

Supporting information

Binary Reaction Ingrained High Current Density and Long Cycle Life Novel Anode Material for Lithium Ion Battery Application

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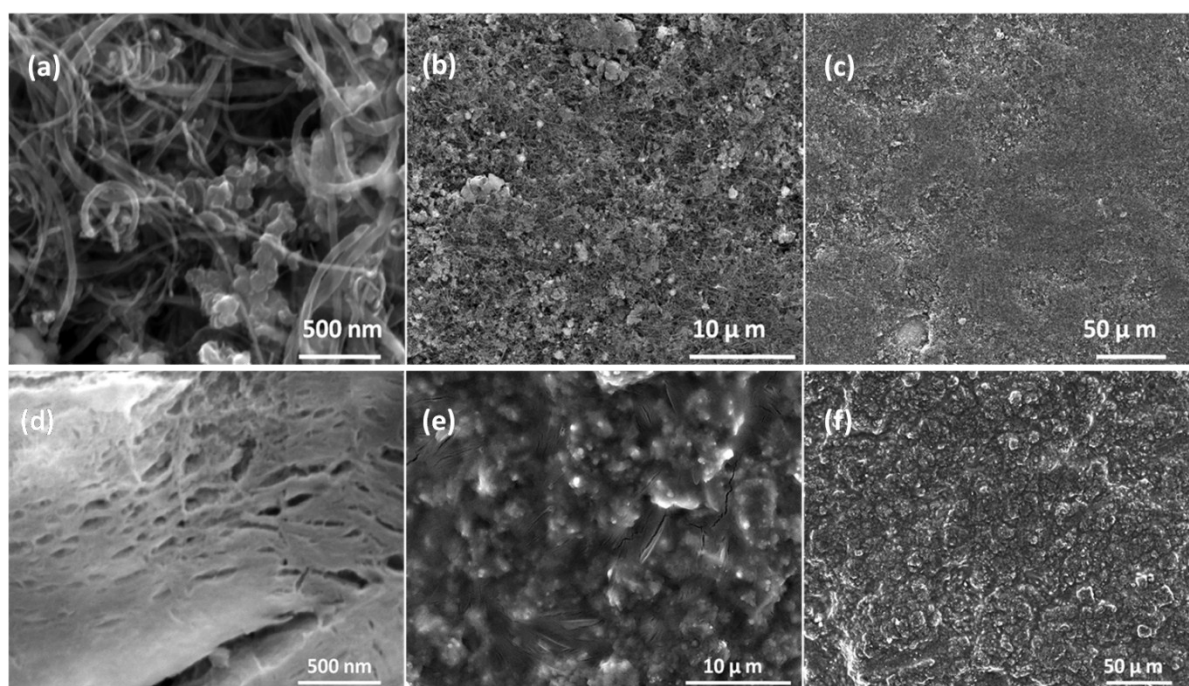


Figure. (S1) SEM image of the electrode S@PCNT before cycling (a, b, & c) and after cycling (d, e, & f).

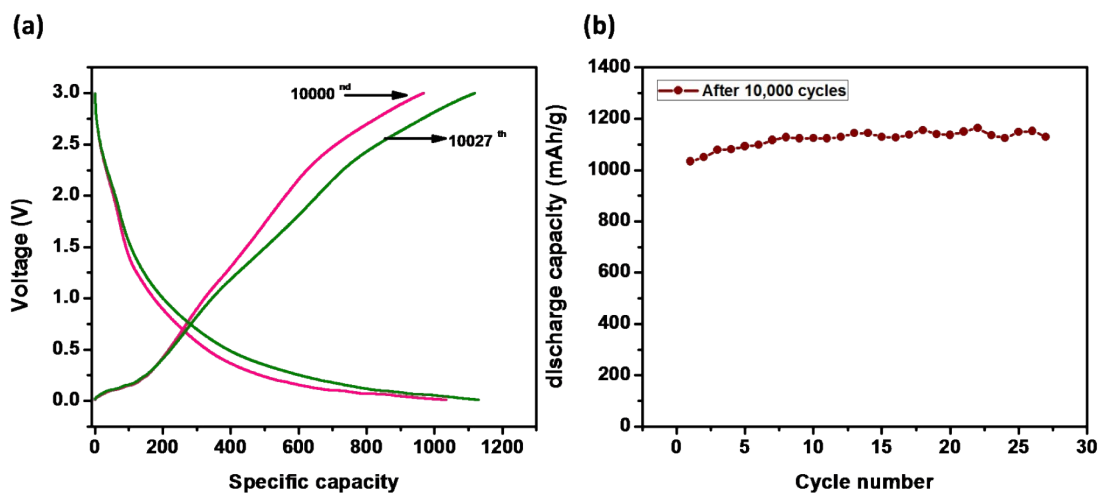


Figure. (S2) Galvanostatic cycling in the potential window 0.01 to 3 V at 150 mA g^{-1} after 10,000 cycles (a) charge-discharge profile (b) Cycle stability.

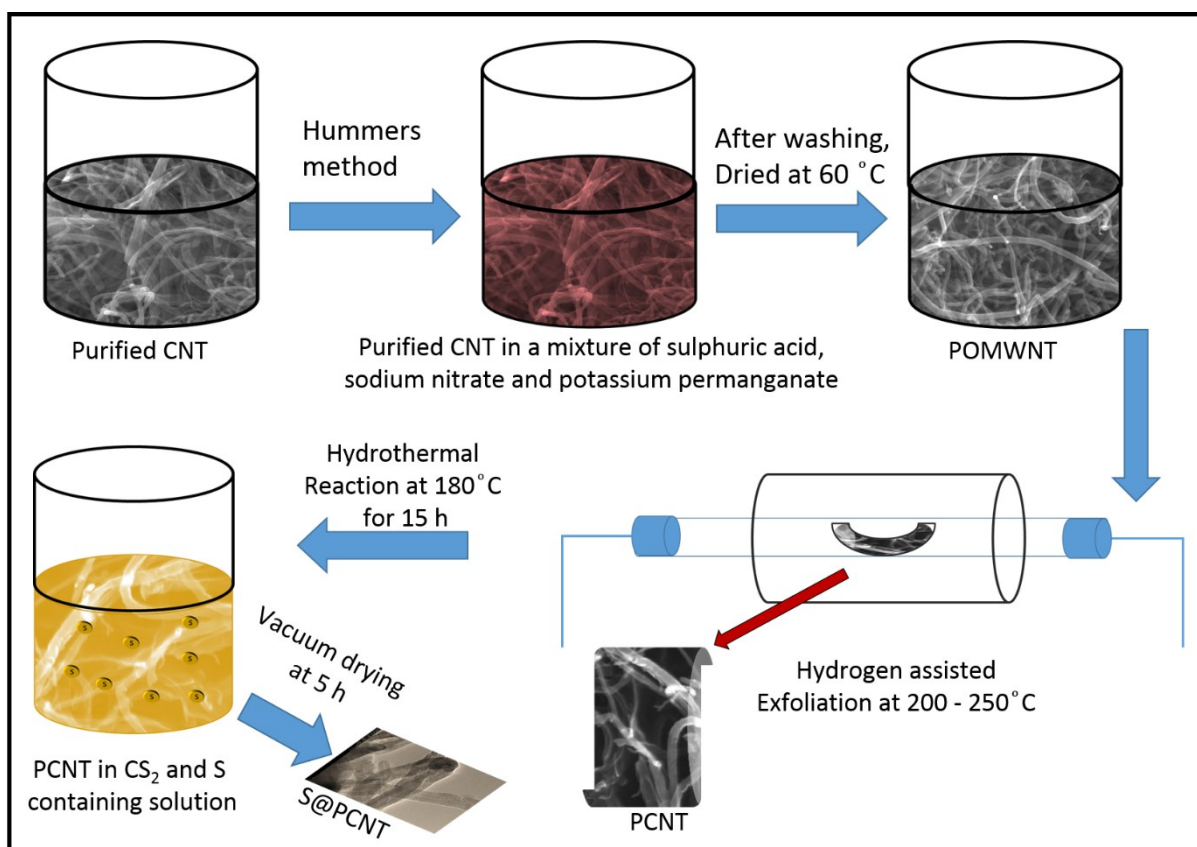


Figure. (S3) Schematic of synthesis of S@PCNT.