

Electronic supplementary information (ESI)

ESI Figure 1 TEM images of the product was synthesized by (0.28 g cobalt chloride and 0.30 g sodium pyrophosphate were mixed with 20 mL ethylene glycol under different hydrothermal conditions), (a) 2 days; (b) 4 days; (c) 6 days; (d) 8 days.



ESI Figure 2 XRD patterns of the product was synthesized by (0.28 g cobalt chloride and 0.30 g sodium pyrophosphate were mixed with 20 mL ethylene glycol under different hydrothermal conditions), (a) 2 days; (b) 4 days; (c) 6 days.



ESI Figure 3. SEM image of the product $(Co_{11}(HPO_3)_8(OH)_6$ microarchitecture) obtained from 0.28 g cobalt chloride and 0.30 g sodium pyrophosphate were mixed with 20 mL deionized water, which was maintained at 200 °C for six days.



ESI Figure 4. Cyclic voltammetry experiments within a 0.0–0.50 V range at a scan rate 5, 10 mV s⁻¹ were performed on the layered CoHPO₄·3H₂O ultrathin nanosheets electrodes in 3.0 M KOH electrolytes at room temperature.