

**Electronic Supplementary Material****Enhancing enzyme-free glucose detection with three-dimensional NiCo<sub>2</sub>O<sub>4</sub> nanowire arrays wrapped with NiCo<sub>2</sub>O<sub>4</sub> nanosheets**

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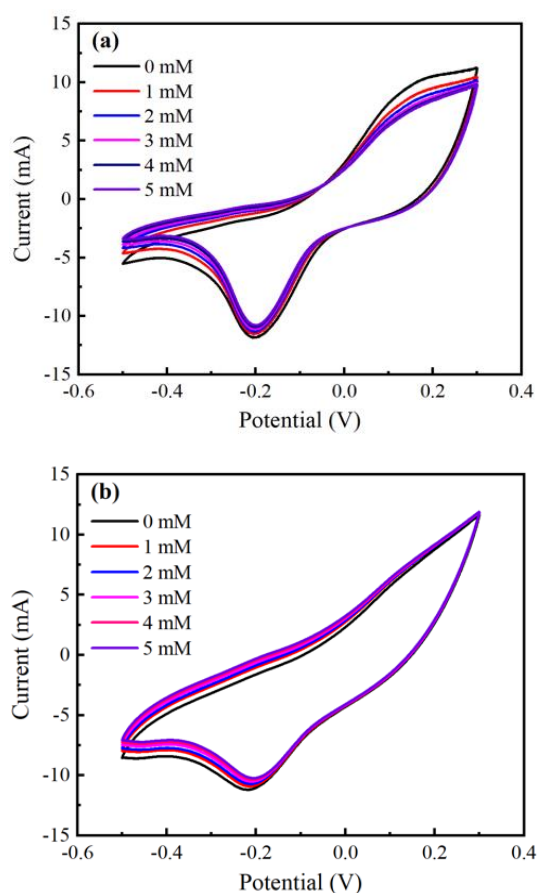
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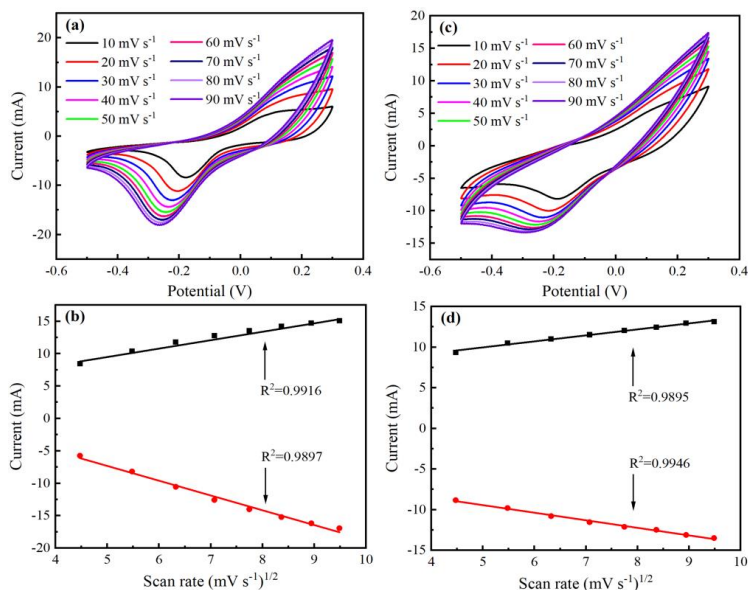
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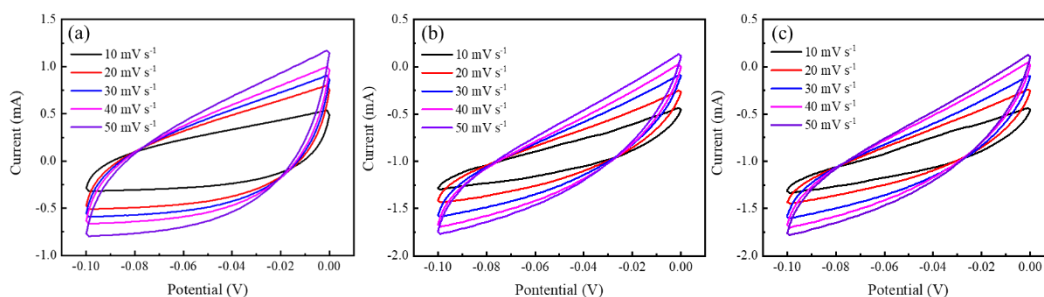
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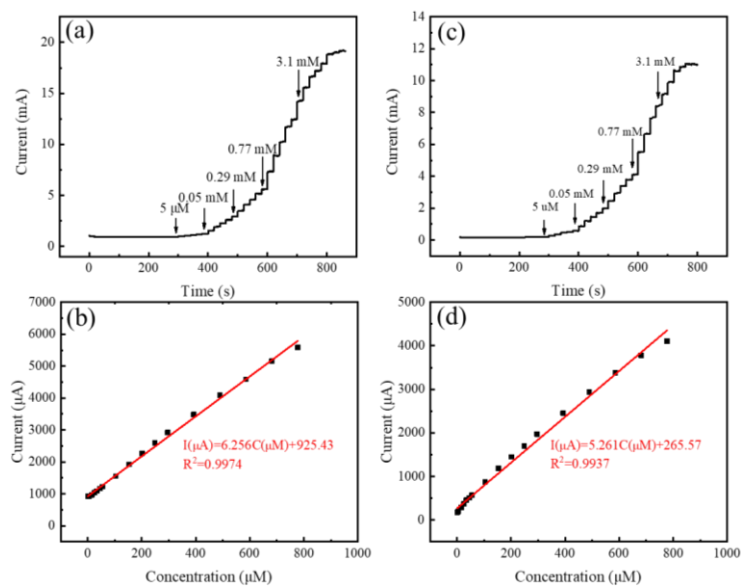
**Fig. S1** CV response curves of (a) NiCo<sub>2</sub>O<sub>4</sub> nanosheet and (b) NiCo<sub>2</sub>O<sub>4</sub> nanowire electrodes (vs. Ag/AgCl) at various concentrations of glucose recorded at a scan rate of 50 mV·s<sup>-1</sup>.



**Fig. S2** CV response curves of (a) NiCo<sub>2</sub>O<sub>4</sub> nanowire and (c) NiCo<sub>2</sub>O<sub>4</sub> nanosheet electrodes in the 1.0 mmol·L<sup>-1</sup> glucose solution at different scan rates. Plots of anodic (black line) and cathodic (red line) peak currents vs. the square root of the scan rate for (b) NiCo<sub>2</sub>O<sub>4</sub> nanowire and (d) NiCo<sub>2</sub>O<sub>4</sub> nanosheet electrodes.



**Fig. S3** CV curves of (a) NiCo<sub>2</sub>O<sub>4</sub>@NiCo<sub>2</sub>O<sub>4</sub>, (b) NiCo<sub>2</sub>O<sub>4</sub> nanowire, and (c) NiCo<sub>2</sub>O<sub>4</sub> nanosheet electrodes in 0.1 mol·L<sup>-1</sup> NaOH at different scan rates.



**Fig. S4** (a)(c) Amperometric current responses for NiCo<sub>2</sub>O<sub>4</sub> nanowire (left) and NiCo<sub>2</sub>O<sub>4</sub> nanosheet (right) electrodes at various glucose concentrations in 0.1 mol·L<sup>-1</sup> NaOH at 0.55 V. (b)(d) Calibration plots of current vs. glucose concentration for NiCo<sub>2</sub>O<sub>4</sub> nanowire (left) and NiCo<sub>2</sub>O<sub>4</sub> nanosheet (right) electrodes.