

Electronic Supplementary Information

Surfacing Amorphous Ni-B Nanoflakes on NiCo₂O₄ Nanospheres as Multifunctional Bridges for Promoting Lithium Storage Behaviors

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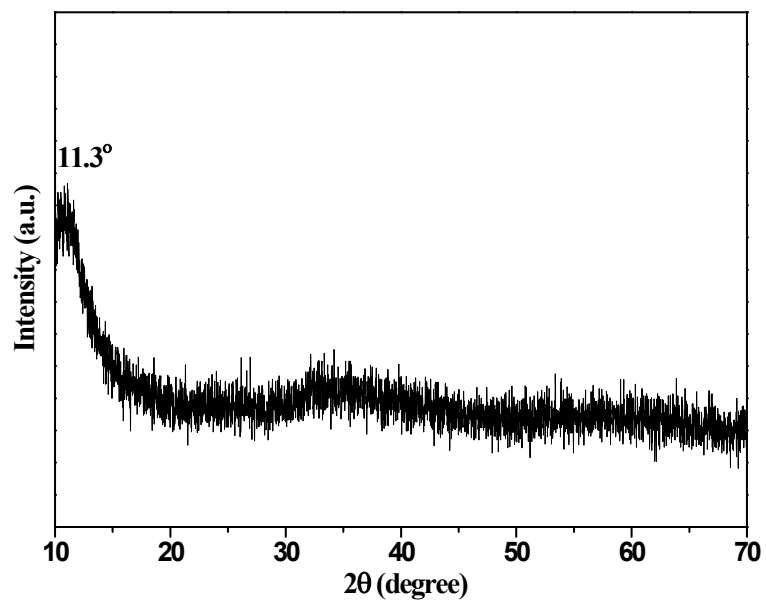


Figure S1. XRD pattern of the NiCo₂-glycerate precursor.

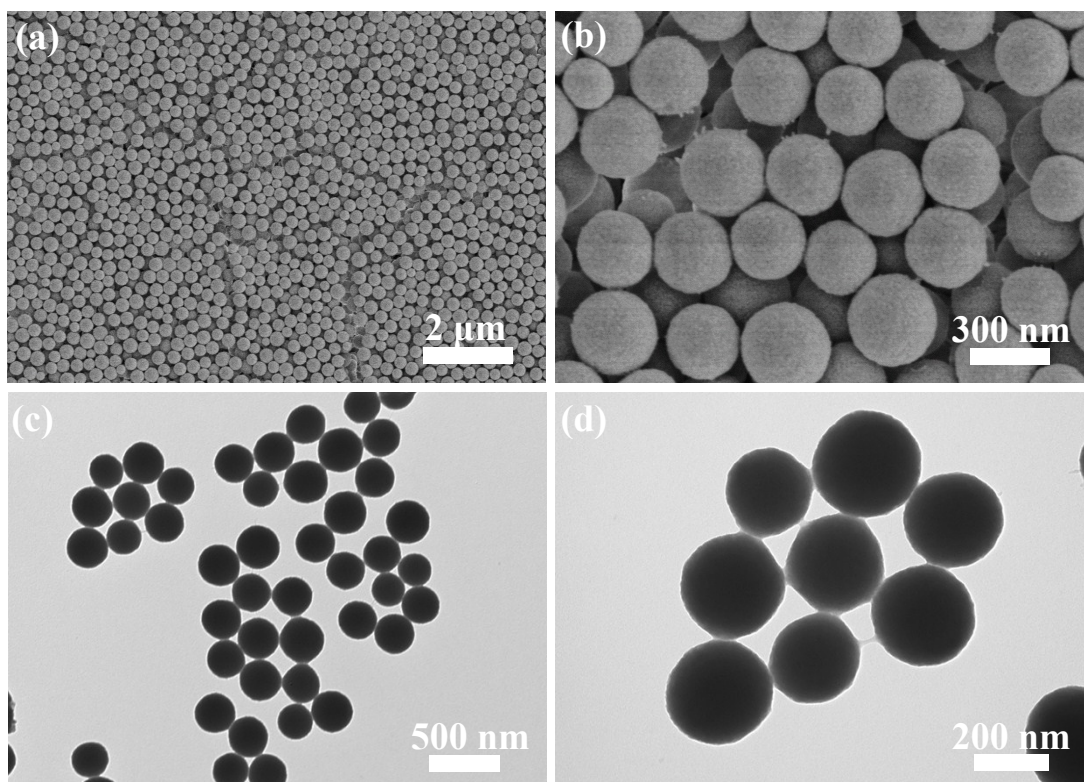


Figure S2. Morphologies of NiCo₂-glycerate precursors: Low and high-magnification (a, b) FESEM and (c, d) TEM.

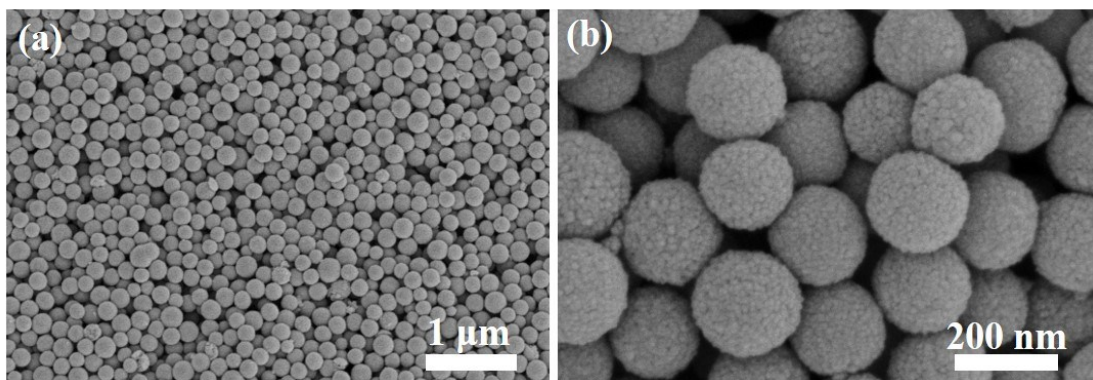


Figure S3. More morphology details of NiCo₂O₄ porous nanospheres.

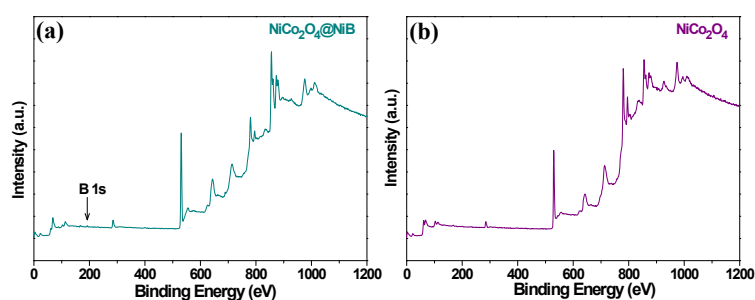


Figure S4. Comparison of XPS survey spectra of (a) NiCo₂O₄/NiB and (b) NiCo₂O₄.

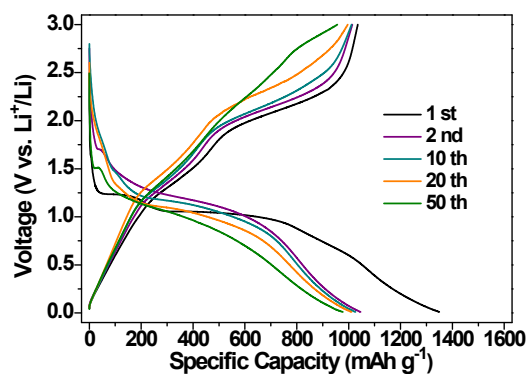


Figure S5. Galvanostatic charge–discharge profiles of NiCo₂O₄ electrode at 0.2 A g⁻¹ for selected cycles.

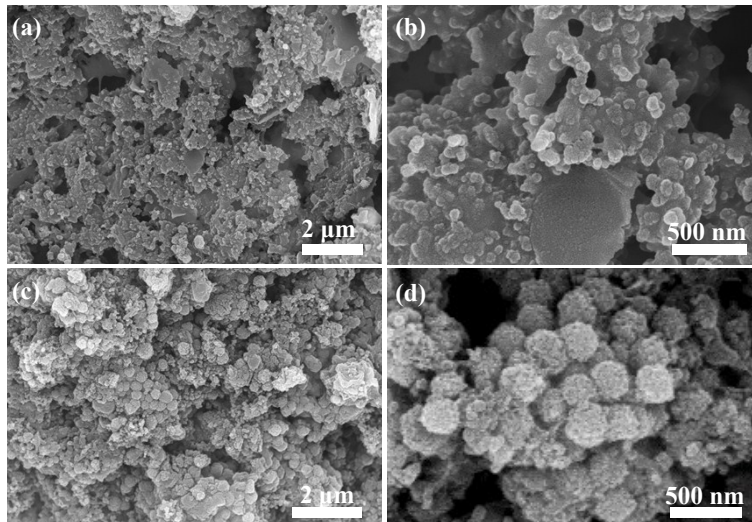


Figure S6. Low and high magnification SEM of the sample collected from the NiCo_2O_4 (a, b) and $\text{NiCo}_2\text{O}_4@\text{NiB}$ electrode (c, d) after 500 charge/discharge cycles at 500mA g^{-1} in LIB testing.

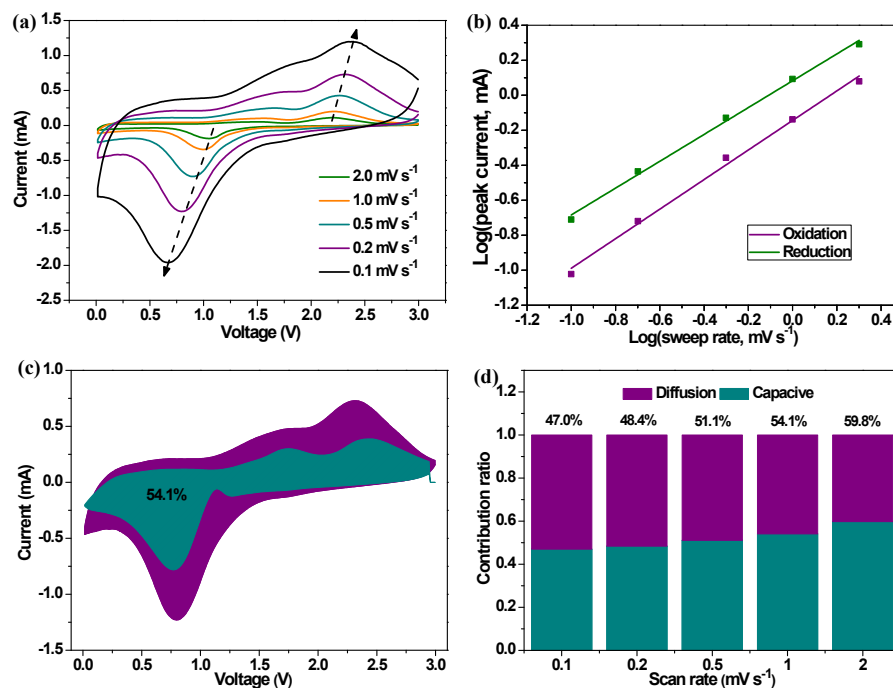


Figure S7. a) CV curves at different scan rates, (b) b-value analysis calculation, (c) separation of the capacitive and diffusion-controlled current contribution at 0.5 mV s^{-1} and (d) contribution ratio of the capacitive and diffusion-controlled charges at different scan rates of the NiCo_2O_4 electrode.