

Facile synthesis of porous Fe₂TiO₅ microparticulates serving as anode material with enhanced electrochemical performances

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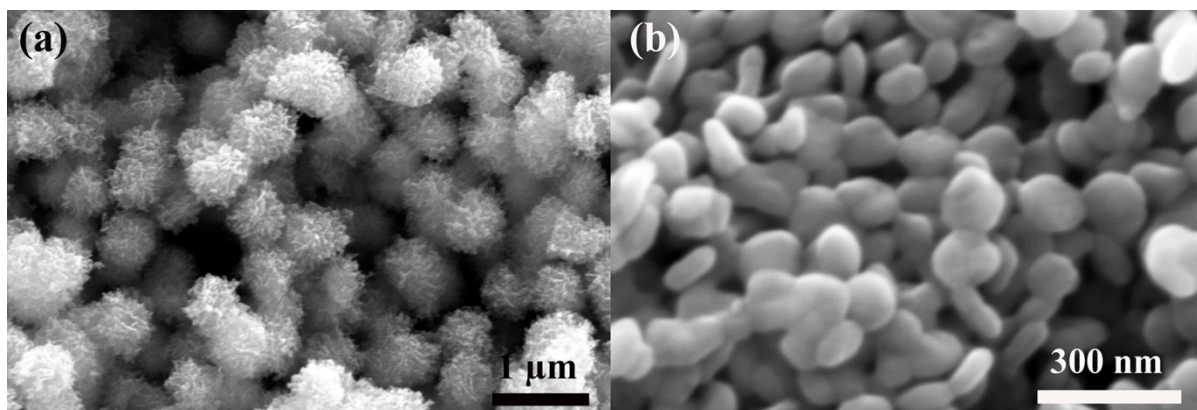


Fig. S1 SEM image of TiO₂ microspheres (a) and Fe₂O₃ nanoparticles (b).

Table S1. Rate performances of TiO₂ microspheres, Fe₂O₃ nanoparticles and porous Fe₂TiO₅ microparticulates at different current densities (mA g⁻¹).

Materials	Capacities of the 10th cycle at various densities (mA g ⁻¹)					
	100	200	400	800	1600	100 (returned)
TiO ₂	99	76	59	42	31	95
Fe ₂ O ₃	246	124	74	35	10	126
Fe ₂ TiO ₅	364	286	239	173	118	356

Table S2. R_e , R_{sf} and R_{ct} values of TiO_2 microspheres, Fe_2O_3 nanoparticles and porous Fe_2TiO_5 microparticulates after 100 cycles at a current density of 100 mA g^{-1} .

Sample	R_e (Ω)	R_{sf} (Ω)	R_{ct} (Ω)	$R_e + R_{sf} + R_{ct}$ (Ω)
TiO_2	7.91	74.67	238.92	321.5
Fe_2O_3	6.35	95.59	187.6	289.54
Fe_2TiO_5	6.95	21.46	113.49	141.9