Supporting Information

One-pot Formation of SnO₂ Hollow Nanospheres and α-Fe₂O₃@SnO₂ Nanorattles with Large Void Space and Their Lithium Storage Properties

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Figure S1. Low-magnification FESEM images of SnO₂ nanospheres synthesized at 200 °C with different reaction times: A, 4 h; B, 8 h; C, 24 h.
**Figure S2.** SnO₂ hollow nanospheres synthesized at 150 °C for 4 h (A, B), 8h (C, D) and 24 h (E, F).
Figure S3. EDX spectrum of as-prepared SnO₂ hollow nanospheres after 24 h of reaction. The Si peak is from the Si wafer substrate, while the Pt peak is from Pt coating.

Figure S4. XRD patterns of as-prepared Fe₂O₃@SnO₂ nanorattles synthesized with different reaction times: I, 2 h; II, 24 h. Peaks marked with asterisks are from α-Fe₂O₃ (JCPDS card no. 33-0664).