

Electronic Supplementary Information (ESI)

Template free synthesis of hierarchically porous  $\text{NaCoPO}_4\text{-Co}_3\text{O}_4$  hollow microspheres and their application in electrocatalysts for glucose

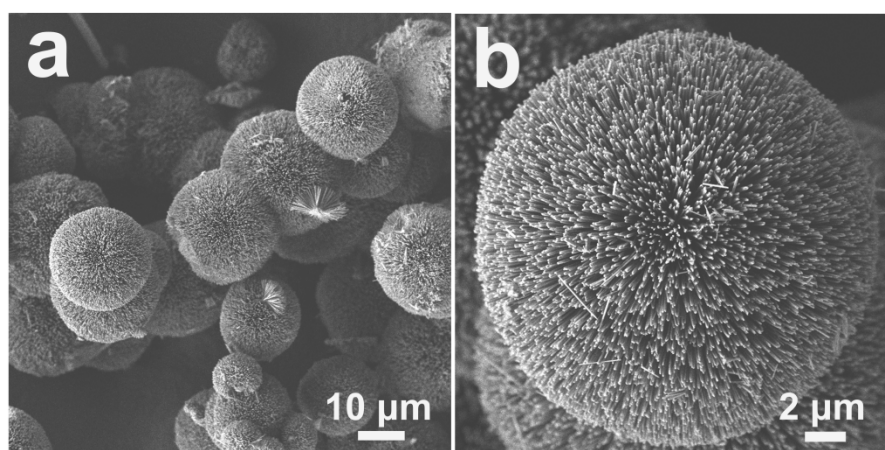


Fig. S1 FESEM images of the sample prepared without adding sodium tartaric.

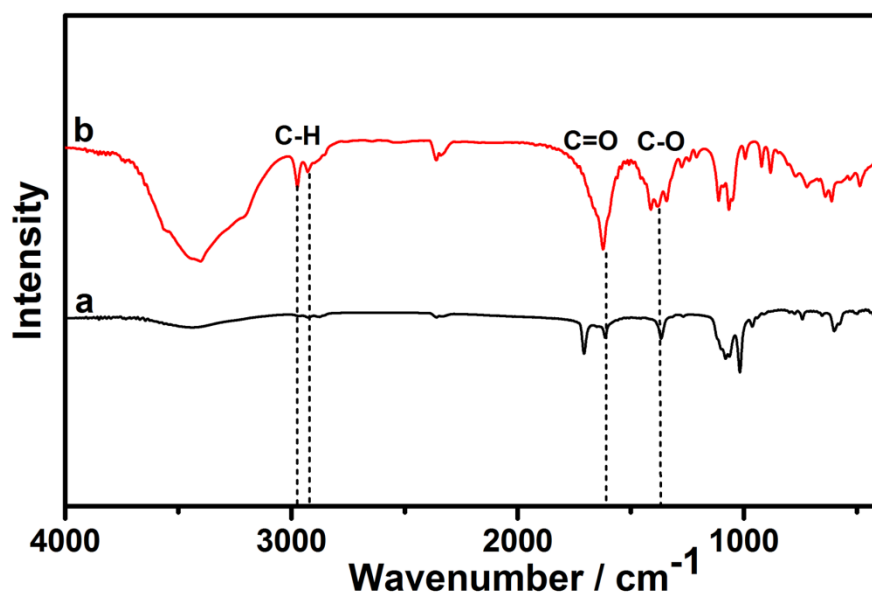
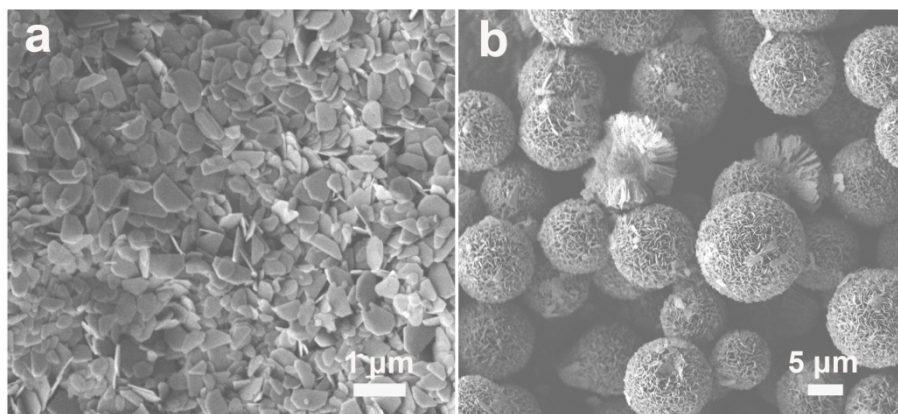


Fig. S2 FTIR spectra of the hierarchically hollow microspheres precursors (a) and sodium tartaric (b).



**Fig. S3** SEM images of the samples prepared under different reaction temperature: (a) 160 °C; (b) 220 °C.

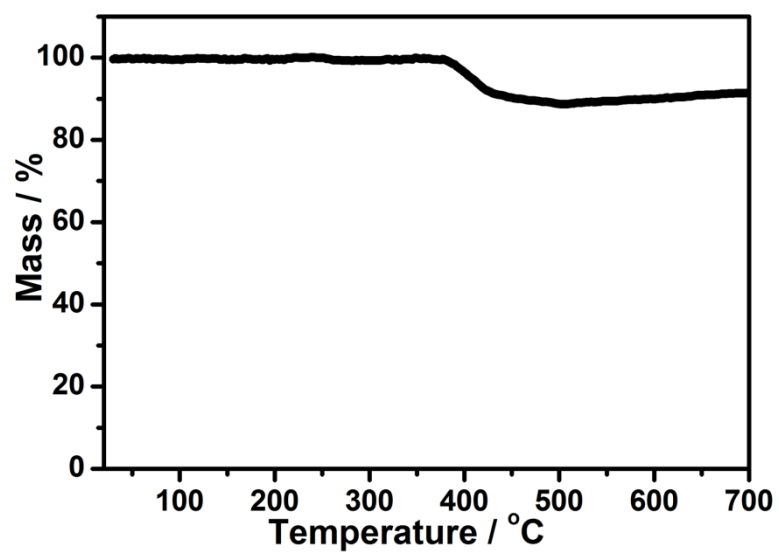


Fig. S4 Thermogravimetric curve of the hierarchically hollow microspheres precursors.

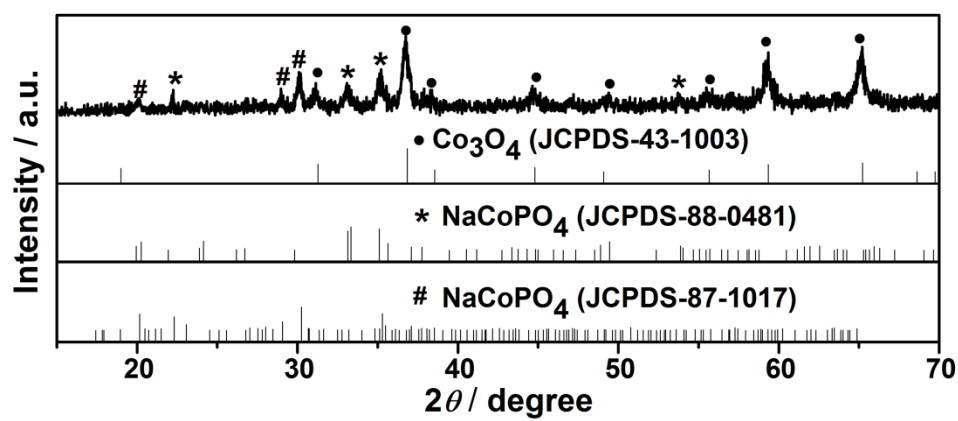
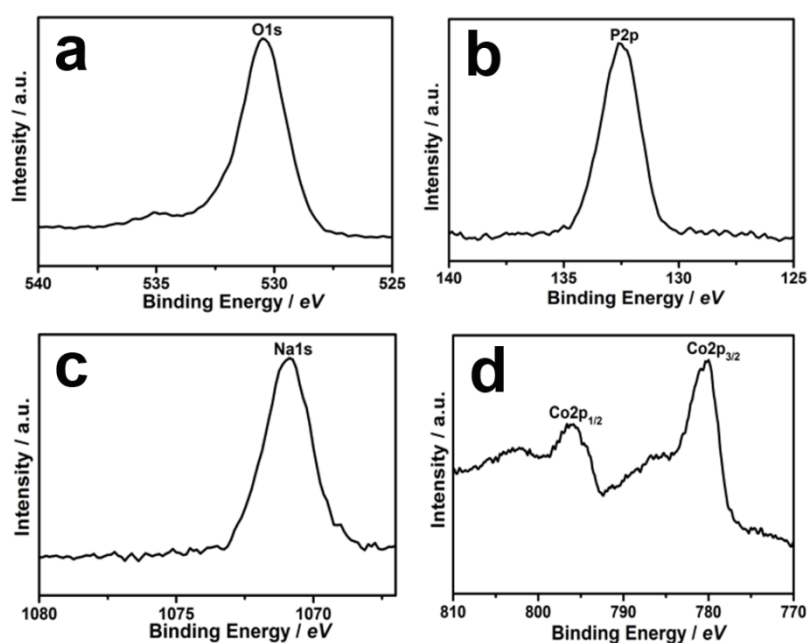


Fig. S5 XRD patterns of the as-prepared  $\text{NaCoPO}_4\text{-Co}_3\text{O}_4$ .



**Fig. S6** X-ray photoelectron spectroscopy (XPS) survey scan spectra of the NaCoPO<sub>4</sub>-Co<sub>3</sub>O<sub>4</sub> composites: (a) O 1s; (b) P 2p; (c) Na 1s; (d) Co 2p.