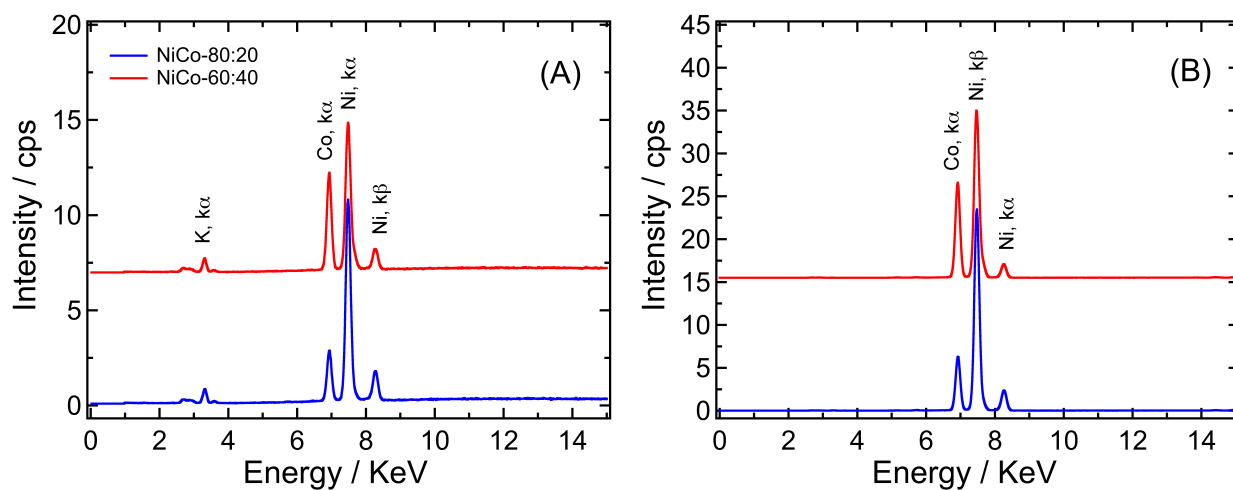


Thermodynamic Stabilization of Nanostructured $\alpha\text{-Ni}_{1-x}\text{Co}_x(\text{OH})_2$ for High Efficiency Batteries and Devices

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SUPPORTING INFORMATION



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Figure S1: EDX analyses of $\alpha\text{-Ni}_{1-x}\text{Co}_x(\text{OH})_2$ suspension in glycerin and as powder samples.

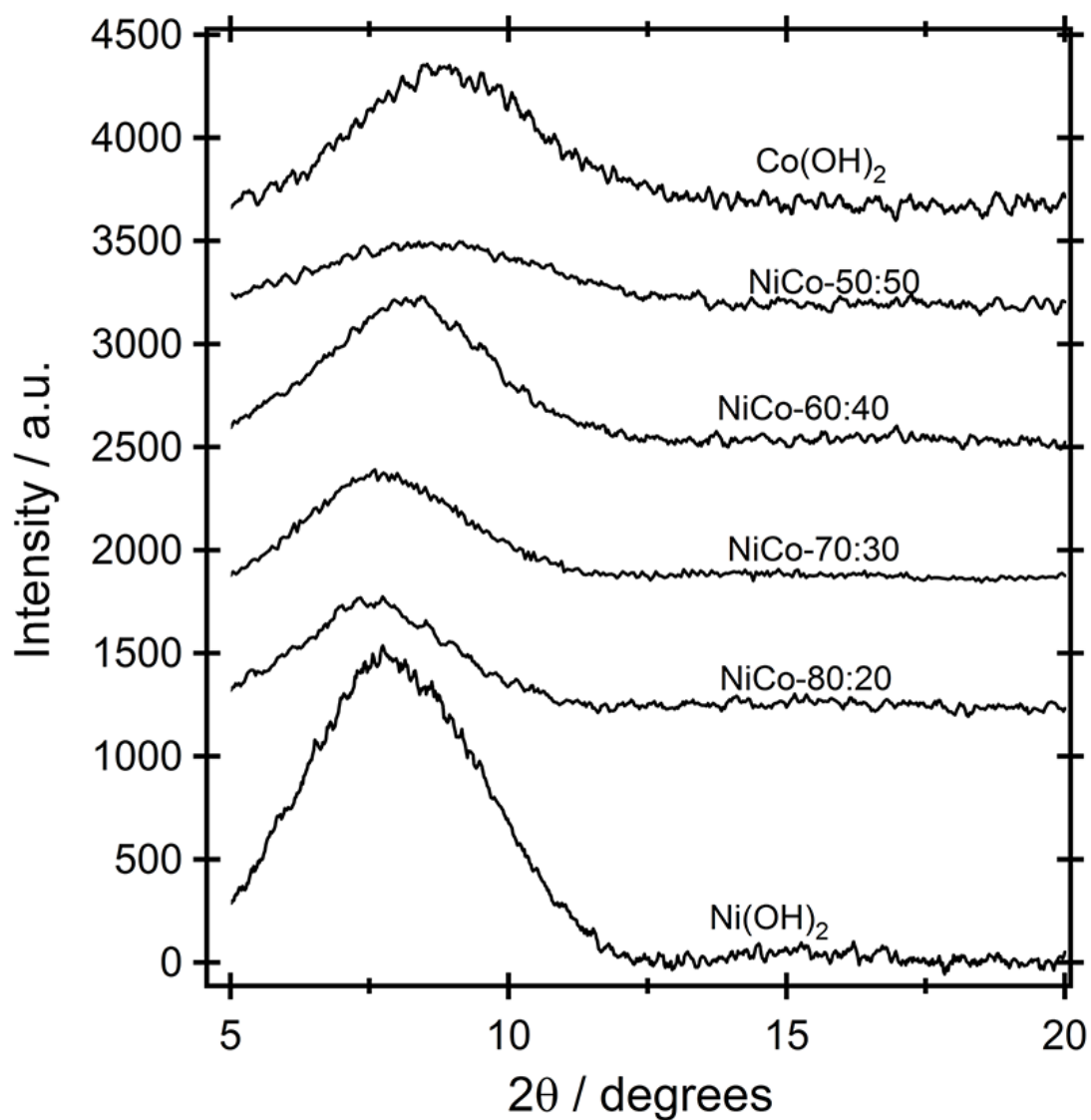


Figure S2: XRD patterns of Ni(OH)₂, Co(OH)₂ and Ni_{1-x}Co_x(OH)₂ in the 5 to 20 degrees (2θ) showing the 003 peak of typical alpha phase materials.

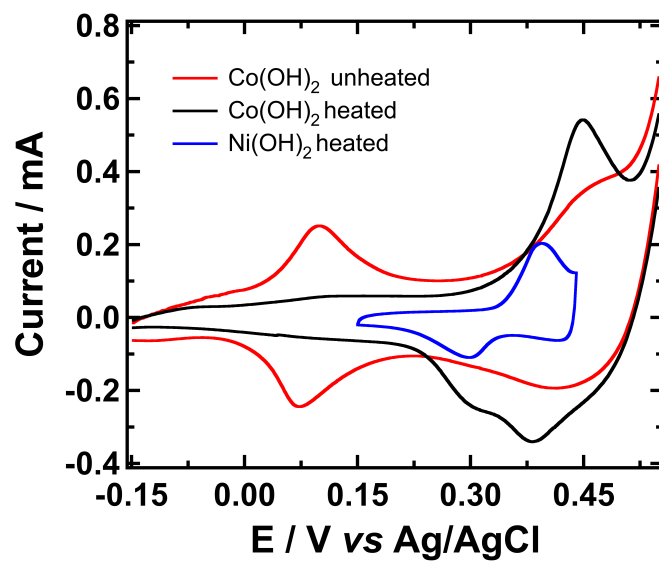


Figure S3: Cyclic voltammograms of FTO electrodes modified with $\alpha\text{-Co(OH)}_2$ before and after heat treatment at 240 °C, and modified with heated $\alpha\text{-Ni(OH)}_2$ in 1.0 mol.L⁻¹ solution.

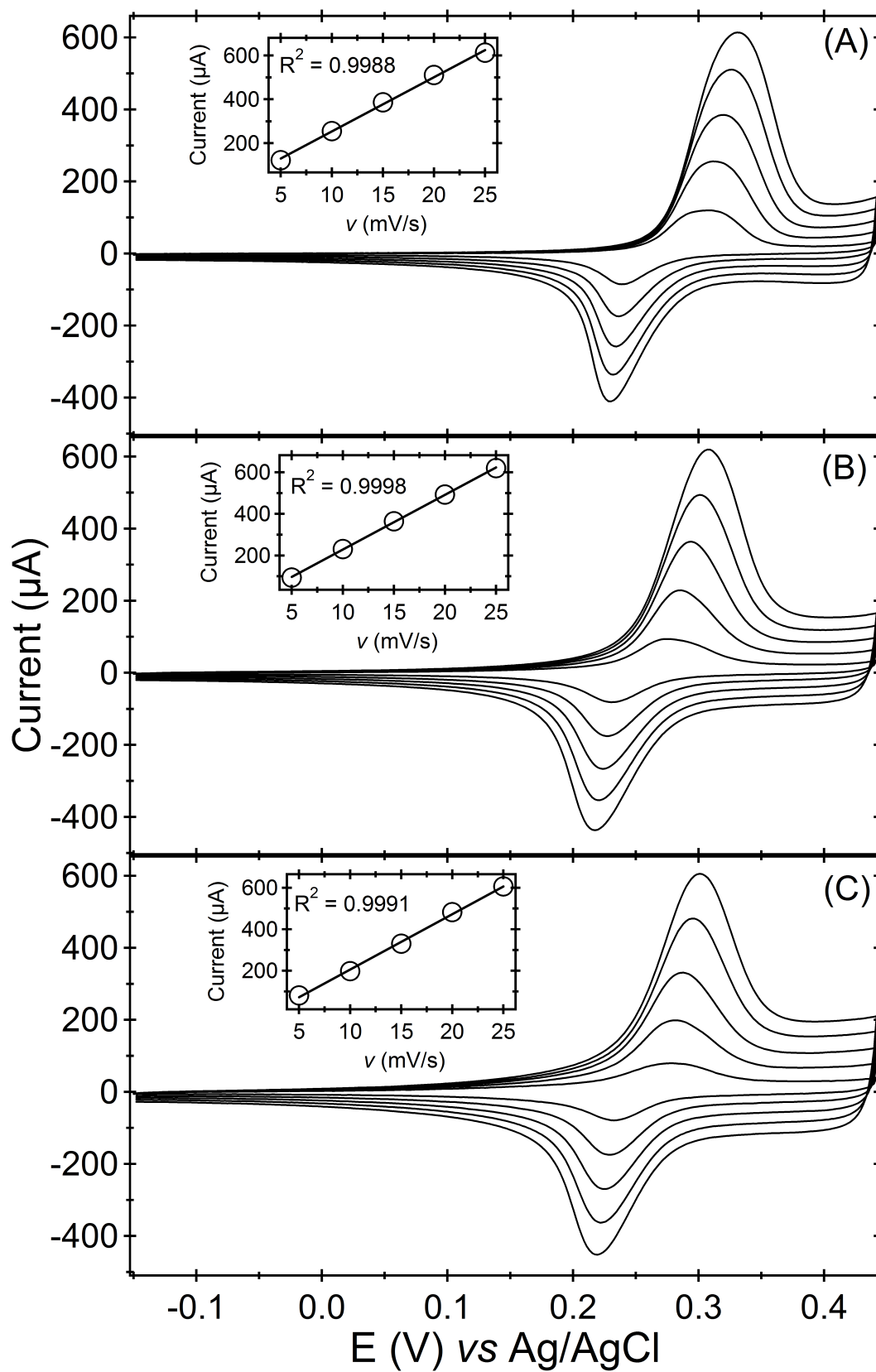


Figure S4: Cyclic voltammograms of FTO electrodes modified with (a) NiCo-80:20, (b) NiCo-60:40 and (c) NiCo-50:50 at different scan rates (5, 10, 15, 20 and 25 mV s^{-1}). Inset: Plots of current vs scan rate.