

Supplementary information

Cost-effective preparation of cobalt oxide/nickel oxide composite for the efficient non-enzymatic electrochemical detection of uric acid

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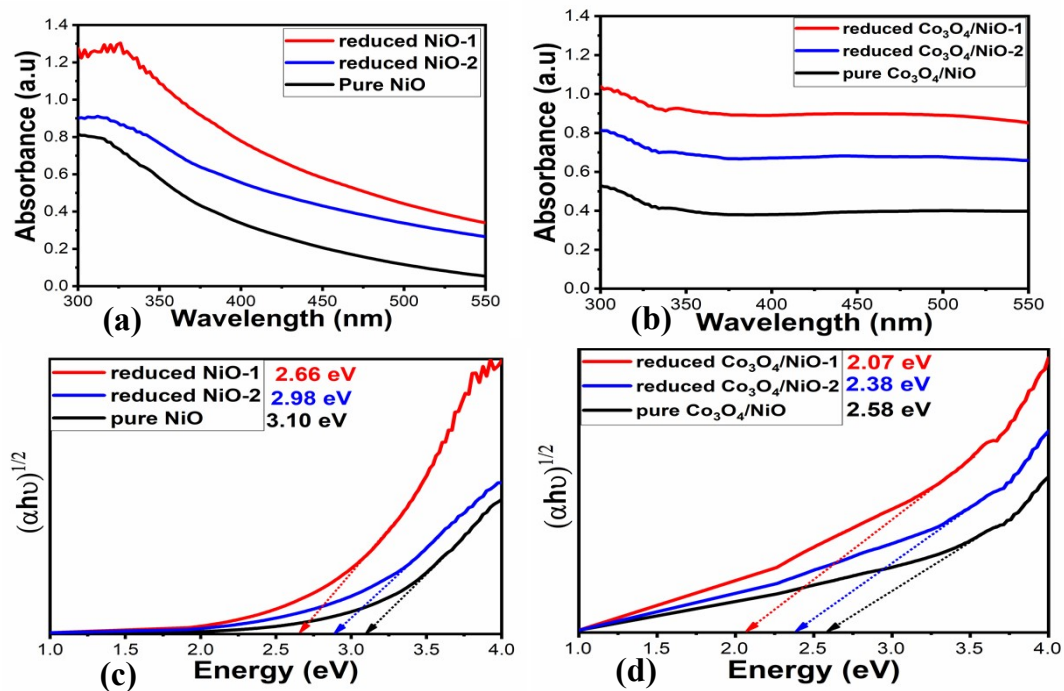


Figure (S1): (a) UV–visible spectra of pure NiO and reduced NiO nanostructures, (b) UV–visible spectra of pure Co₃O₄/NiO and reduced Co₃O₄/NiO composite, (c-d) their corresponding Tauc's plots for the calculation of optical band gap.

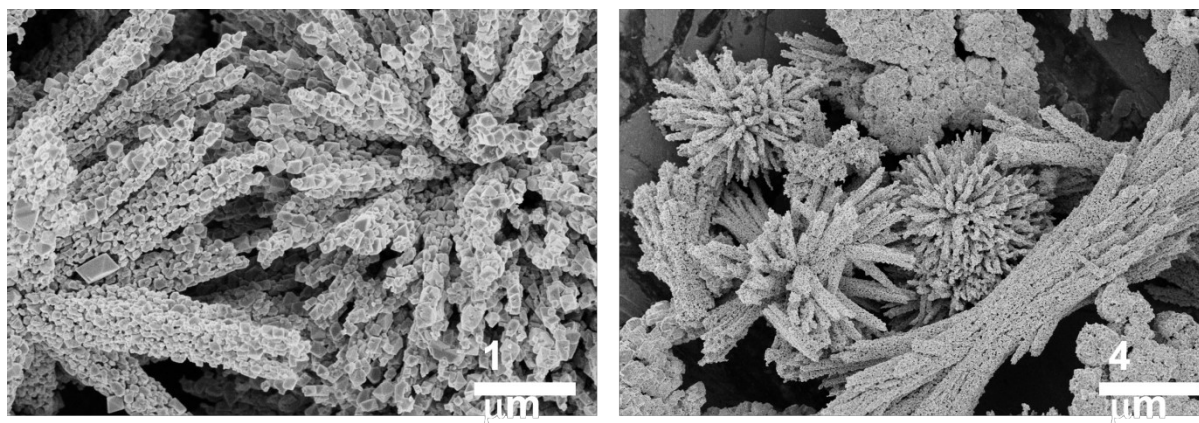


Figure (S2): (a-b) SEM images of bare Co₃O₄ at different magnifications

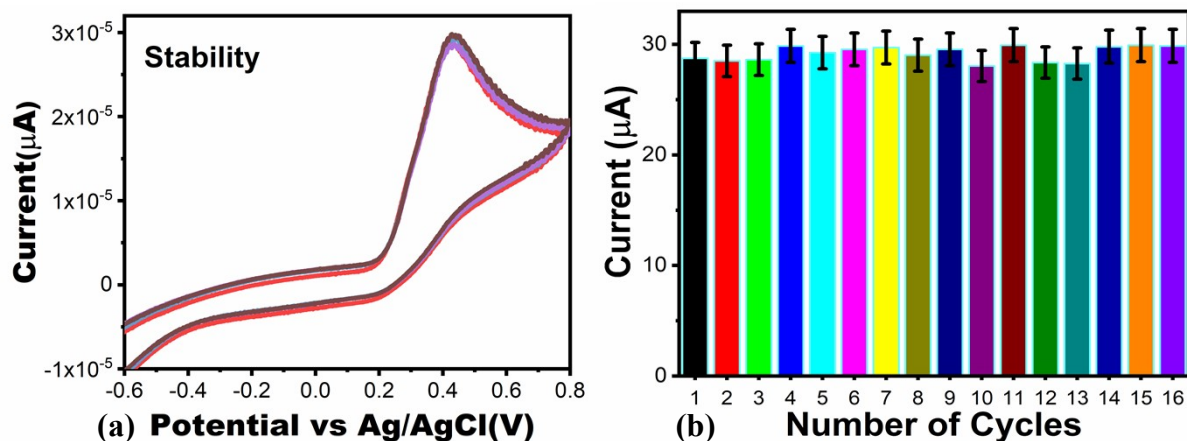


Figure (S3): (a) Repeatable 16 CV curves at scan rate of 50 mV/s of $\text{Co}_3\text{O}_4/\text{NiO}$ composite in 0.1 mM UA prepared in 0.1 M PBS of pH 7.3, (b) Bar graph illustrating the reproducibility of 16 independent modified electrodes.

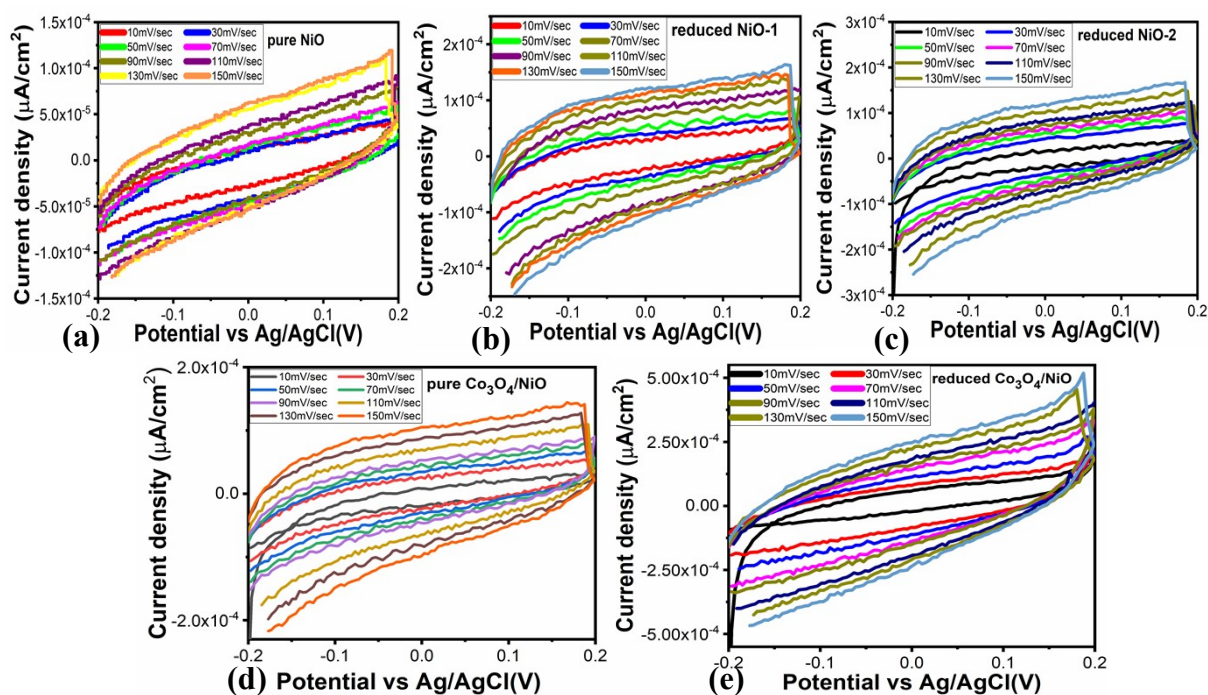


Figure (S4): (a-c) Cyclic voltammetry measured for pure NiO, reduced NiO-1 and reduced NiO-2 in 0.1 M PBS of pH 7.3 at different scan rates, (d) and (e) Cyclic voltammetry measured

for pure $\text{Co}_3\text{O}_4/\text{NiO}$, reduced $\text{Co}_3\text{O}_4/\text{NiO}$ -1 composite in 0.1M PBS of pH 7.3 at different scan rates.