Supplementary information

Hollow Spherical LiNi_{0.5}Mn_{1.5}O₄ Built from Polyhedra with High-Rate Performance via Carbon Nanotube Modification

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Figure S1. TG-DSC curves of LNMO precursor calcinated from 25 to 800 °C.



Figure S2. XRD patterns of LNMO-800 and LNMO-900.



Figure S3. SEM images of (a) precursor, (b) oxide, (c) EDS images of oxide, (d) HRSEM of LNMO-850, (e) SEM and EDS images of LNMO-850, (f) SEM and EDS images of LNMO-850/CNT and (g) TEM of LNMO-850.



Figure S4. (a) Discharge curves of LNMO-850/CNT at different rate, Charge/discharge curves in a voltage range 3.0 - 4.9 V at (b) 0.5 C, (c) 1 C, (d) 2 C.



Figure S5. Curves of energy/power density of LNMO-850 and LNMO-850/CNT.

voltage (V)	a	a′	∆a	b	b′	∆b
LNMO-800	4.763	4.586	0.177	4.838	4.633	0.205
LNMO-850	4.741	4.61	0.131	4.806	4.657	0.149
LNMO-850/CNT	4.741	4.624	0.117	4.804	4.672	0.132
LNMO-900	4.731	4.63	0.101	4.793	4.68	0.113

Table S1. Voltage difference values of LNMO-800, LNMO-850, LNMO-850/CNT, and LNMO-900.