

SUPPORTING INFORMATION

Facile synthesis of Mn-doped NiCo₂O₄ nanoparticles with enhanced electrochemical performance for battery-type supercapacitor electrode

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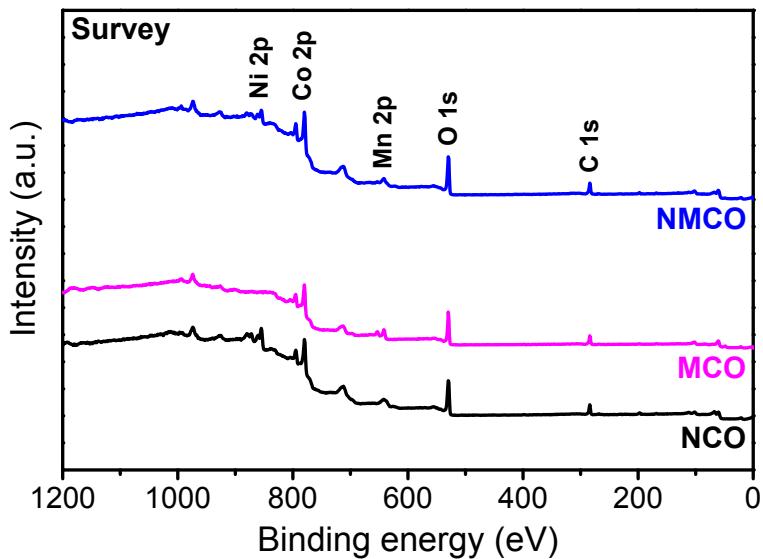


Figure S1. XPS survey spectra of NCO, MCO, and NMCO.

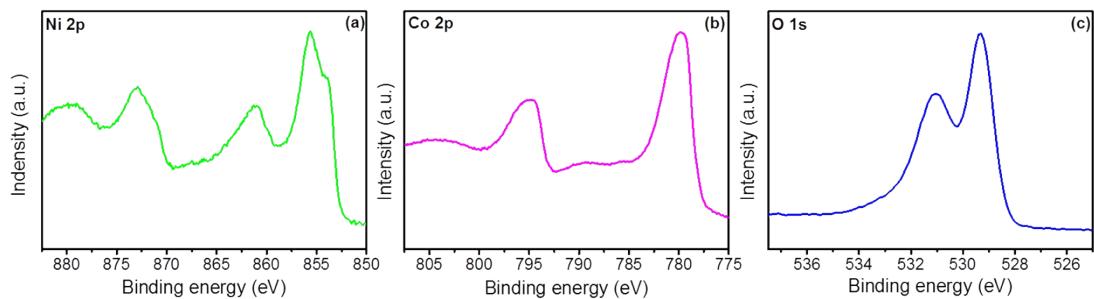


Figure S2. XPS spectra of (a) Ni 2p, (b) Co 2p, and (c) O 1s in NCO.

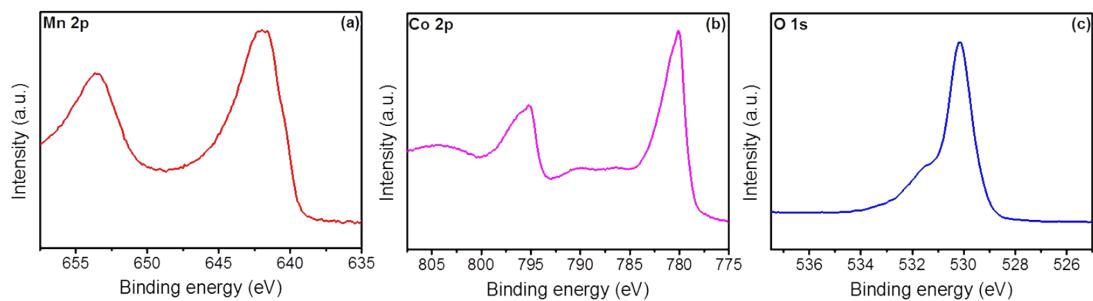


Figure S3. XPS spectra of (b) Ni 2p, (b) Co 2p, and (c) O 1s in MCO.

Table S1. Molar ratio of Ni:Mn:Co in NMCO estimated by ICP analysis.

	Ni	Mn	Co
1st analysis	0.297	0.030	1.000
2nd analysis	0.302	0.031	1.000

Table S2. EIS fitting parameters of NCO, NMCO, and MCO.

Samples	R_s (mΩ)	R_{ct} (mΩ)	W (mMho)	C_1 (μF)	C_2 (mF)
NCO	743	586	88.1	256	34.1
NMCO	687	630	121	247	25.1
MCO	689	475	27.2	299	22.0

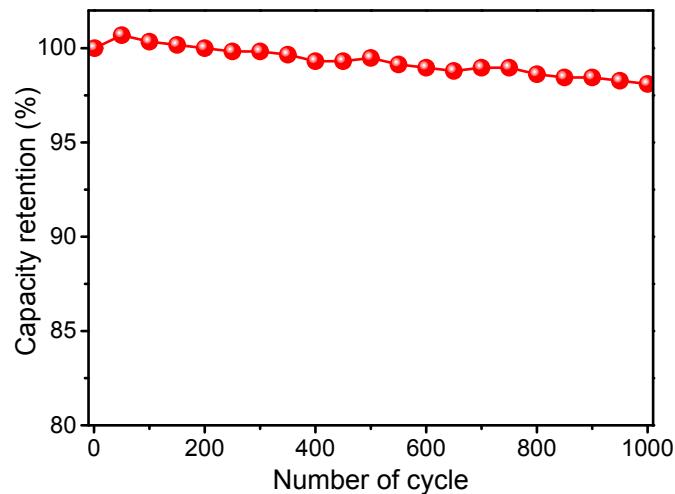


Figure S4. Long-term GCD stability test of the symmetric supercapacitor device with 1,000 cycles at 1.0 mA/cm².