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Supplementary Information



Fig. S1: SEM image of the SBA-15 precursor



Fig. S2: SEM of bulk product



Fig. S3: X-ray diffraction pattern of the bulk product



Fig. S4: FTIR-ATR spectra of SBA-15 precursor (blue) and the mesoporous $Li_2Mn_{0.8}SiO_4$ product phase (red)



Fig. S5: TEM image of the cycled mesoporous cathode showing the retention of the mesoporous structure after cycling.



Fig. S6: SAED pattern of the mesoporous product after cycling as shown in Fig. S5