

Supporting Information

$\text{Ni}_{0.31}\text{Co}_{0.69}\text{S}_2$ Nanoparticles Uniformly Anchored on the Porous Reduced Graphene Oxide Framework for High Performance Non-enzymatic Glucose Sensor

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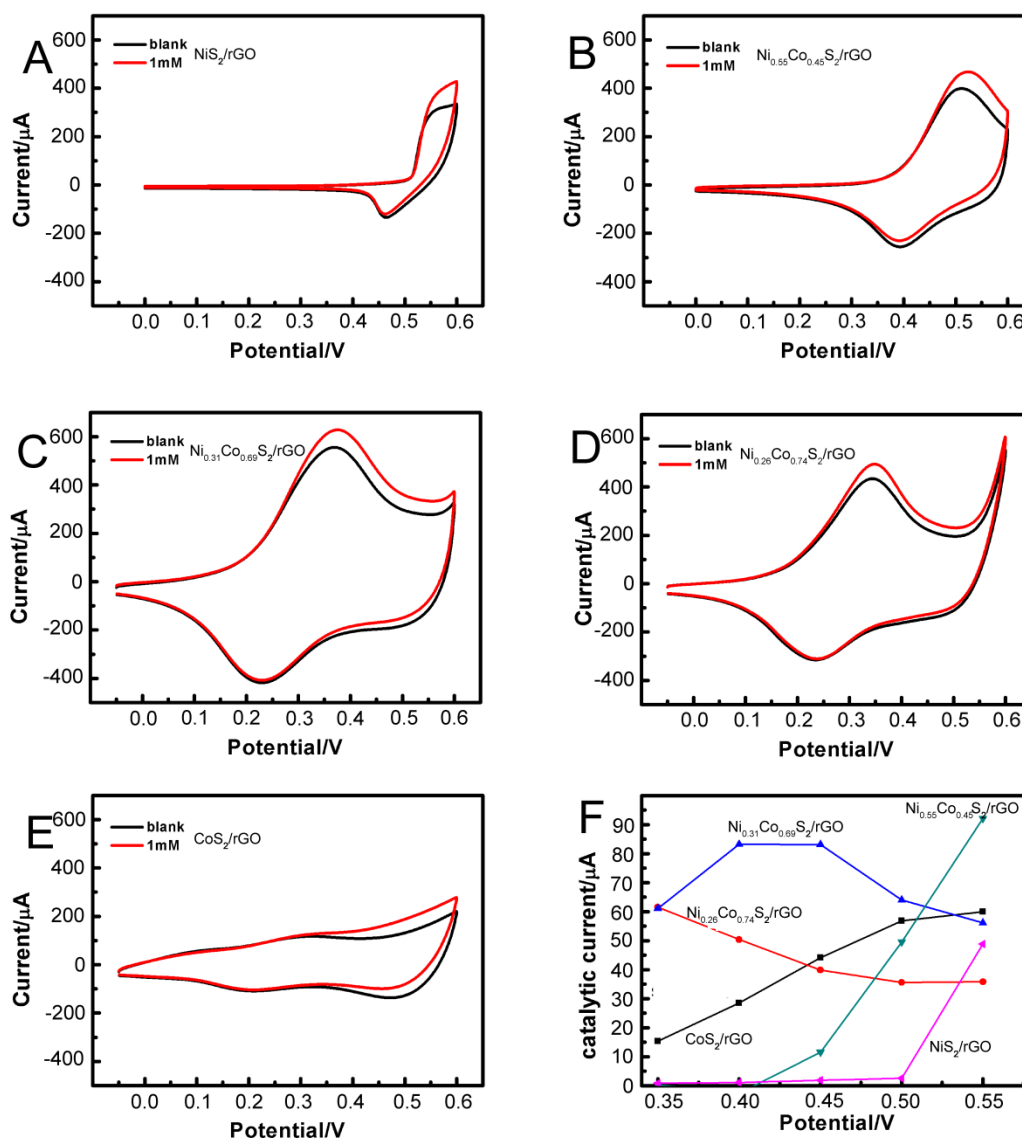


Fig.S1 CVs of the different modified electrodes at 20 mV/s in the absence and present of 1 mM glucose: (A) NiS₂/rGO, (B) Ni_{0.55}Co_{0.45}S₂/rGO, (C) Ni_{0.31}Co_{0.69}S₂/rGO, (D) Ni_{0.26}Co_{0.74}S₂/rGO and (E) CoS₂/rGO. (F) The corresponding catalytic current of different modified electrodes at different potentials.

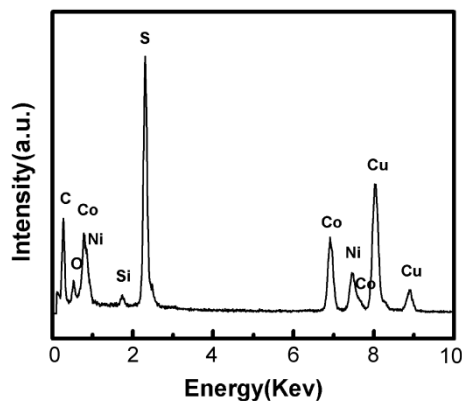


Fig.S2 EDS pattern of the as-prepared Ni_{0.31}Co_{0.69}S₂/rGO sample-c.

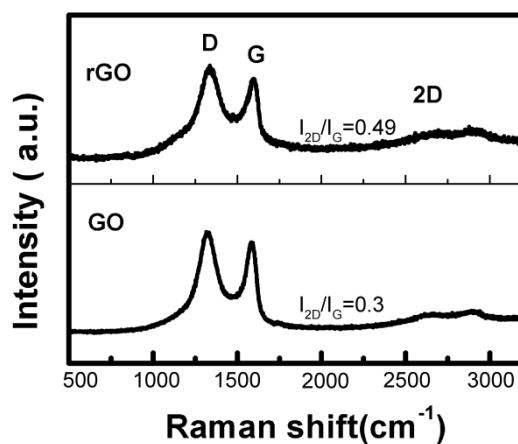


Fig. S3 Raman spectra of the GO and rGO samples.

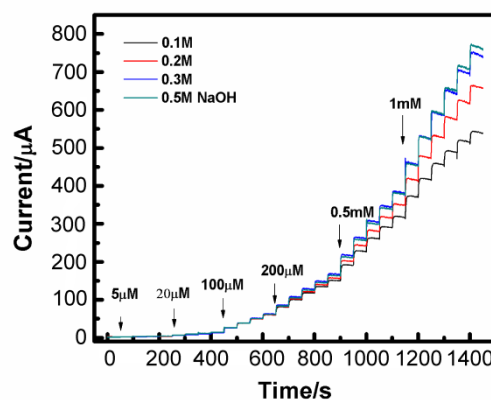


Fig.S4 Amperometric responses of the Ni_{0.31}Co_{0.69}S₂/rGO modified electrode in different concentration of (0.1, 0.2, 0.3 and 0.5) NaOH solution to successive additions of different concentration glucose solution from 5 μM to 10 mM.

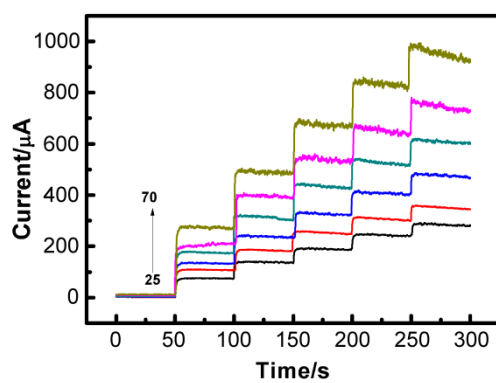


Fig.S5 Amperometric responses of the Ni_{0.31}Co_{0.69}S₂/rGO modified electrode at different temperature (25, 30, 40, 50, 60 and 70 °C) to successive additions of 0.5mM glucose.