

**Preparation of Sn-aminoclay (SnAC)-templated Fe<sub>3</sub>O<sub>4</sub> nanoparticles as anode material  
for lithium-ion batteries**

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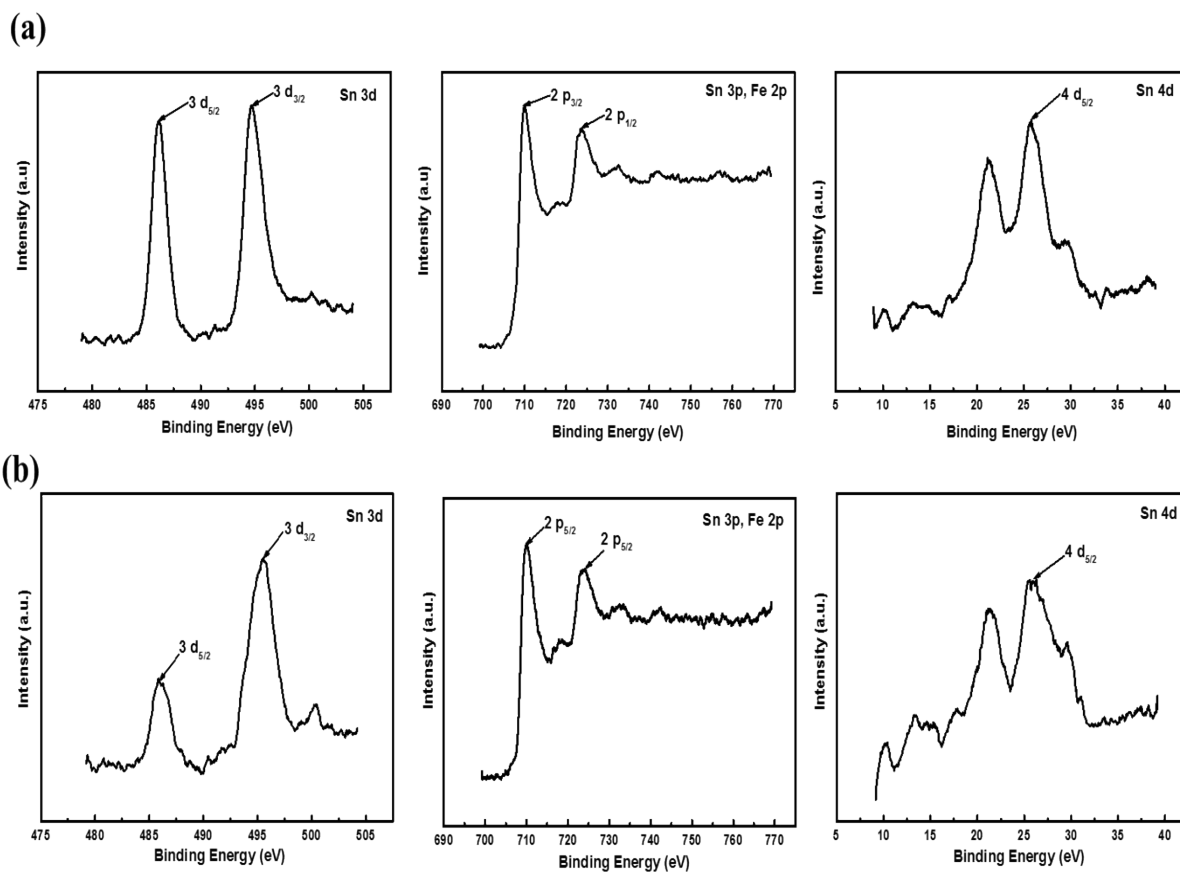
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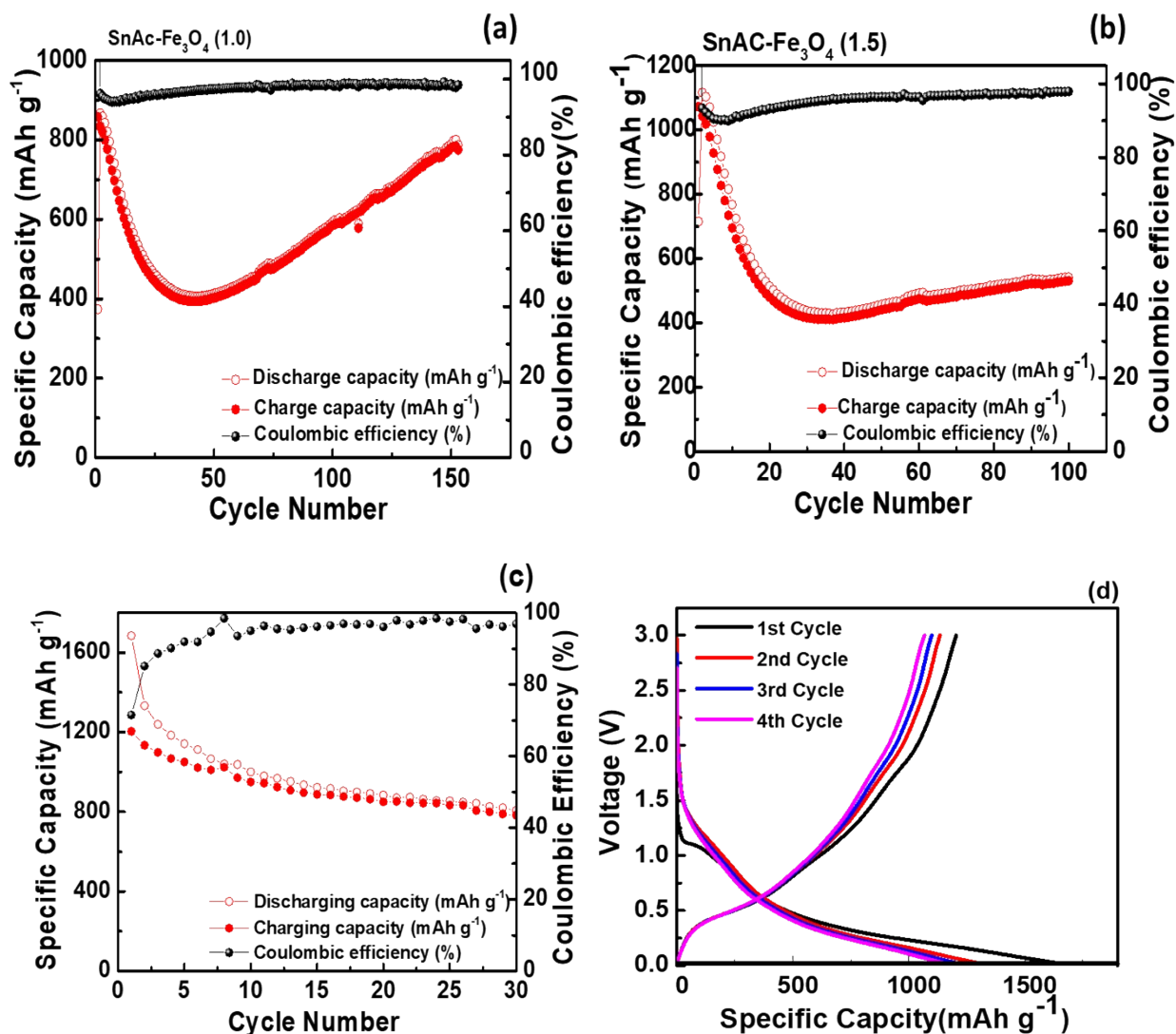
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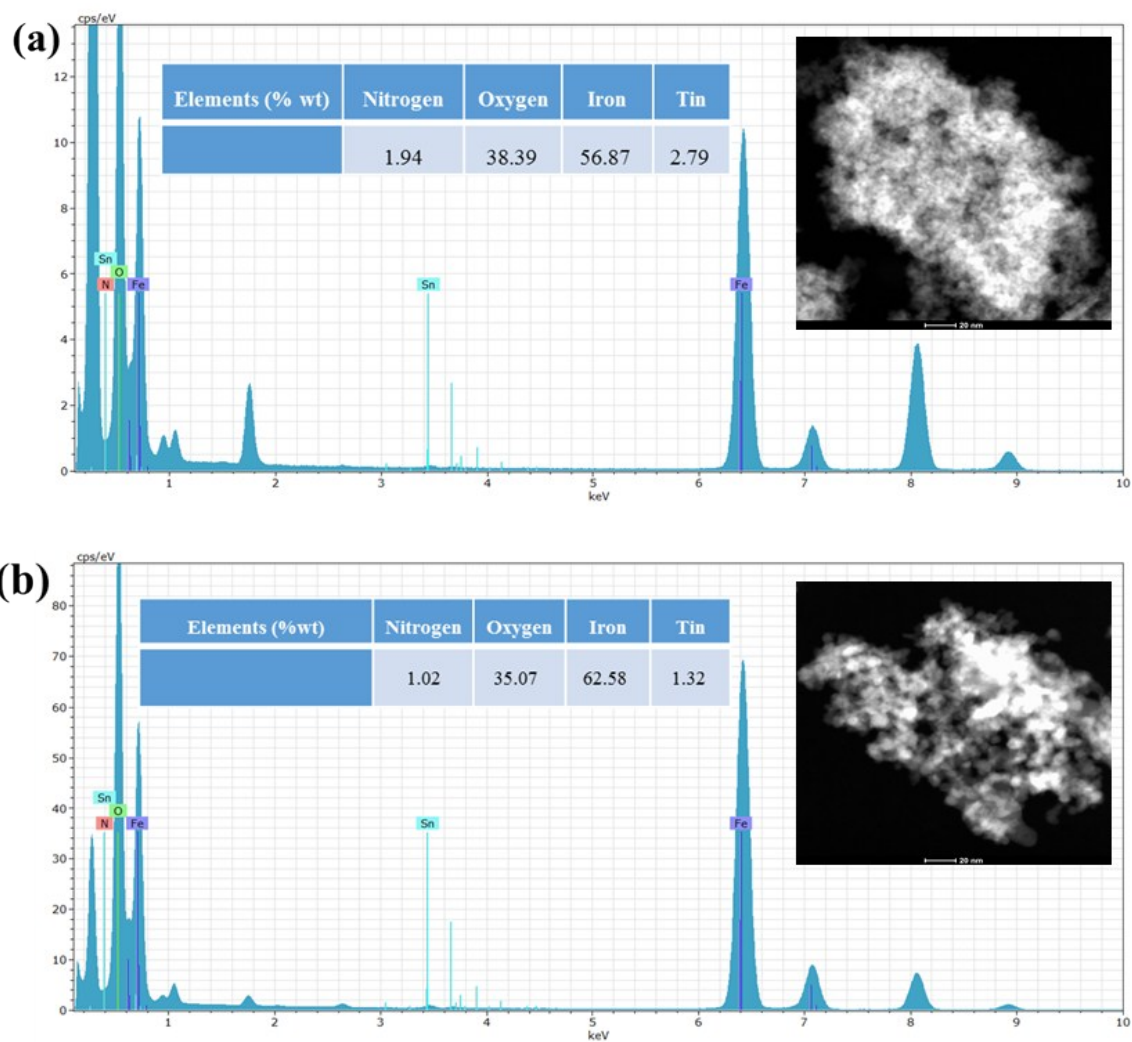
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**Fig. S1** XPS of Sn 3d, 4d, 3p species for SnAC-Fe<sub>3</sub>O<sub>4</sub> sample: a) before and (b) after annealing process under Ar gas



**Fig. S2** (a,b,c) Cycling performance of the SnAC-Fe<sub>3</sub>O<sub>4</sub> electrodes (ratios 1.0 and 1.5) and pure SnAC electrode at a current density of 100 mA g<sup>-1</sup>, (d) Voltage profiles plotted for the first, second, third, 4<sup>th</sup>, cycles of the pure SnAC electrode at a current density of 100 mA g<sup>-1</sup>.



**Fig. S3** Percentage of elements in EDX spectra for SnAC-Fe<sub>3</sub>O<sub>4</sub> nanocomposites (a) before, and after annealing process.