Co$_3$O$_4$/Carbon Nanotube Heterostructures with Bead-on-string Architecture for Enhanced Lithium Storage Performance

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SI-1

**Fig. S1** Typical SEM images of raw CNTs in low (a) and high (b) magnification.
**SI-2**

Fig. S2 The size distribution of the formed $\text{Co}_3\text{O}_4$ spheres on CNTs.

**SI-3**

Fig. S3 TEM image of the half-wrapped $\text{Co}_3\text{O}_4$ spheres on CNTs.
**Fig. S4** SEM image of the aggregated Co$_3$O$_4$ spheres.

**SI-5**

**Fig. S5** The differential capacity, dq/dV versus voltage plots extracted from Figure 6. (a), (b): Co$_3$O$_4$/CNT heterostructures; and (c), (d): aggregated Co$_3$O$_4$ spheres.
**Fig. S6** SEM images of the Co$_3$O$_4$/CNT heterostructures after 30 galvanostatical discharge/charge cycles.