

Electronic Supplementary Information (ESI)

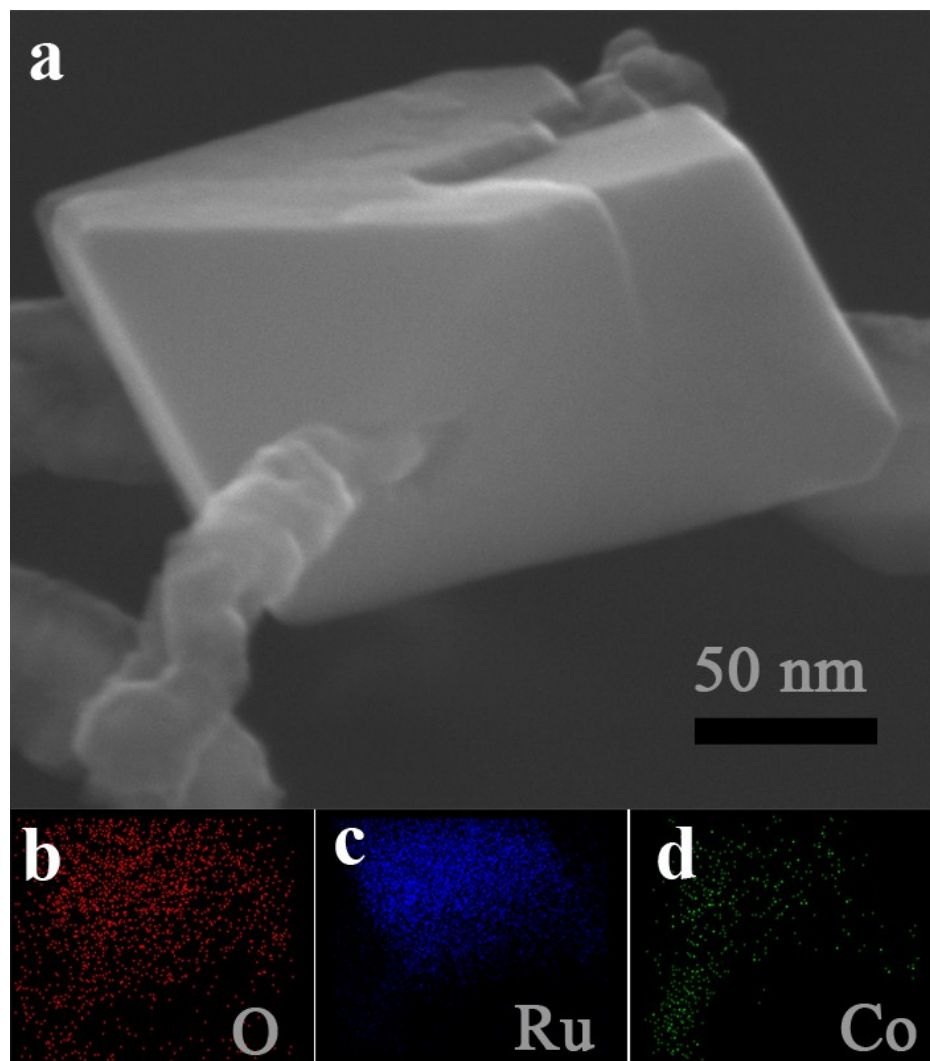


Figure S1. (a) FE-SEM image of $\text{RuO}_2@\text{Co}_3\text{O}_4$ HNFs; (b, c and d) Corresponding EDS mapping with elements O, Ru and Co.

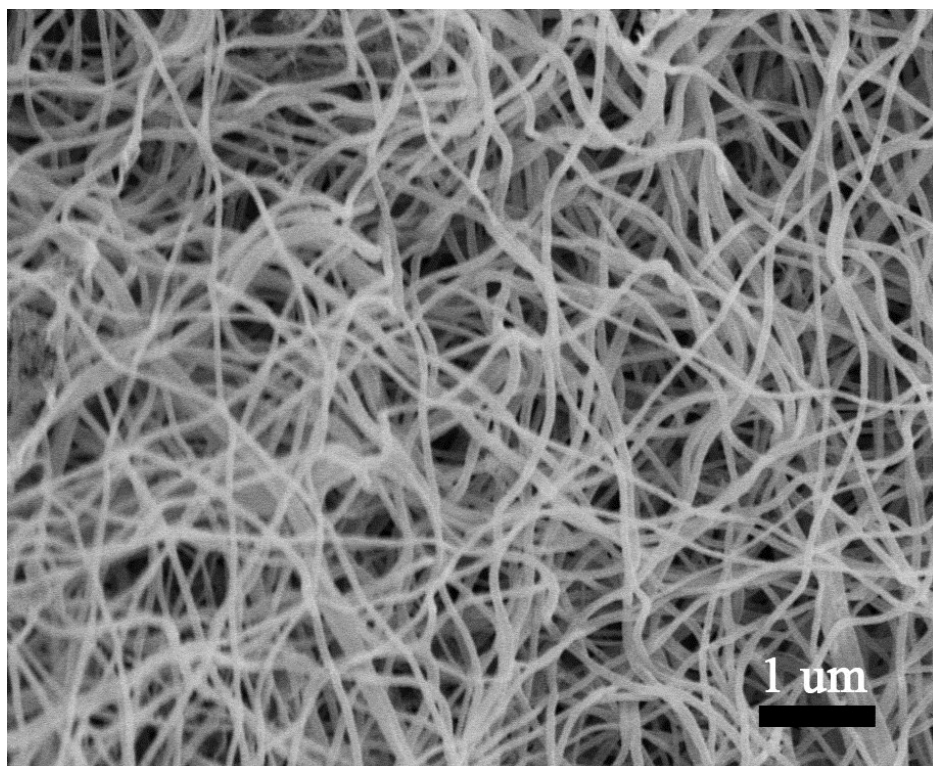


Figure S2. FE-SEM image of the pure Co_3O_4 NFs.

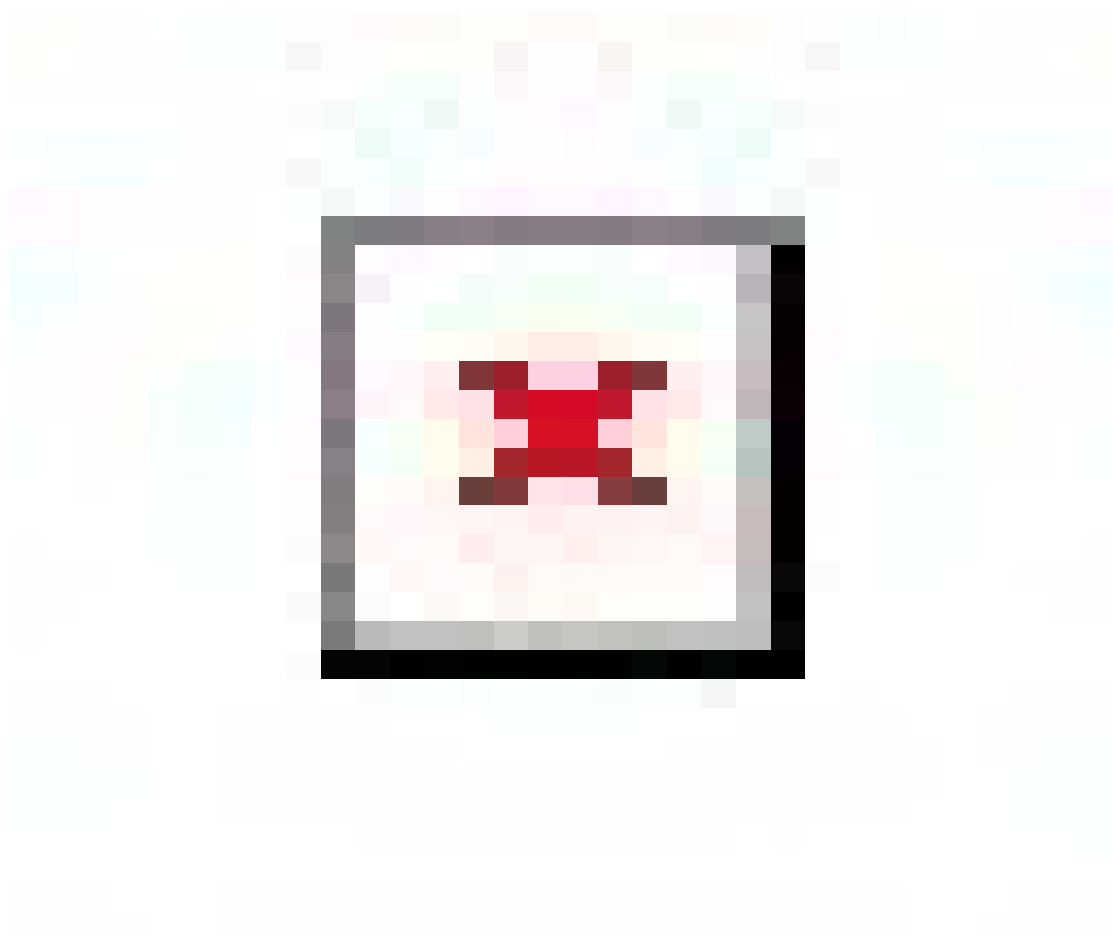


Figure S3. XRD patterns of the pure Co₃O₄ NFs.

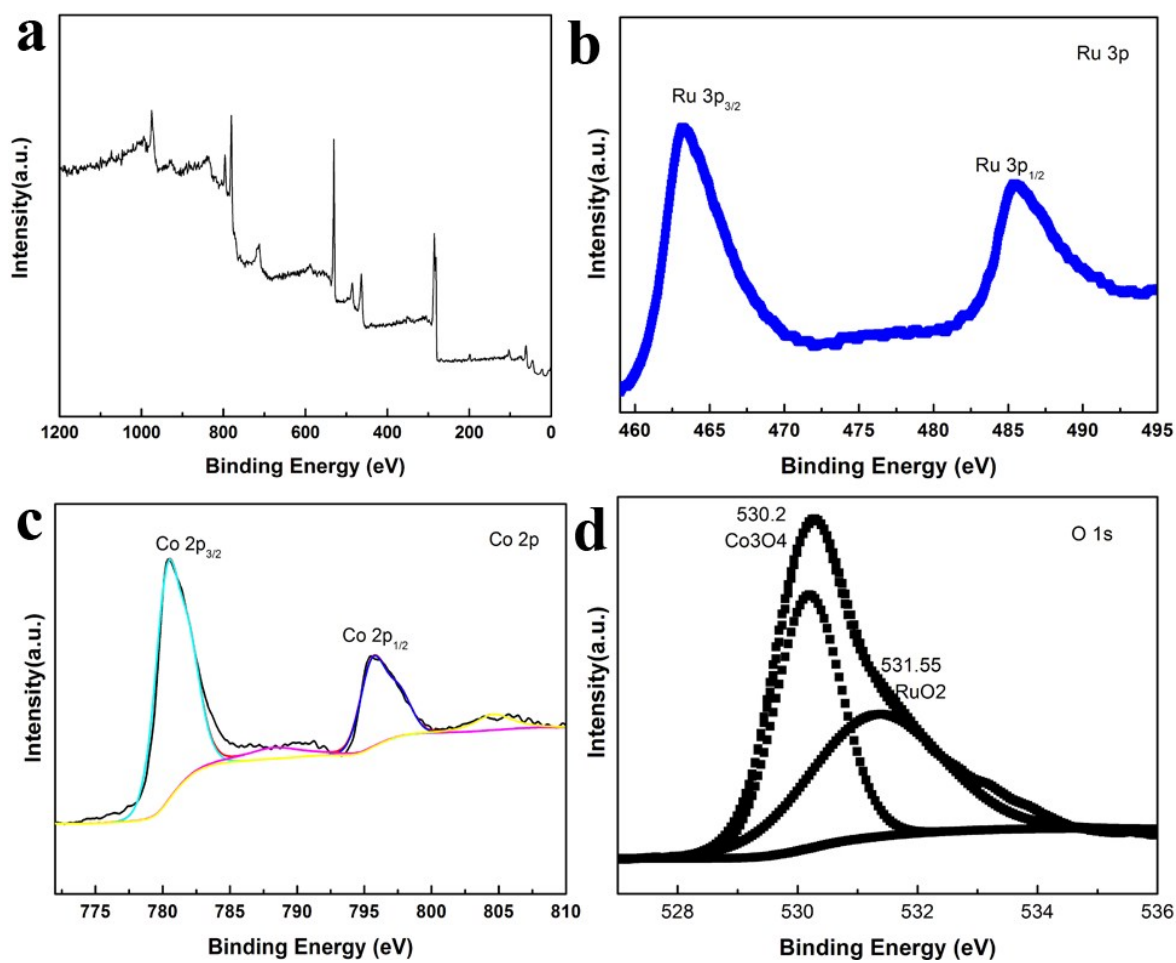


Figure S4. (a) XPS general spectra of the RuO₂@Co₃O₄ HNFs and deconvoluted (b) Ru 3p, (c) Co 2p and (d) O 1s spectra.

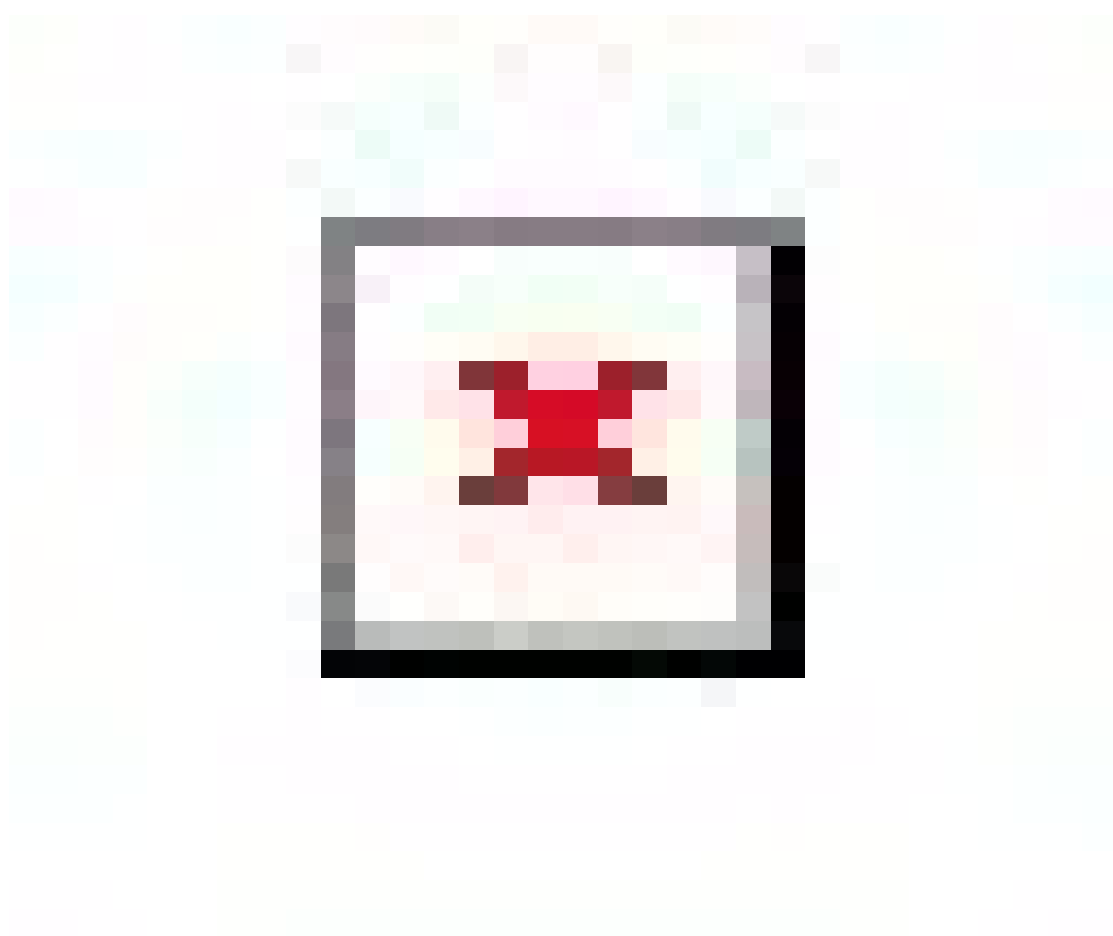


Figure S5. XRD patterns of as-prepared RuO₂@Co₃O₄ HNFs composite calcined at 350 and 450 °C.

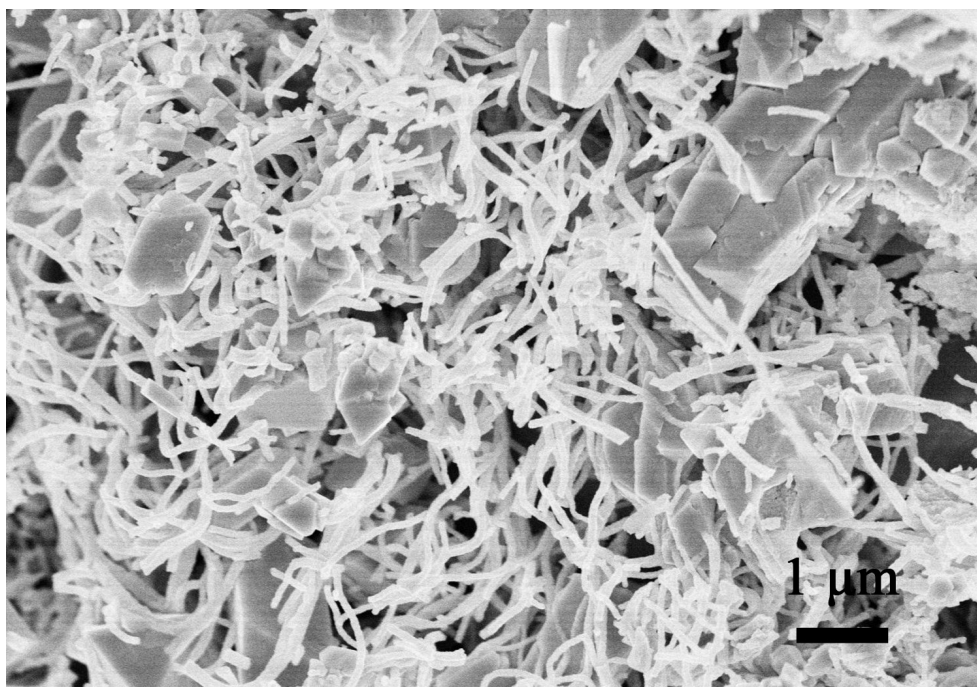


Figure S6. FE-SEM image of $\text{RuO}_2@\text{Co}_3\text{O}_4$ HNFs with high atomic ratio of Ru: Co.

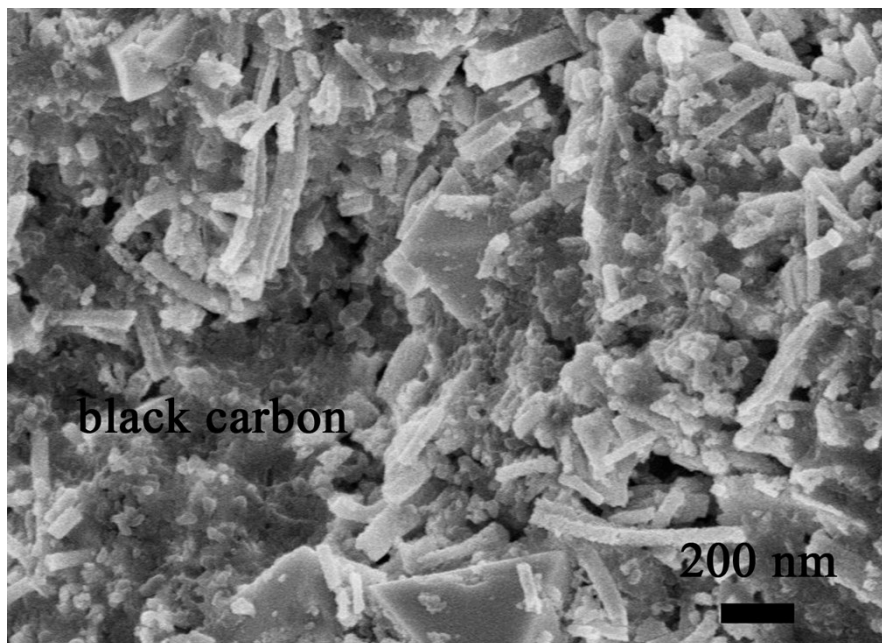


Figure S7. FE-SEM image of the $\text{RuO}_2@\text{Co}_3\text{O}_4$ HNFs after cycling test.