

SUPPORTING INFORMATION

Non-Enzymatic Glucose Detection Based on NiS Nanoclusters @ NiS Nanosphere in Human Serum and Urine

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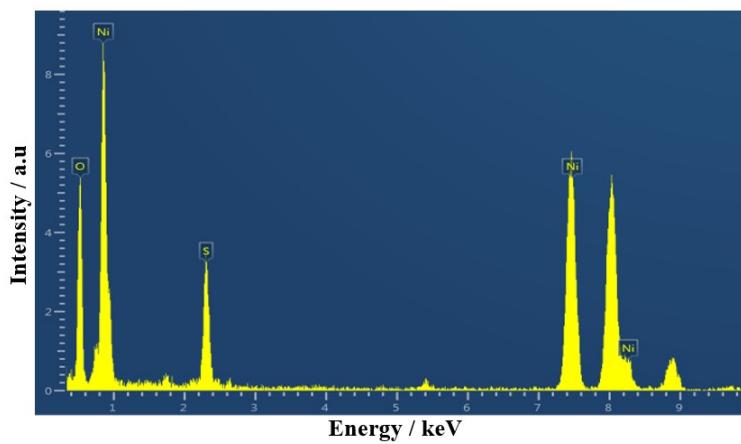


Fig. S1. EDX spectrum of the obtained NC-NiS@NS-NiS|NF.

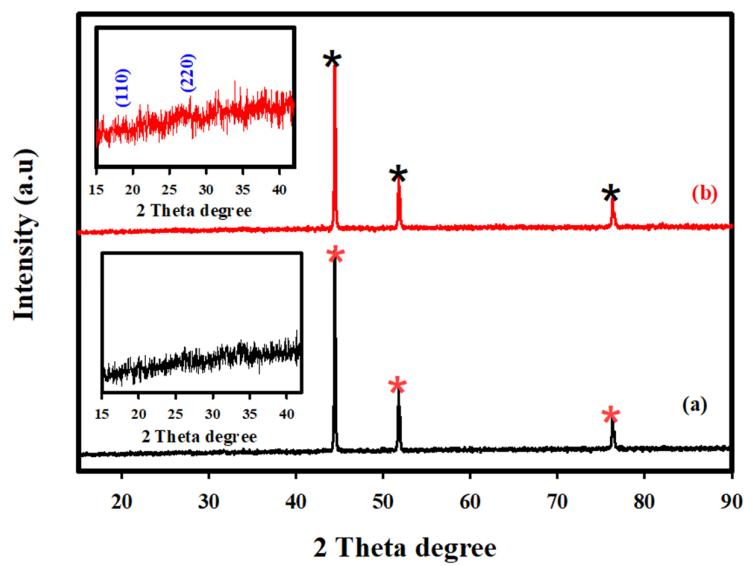


Fig. S2. XRD patterns of bare NF and NC-NiS@NS-NiS|NF electrodes.

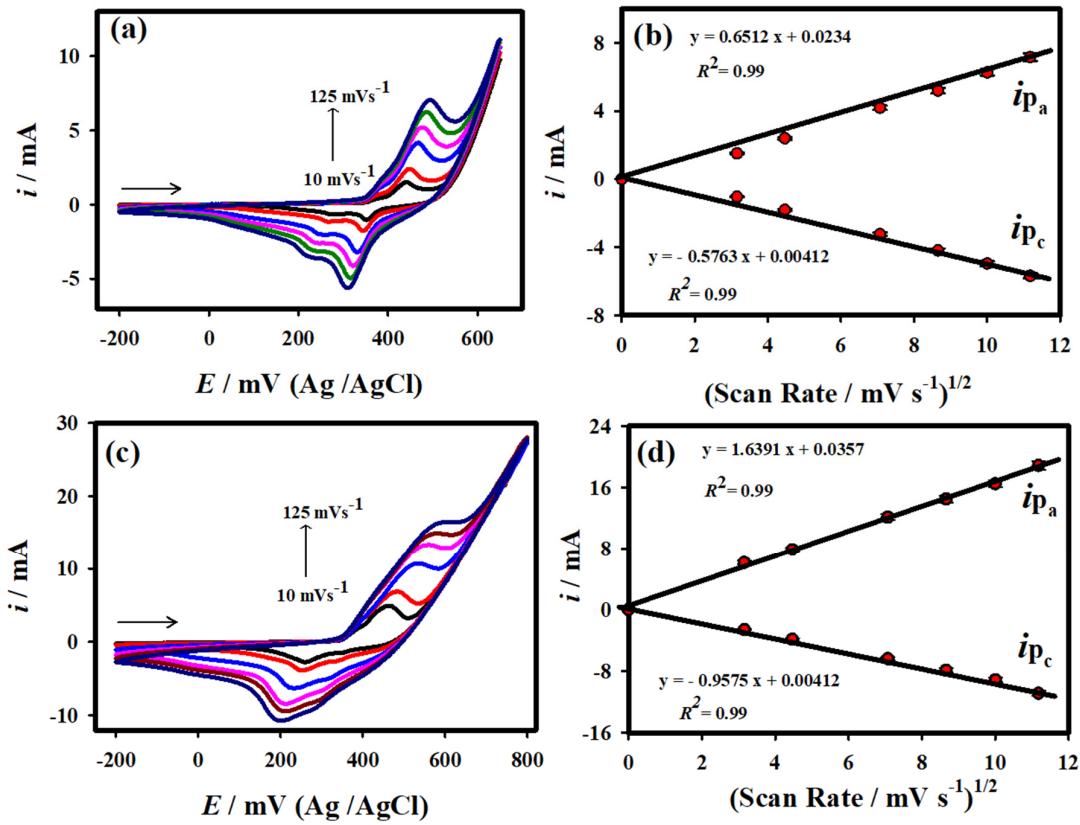


Fig. S3. CV curves of the NF (a), NC-NiS@NS-NiS|NF (c) recorded in 1.0 M KOH at different scan rates. The corresponding linear plot of i_{p_a} and i_{p_c} for bare NF (b) and NC-NiS@NS-NiS|NF electrodes (d).

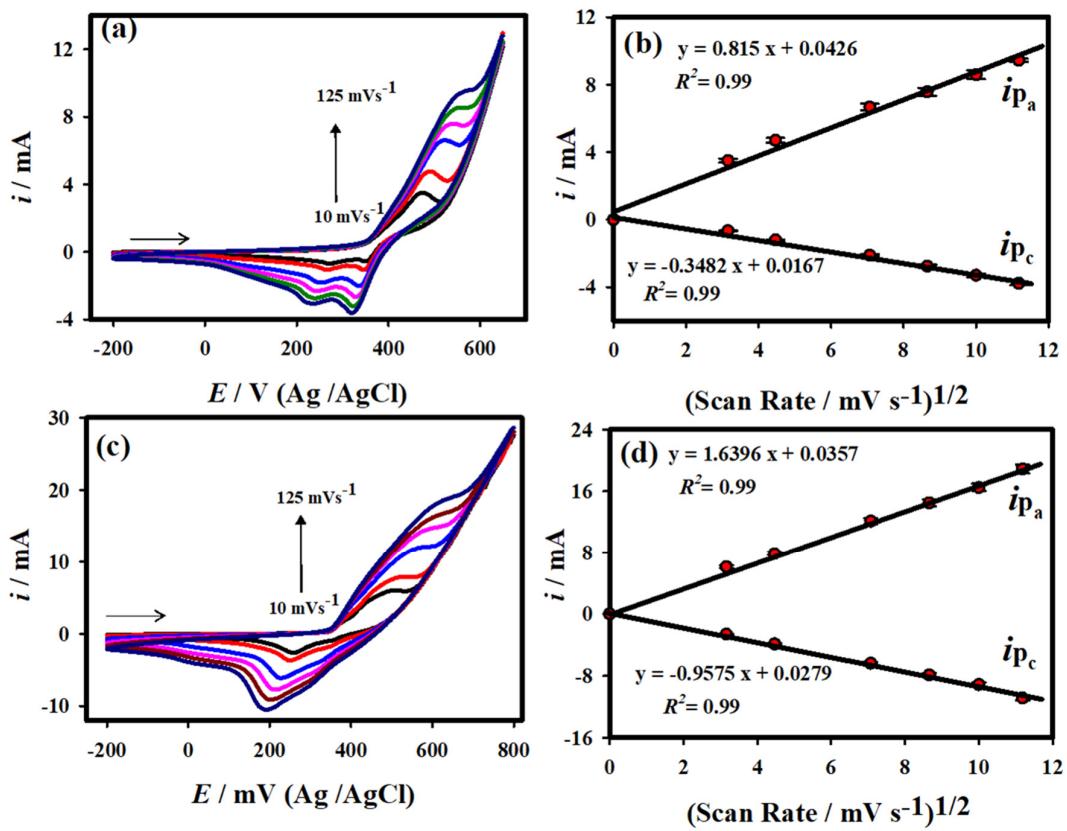


Fig. S4. CV curves of the NF electrode (a) and NC-NiS@NS-NiS|NF electrode (c) recorded in 10.0 mM glucose + 1.0 M KOH at different scan rates. The corresponding linear plot of i_{p_a} and i_{p_c} for bare NF (b) and NC-NiS@NS-NiS|NF electrodes (d).

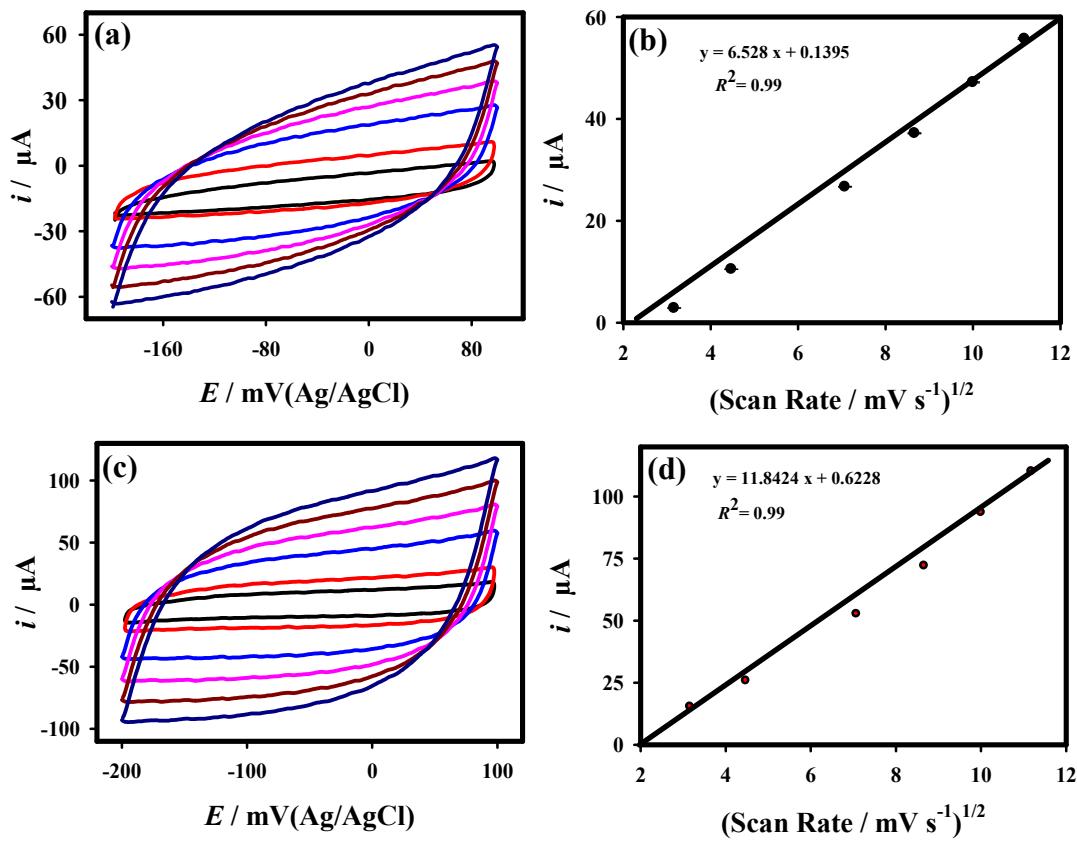


Fig. S5. (a) CV curves of the bare NF (a), and NC-NiS@NS-NiS|NF (c) electrodes recorded at various scan rates, starting from 10 mV s^{-1} to 125 mV s^{-1} in 1.0 M KOH . (b) The plot of anodic currents *vs* the square root of the scan rates for bare NF (b), and NC-NiS@NS-NiS|NF (d) electrodes.

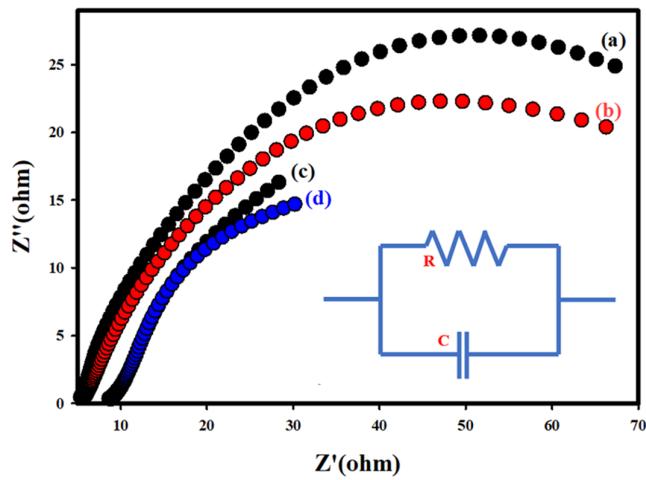


Fig. S6. EIS spectra of the bare NF and NC-NiS@NS-NiS|NF electrodes without glucose (black curve) and with 10 mM of glucose (red curve for bare NF & blue curve for NC-NiS@NS-NiS|NF electrodes).