Supplementary Material (ESI) for Journal of Materials Chemistry

Supporting Information

Porous monodisperse V_2O_5 microspheres as cathode materials for lithium-ion batteries

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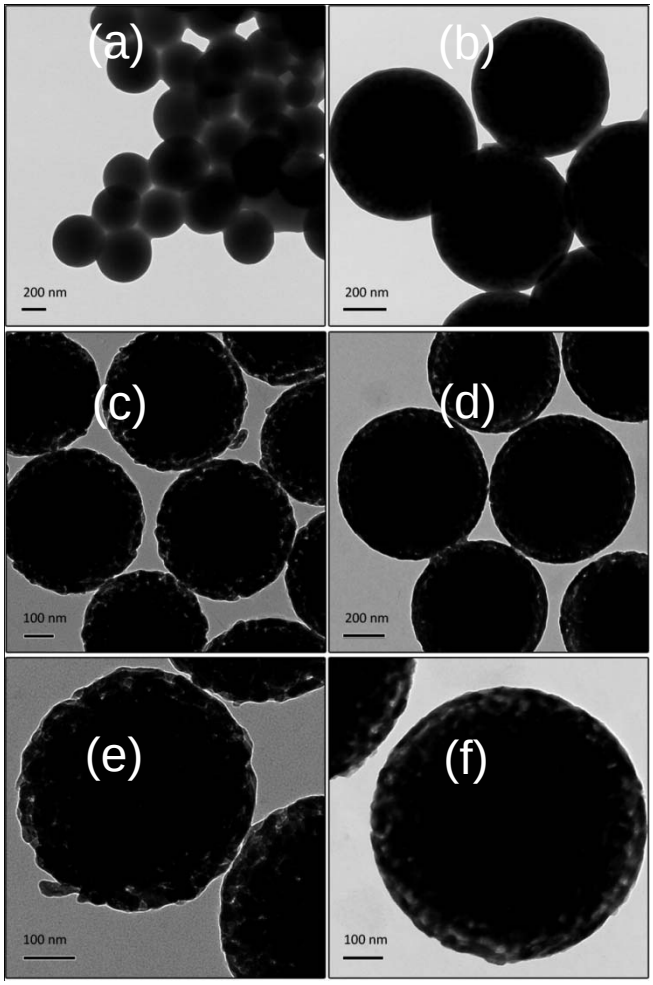

Figure S1. TEM images of VOPs precursor with size of (a) 450 nm, (b) 700 nm; (c, d) their corresponding V_2O_3 phases obtained after hydrogen treatment; and their corresponding V_2O_5 phases obtained after oxidation (e, f).

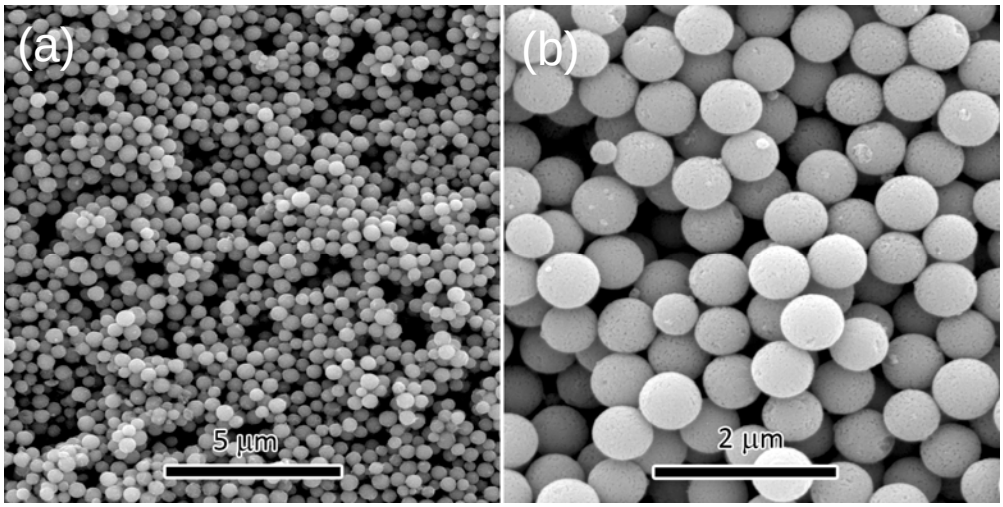

Figure S2. SEM images of the V_2O_5 porous spheres with particle size of ~450 nm (a), and ~700 nm (b).

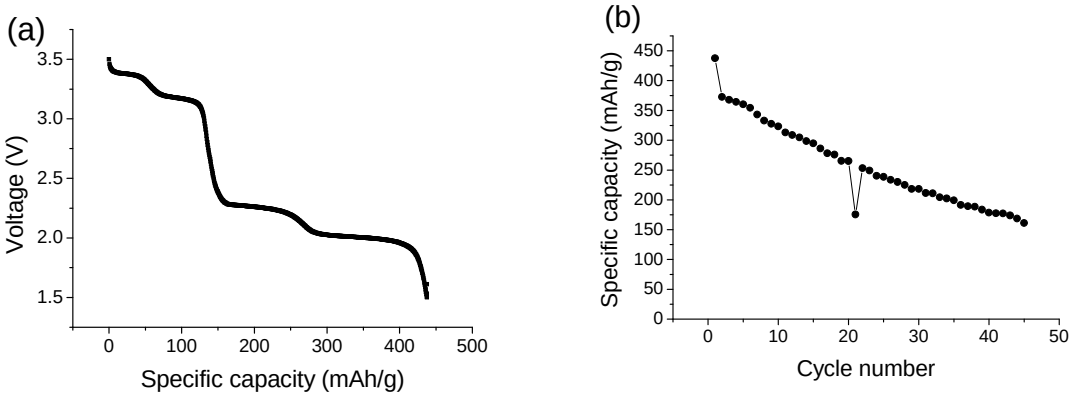

Figure S3. Galvanostatic cycling results of monodisperse porous V_2O_5 microspheres in the range of 1.5-4.0 V: (a) first discharge curve at the voltage range of 1.5-4.0 V, (b) cycling performance.

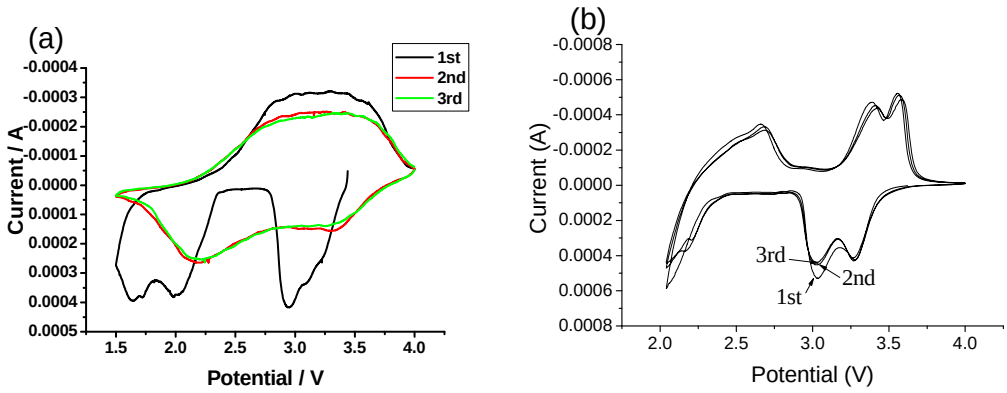

Figure S4 CV curves (first three cycles) of monodisperse porous V_2O_5 microspheres in the voltage range of 1.5-4.0 V (a), 2.05-4.0 V (b).