The Self-assembly Porous Microspheres of Tin Dioxide Octahedral Nanoparticles for High Performance Lithium Ion Batteries Anode Materials

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Supporting information:

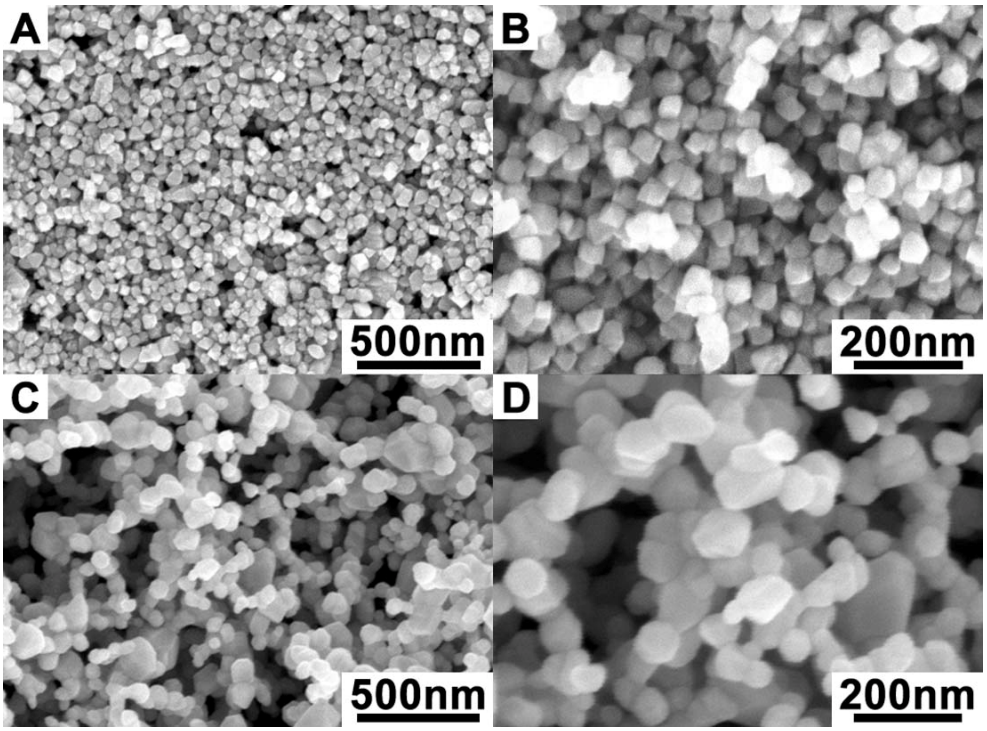

Figure S1. SEM images of SnO_2 octahedral nanoparticles (A, B) and irregular SnO_2 nanopaticles (C, D) at low and high magnification.

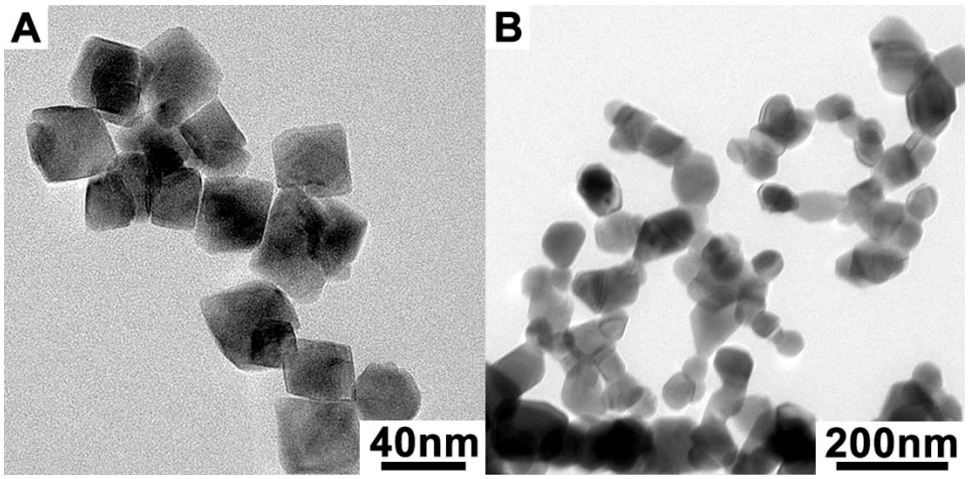

Figure S2. TEM images of SnO_2 octahedral nanoparticles (A) and irregular SnO_2 nanopaticles (B).

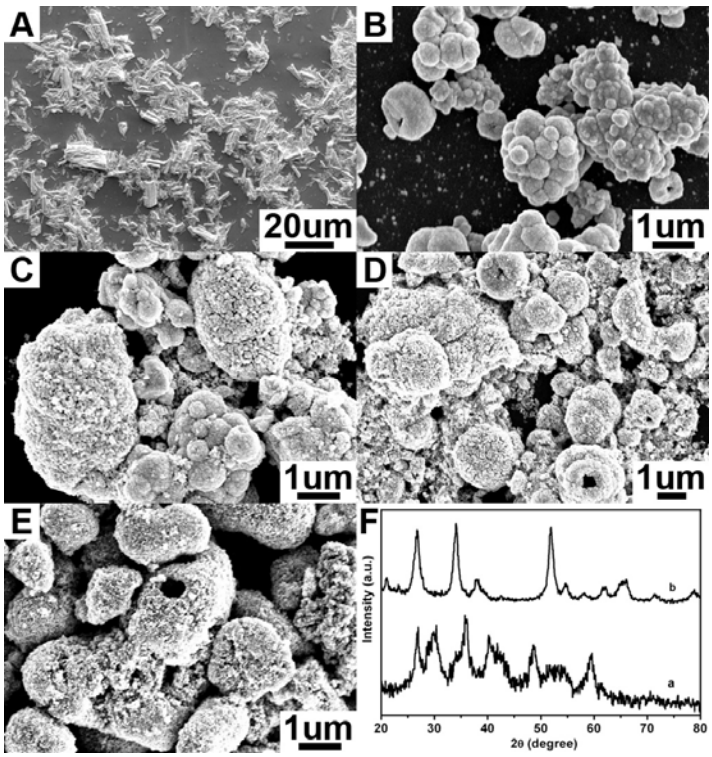

Figure S3. SEM images of the precursor (A) and SnO_2 self-assembly porous microspheres with different reaction time: (B) 3 h, (C) 6 h, (D)9 h, (E) 12 h. (F) are the XRD spectra of the precursor and SnO_2 self-assembly porous microspheres with 3 h hydrothemal reaction.

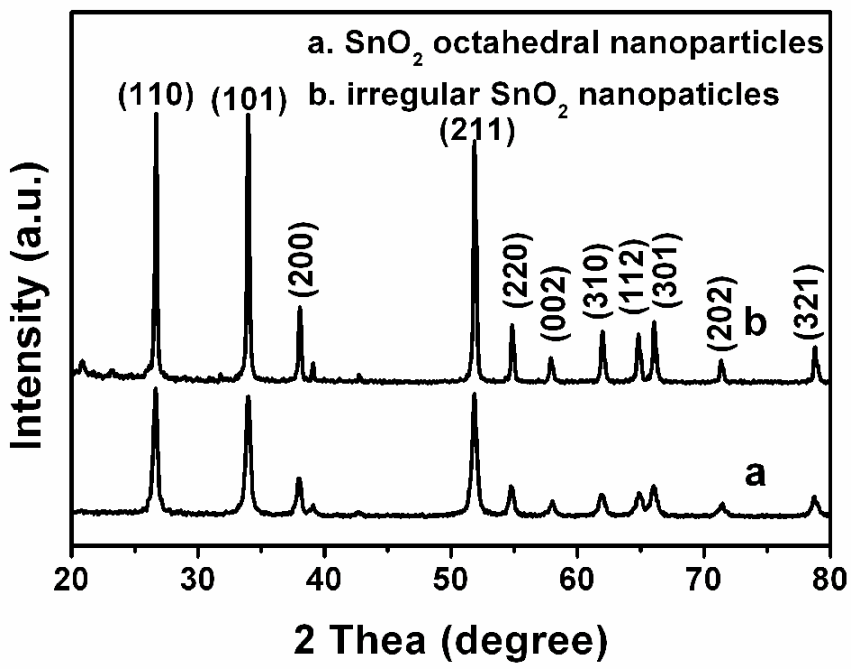

Figure S4. XRD patterns of SnO_2 octahedral nanoparticles (a) and irregular SnO_2 nanopaticles (b).

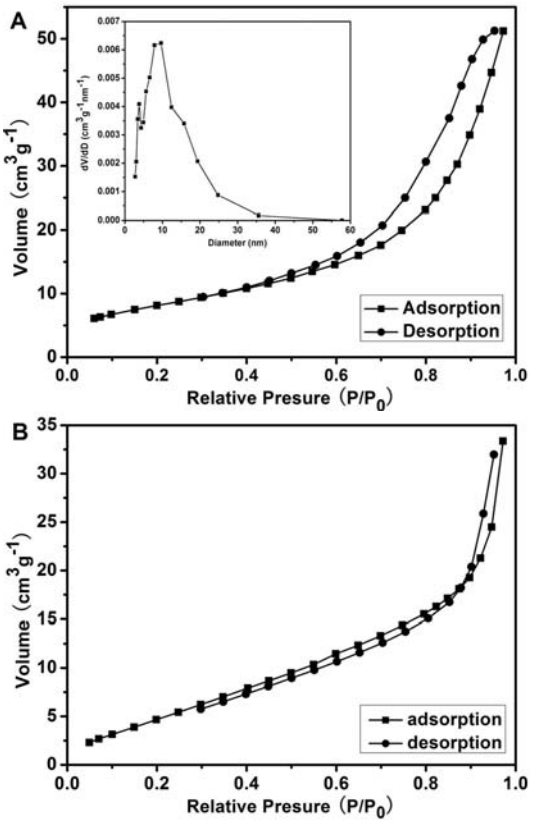

Figure S5. Adsorption-desorption isotherms of non-assembly SnO_2 octahedral nanoparticles (A) and irregular SnO_2 nanopaticles (B). In inset in (A) is the corresponding pore size distribution of non-assembly SnO_2 octahedral nanoparticles.