Electronic Supplementary Information

Non-enzymatic glucose sensor based on the CuS nanoflakes-reduced

graphene oxide nanocomposite

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Fig. S1 Element mapping images of C, Cu, and S in rGO/CuSNFs composite.



Fig. S2 XPS C 1s spectra of GO and rGO/CuSNFs composite.



Fig. S3 CVs of rGO/CuSNFs/GCE in 0.1 M NaOH in the absence of glucose.



Fig. S4 CVs of bare GCE in 0.1 M NaOH without and with 3.0 mM glucose. Scan rate: 0.1 V s $^{-1}$.



Fig. S5 Cyclic voltammograms of 0.6 mM glucose at the rGO/CuSNFs/GCE with different pH values (8.0–14.0).



Fig. S6 Plots of oxidation current versus the detection potential at the rGO/CuSNFs/GCE in 0.1 M NaOH obtained by amperometric measurements.