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## Supplementary data

**Fig.S1.** SEM images of SD700 electrode (a, c) and SD700 electrode after 60 cycles (b, d).

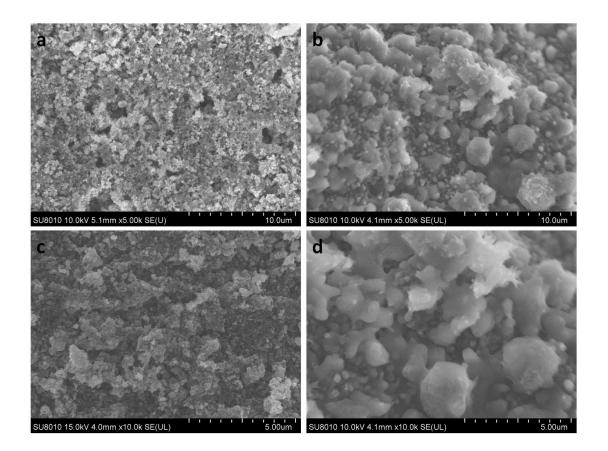
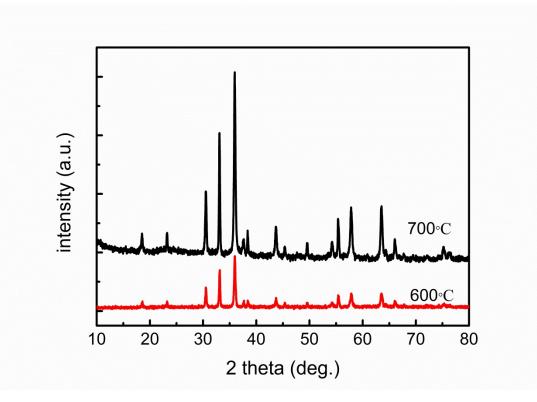


Fig. S2. XRD patterns of sample synthesized at different temperature.



**Fig. S3.** Cycling performance of the sample obtained at 600 °C in the voltage range of 0.01-3.0 V vs.  $Li/Li^+$  at current densities of 100 mA g<sup>-1</sup>.

