Supplementary Information

Fig. SI1. Cyclic voltammogram of Ni foil recorded in 1 M NiSO₄, 0.01 M CuSO₄, and 0.5 M H₃BO₃ mixed solution with a potential sweep rate of 10 mV/s.

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Fig. SI2. Linear sweep voltammogram of a porous Ni electrode recorded in 0.1 M Co(CH$_3$COO)$_2$ aqueous solution with a potential sweep rate of 1 mV/s.
Fig. SI3. Cyclic voltammograms of the nano-structured Co(OH)$_2$ electrode with a Ni-4C substrate (curve a) and the bare Ni-4C electrode (curve b) recorded in 1 M KOH solution with a potential sweep rate of 5 mV/s.
Fig. SI4. Chronopotentiogram of the nano-structured Co(OH)$_2$ electrode with a Ni-4C substrate at the 2000$^{th}$ charge–discharge cycle. The measurement was performed with a constant current density of ±0.5 mA/cm$^2$ in 1 M KOH solution.

$C = 2850 \text{ F/g}$