

Supporting information

All Inorganic Frameworks of Tin Dioxide Shell as Cathode Material for Lithium Sulfur Batteries with Improved Cycle Performance

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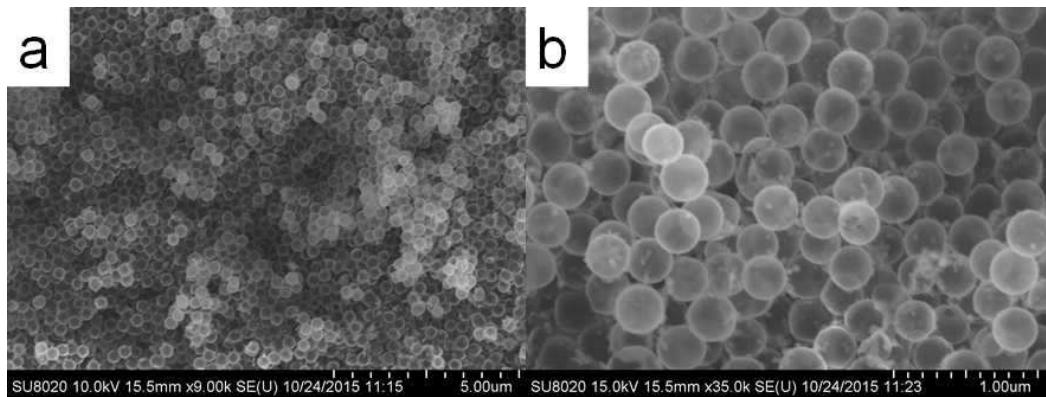


Fig S1. The FESEM images of SnO₂ hollow spheres under different magnifications (a, b).

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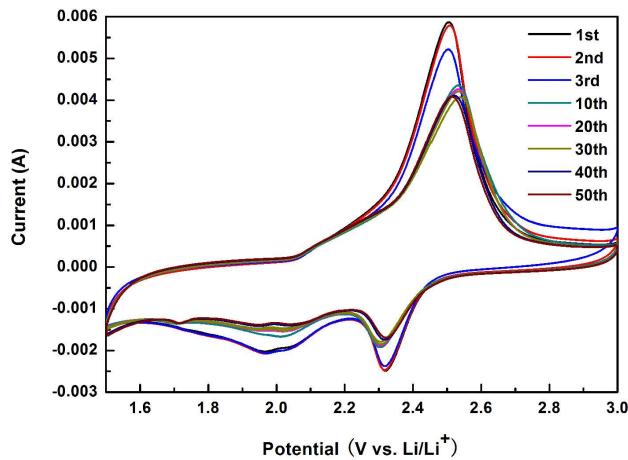


Fig S2. Typical CV curves of S/SnO₂ composites cathode at a sweep rate of 5 mV s⁻¹.

Table S1. Conductivity of sulfur, hollow tin dioxide and tin dioxide/66%-sulfur.

Sample	conductivity (S cm ⁻¹)	Reference
Sulfur	5×10^{-30}	1,2
Hollow tin dioxide	$>10^{-2}$	3
Tin dioxide/66%-sulfur	$\approx 2.94 \times 10^{-6}$ ^a	-

^a I ≈ 0.06 μA, U ≈ 80 mV, d = 0.56 mm. (Expressions: $\rho = \pi/\ln 2 \cdot V/I \cdot d$; $\sigma = 1/\rho$)

References

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