Supporting Information for

A Novel Hollowed CoO-in-CoSnO$_3$ Nanostructure with Enhanced Lithium Storage Capabilities

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Figure S1. SEM images of the Co$_2$(OH)$_2$CO$_3$@SnO$_2$ after thermal treatment at different temperatures of: (a)250, (b)300, (c)350, (d)400, (e)450, (f)550, (g)650, and (h)750°C.
Figure S2. XPS spectrum of CoOCoSnO$_3$@C with (b-d) showing the regions of Co 2p, O 1s and Sn 3d.

Figure S3. Cycling curve of solid core-shell structure by deposit ALD SnO$_2$ directly on CoO nanowire.
Figure S4. TEM images of (a) CoOOCsSnO₃@C and (b) CoOOCsSnO₃ after 100 cycles, showing the volume expansion and pulverization of the materials.