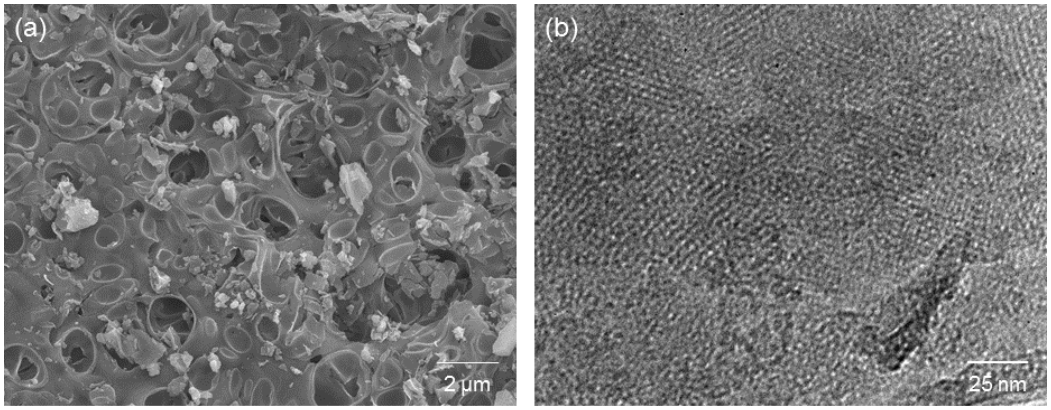

Fig S3 (a) High-magnification SEM and (b) TEM image of (a) cellulose membrane coated with 2-D hexagonal mesoporous silica prepared using $C_{16}TMACl$ after calcination at 550 °C.