Electronic Supplementary Material (ESI) for Nanoscale.
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Supporting Information

Figures

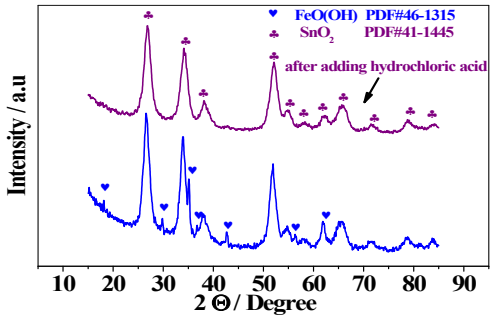

Figure S1 XRD patterns of the samples before and after corrosion by hydrochloric acid.

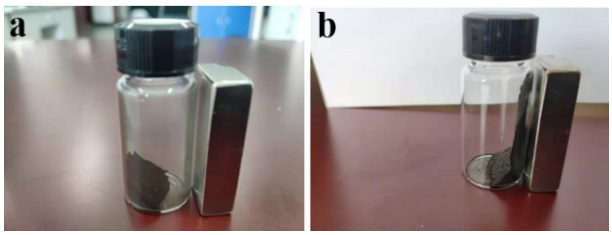

Figure S2 Optical photos of the magnetic verification experiments (a, before calcined; b, after calcined).

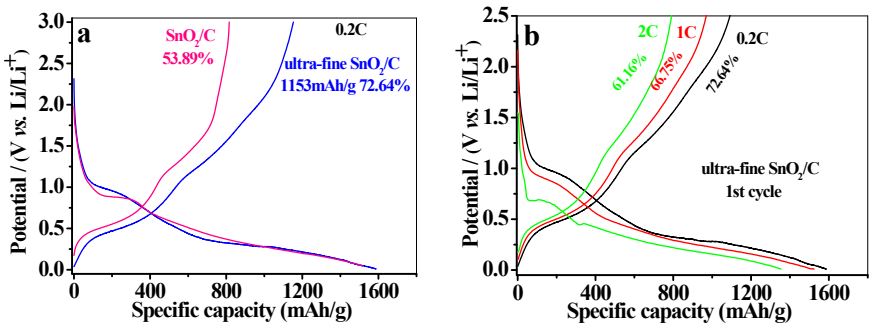

Figure S3 The first charge/discharge curves of the SnO_2/C anode at 0.2C current density(a) and the ultra-fine SnO_2/C anode at different current densities (b).

Tables

Table S1 The yield rate of the prepared samples without Fe^{3+} and with Fe^{3+}.

Samples	Fe^{3+} absent	Fe^{3+} present
Volume / ml	80	
Theoretical yield / g	2.29	
Experimental yield / g	1.75	2.18

Yield rate / %	76.4	95.2

Table S2 Impedance fitting parameters

Materials	R_s/Ω	R_{ct}/Ω	CPE-T	CPE-P	Z_w-R	Z_w-T	Z_w-P
ultra-fine SnO_2/C	4.78	26.6	0.0009	0.5522	1552	7.374	0.682
SnO_2/C	7.39	243.6	0.0003	0.5521	705.6	0.7595	0.4749