Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting information

Electrospinning One-dimensional Surface-phosphorized CuCo/C nanofibers for Enzyme-free Glucose Sensing

Cao, Fuhu; [a, b, c] Zhou, Yi; [a] Wu, Ju; [a] Li, Wen; [a] Zhang, Chuanling; [a] Ni, Gang; [a, *] Cui, Peng; [a, *] Song, Changjiang [c, *]

a. *School of Chemistry and Chemical Engineering, Hefei University of Technology, Tunxi Road 193, Hefei, 230009, Anhui, P. R. China*

b. *School of Materials Science and Engineering, Hefei University of Technology, Tunxi Road 193, Hefei, 2300009, Anhui, P. R. China*

c. *Anhui Zhongyi Rubber Belts Co. Ltd., Huaihai East Road 157, Huaibei, 235047, Anhui, P. R. China*

*. *Corresponding author, Email address: gangni@hfut.edu.cn, cuipeng@hfut.edu.cn, ahzyjd@163.com*

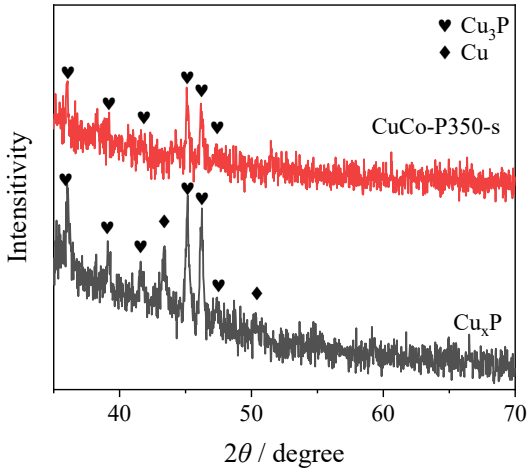

Fig. S1 XRD patterns of the Cu_xP and CuCo-P350-s samples

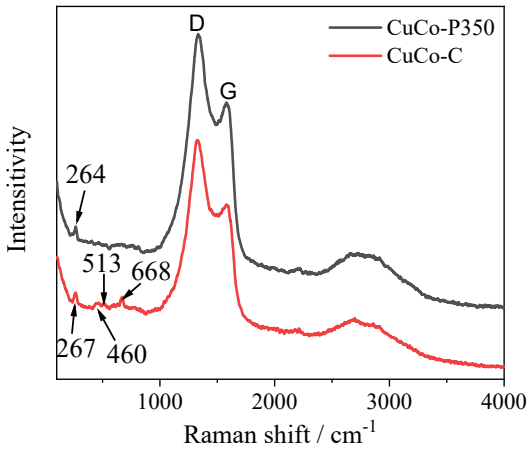

Fig. S2 Raman spectra of the CuCo-C and CuCo-P350

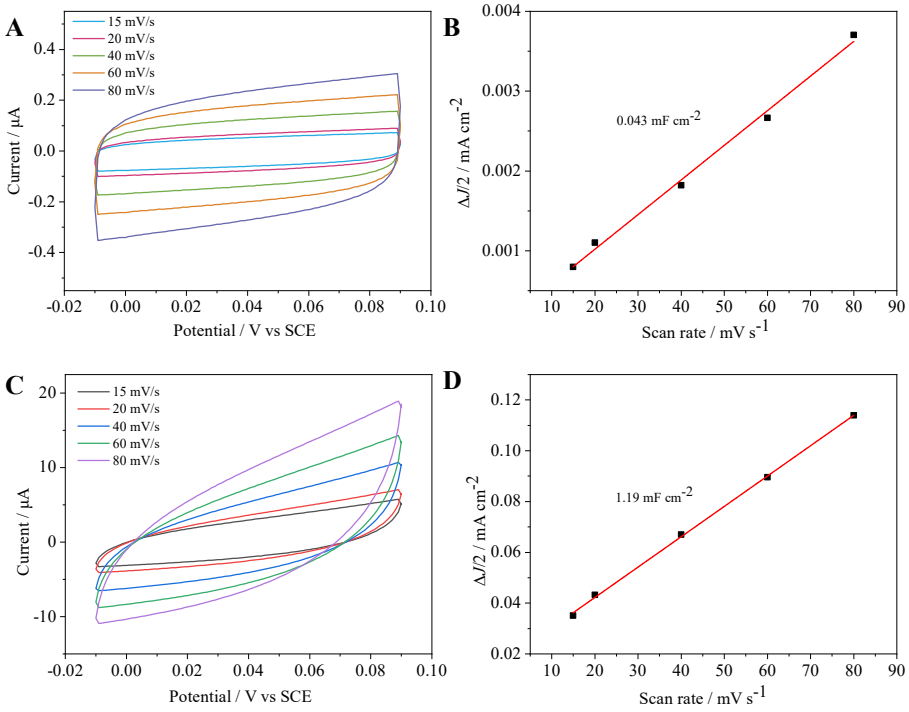

Fig. S3 Electrochemical active surface area of CuCo-P350-s (A-B) and CuCo-P350 (C-D) modified electrodes

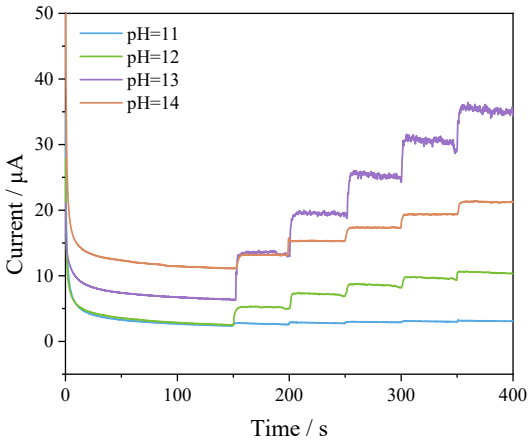

Fig. S4 The effect of pH on the glucose sensing performance

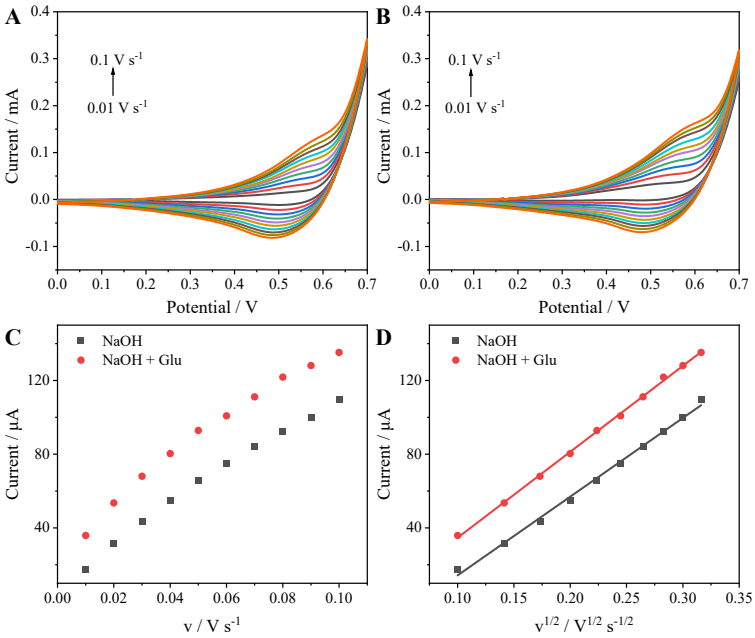

Fig. S5 CV (A-B) and corresponding linear fitting curves (C-D) of CuCo-P350 in 0.1 M NaOH with the absence (A) and presence (B) of 1mM glucose under various scanning rates from 10 to 100 mV·s^{-1}

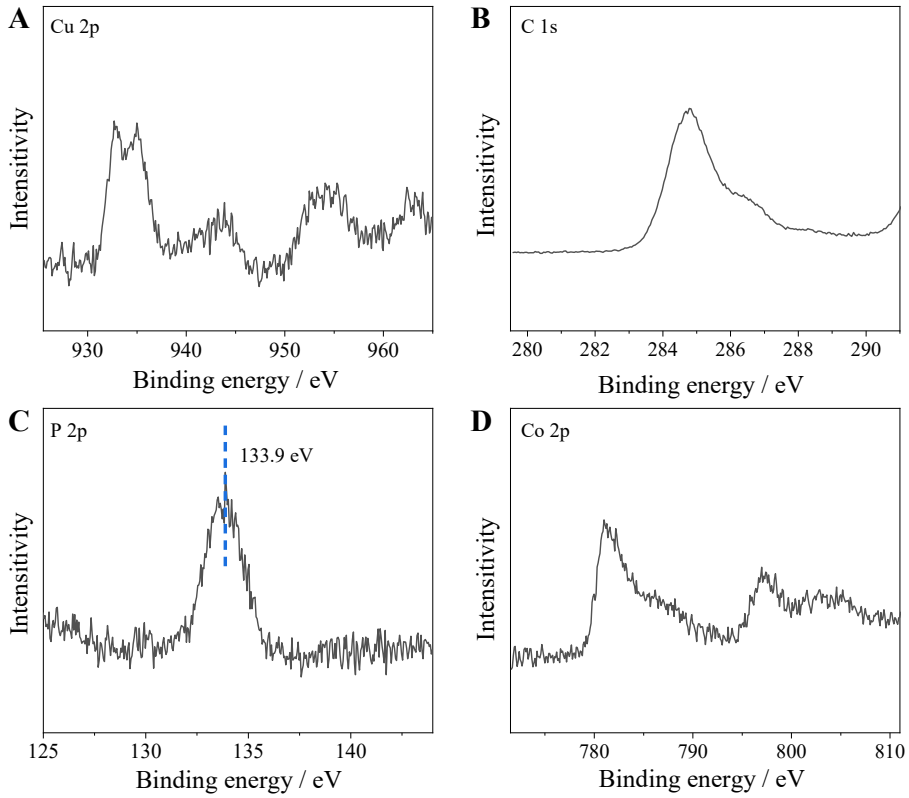

Fig. S6 High resolution P 2p XPS spectra of CuCo-P350 after electrochemical measurements

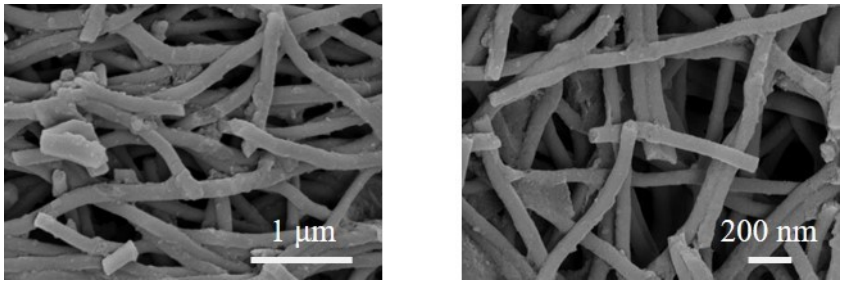

Fig. S7 SEM images of the CuCo-P350 sample after electrochemical measurements