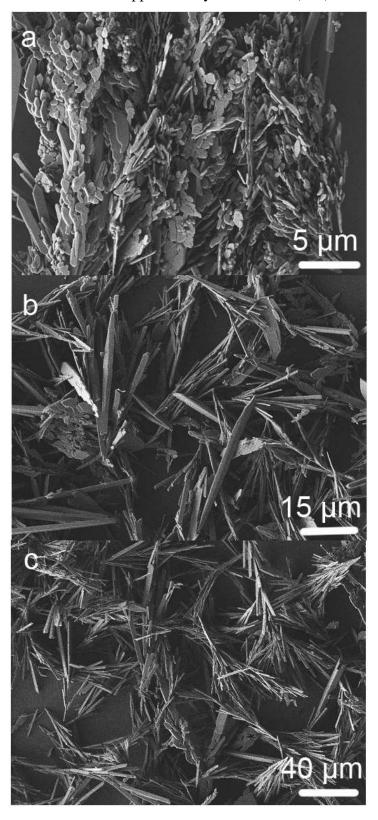
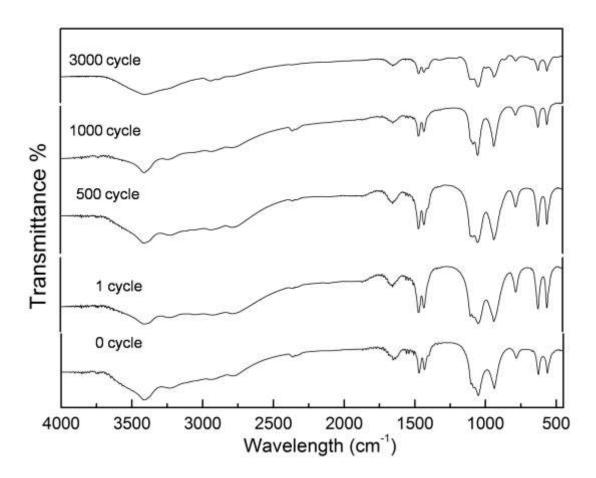
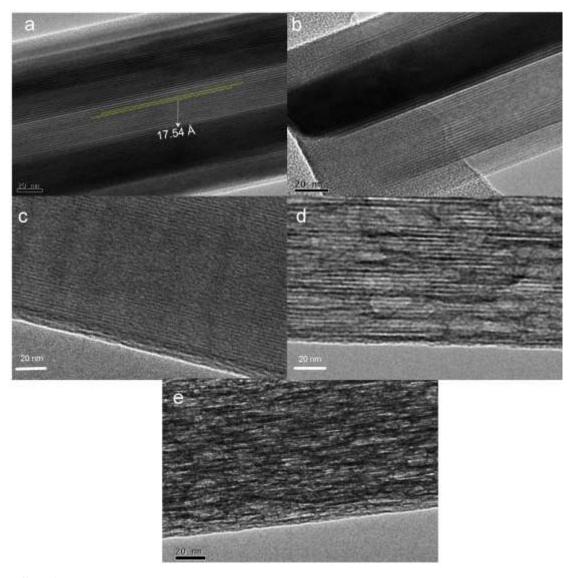
Electronic supplementary information (ESI)



ESI Figure. 1 The product was synthesized under different hydrothermal conditions, (0.10 g of cobalt nitrate and 0.15 g ammonium tertiary phosphate were added into 20.0 mL of distilled water) (a) 8 h; (b) 16 h; and (c) 32 h.



ESI Figure. 2 IR measurements of layered NH₄CoPO₄·H₂O microbundles before-0 cycle, and after different charging-discharging cycles-1 cycle, 500 cycle, 1000 cycle, and 3000 cycle.



ESI Figure. 3 HRTEM measurements of layered $NH_4CoPO_4 \cdot H_2O$ microbundles electrodes before (a) 0 cycle, and after different charging-discharging cycles, (b) 1 cycle, (c) 500 cycle, (d) 1000 cycle, and (e) 3000 cycle.