

Supplementary Information

Figure S1 Experimental (solid line) and simulated (dashed line) X-ray powder diffraction profiles obtained for cubic *Fm3m* KIT-5 mesoporous silica samples measured on a laboratory equipment (a) AS-45, and (b) CA-45. The reflection positions are marked by drop lines.

Figure S2 Experimental synchrotron X-ray powder diffraction profile obtained for CA-150(48h).



