

Supplementary Information

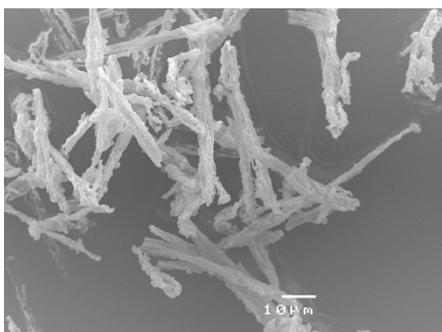


Fig. S1: SEM image of the SBA-15 precursor

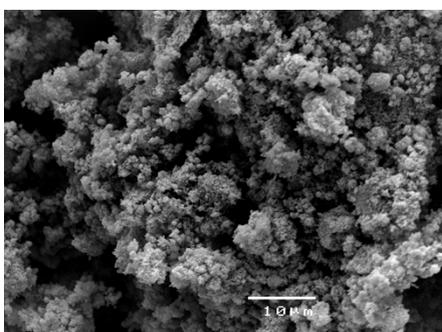


Fig. S2: SEM of bulk product

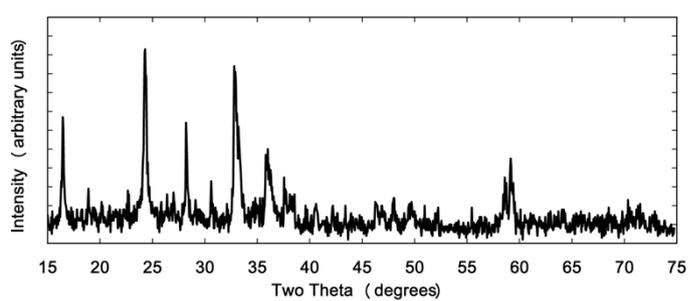


Fig. S3 : X-ray diffraction pattern of the bulk product

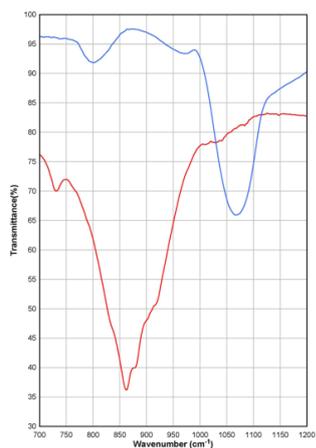


Fig. S4: FTIR-ATR spectra of SBA-15 precursor (blue) and the mesoporous $\text{Li}_2\text{Mn}_{0.8}\text{SiO}_4$ product phase (red)

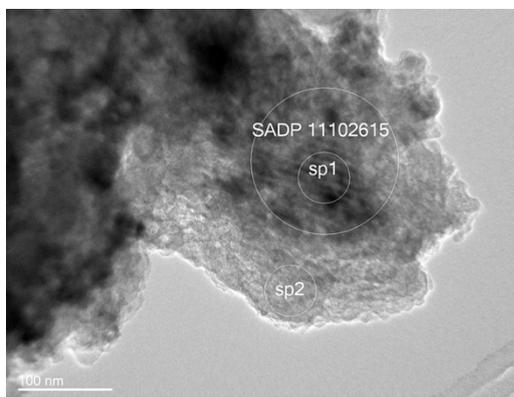


Fig. S5: TEM image of the cycled mesoporous cathode showing the retention of the mesoporous structure after cycling.

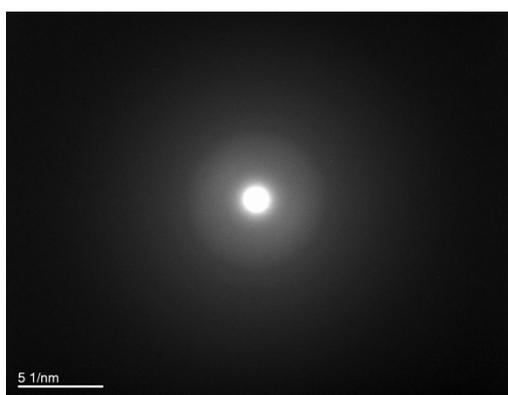


Fig. S6: SAED pattern of the mesoporous product after cycling as shown in Fig. S5