Supplementary material (ESI) for Nanoscale

Supporting Information

One-pot Formation of SnO_2 Hollow Nanospheres and α-Fe_2O_3@SnO_2 Nanorattles with Large Void Space and Their Lithium Storage Properties

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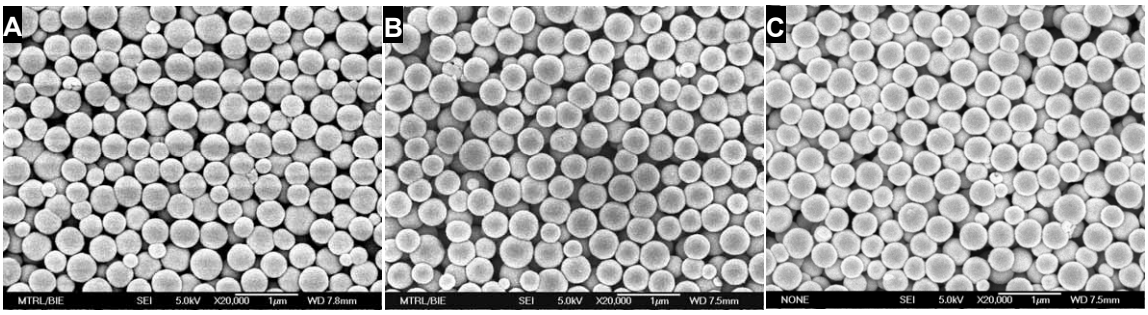

Figure S1. Low-magnification FESEM images of SnO_2 nanospheres synthesized at 200 ^oC with different reaction times: A, 4 h; B, 8 h; C, 24 h.

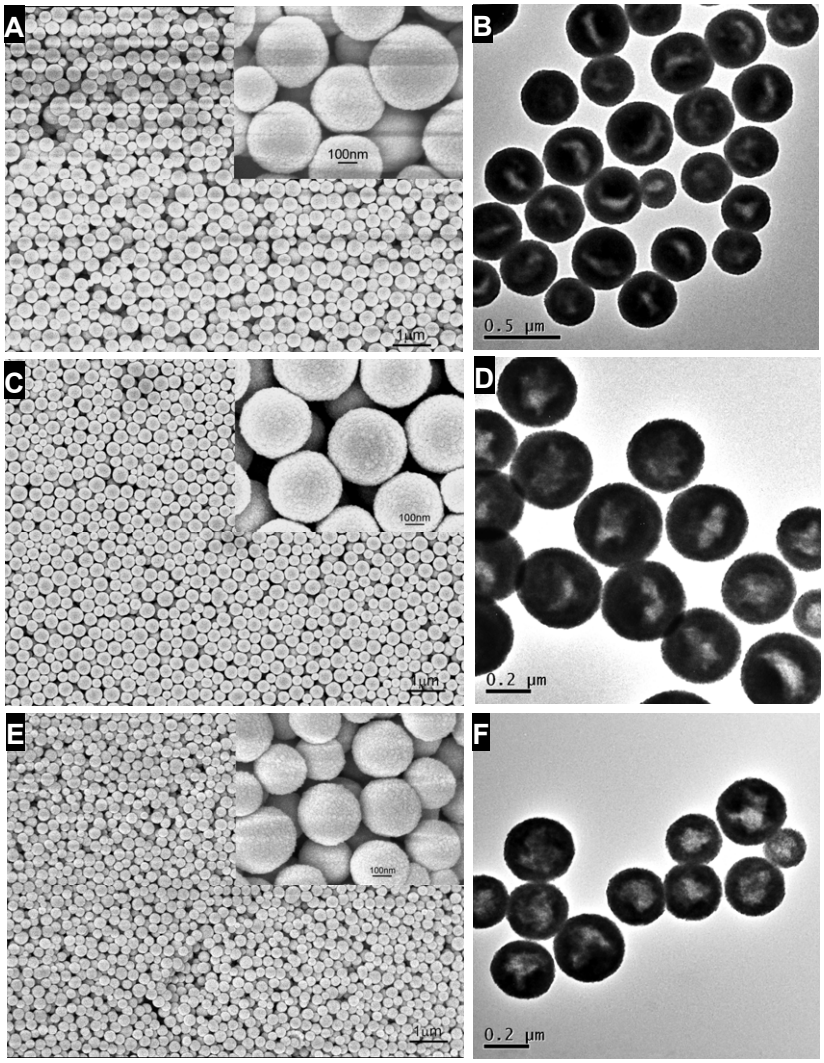

Figure S2. SnO_2 hollow nanospheres synthesized at 150 ^{o}C for 4 h (A, B), 8h (C, D) and 24 h (E, F).

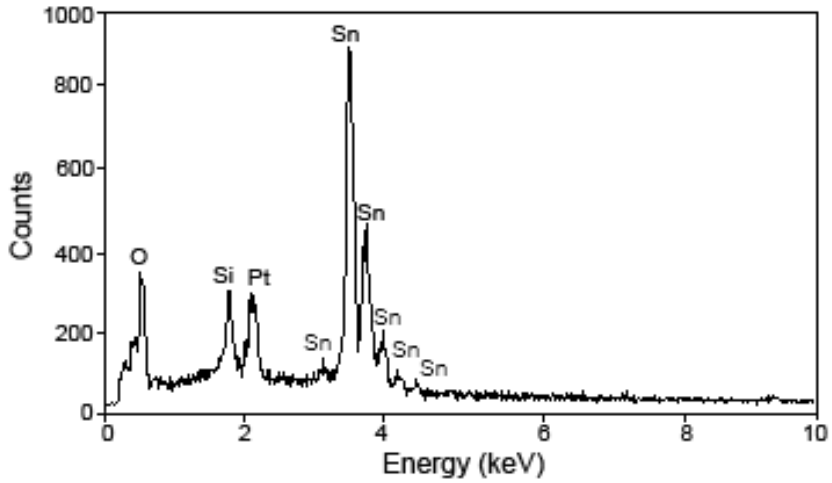

Figure S3. EDX spectrum of as-prepared SnO_2 hollow nanospheres after 24 h of reaction. The Si peak is from the Si wafer substrate, while the Pt peak is from Pt coating.

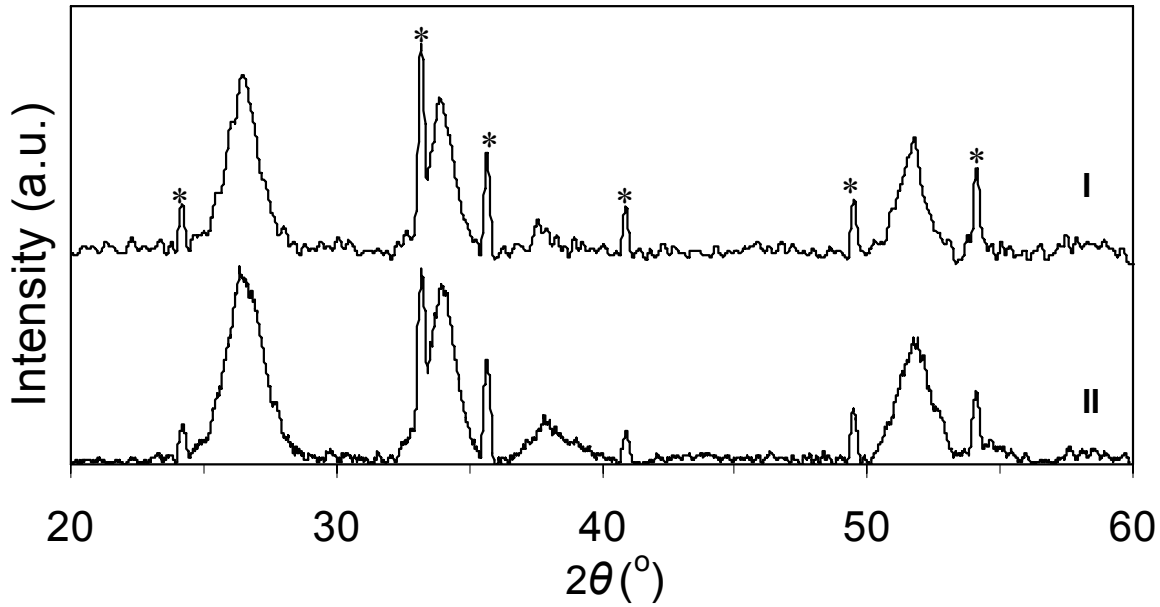

Figure S4. XRD patterns of as-prepared Fe_2O_3@SnO_2 nanorattles synthesized with different reaction times: I, 2 h; II, 24 h. Peaks marked with asterisks are from α-Fe_2O_3 (JCPDS card no. 33-0664).