

Non-enzymatic Cu₂O-based Electrochemical Sensor for Non-Invasive Portable Glucose Detection

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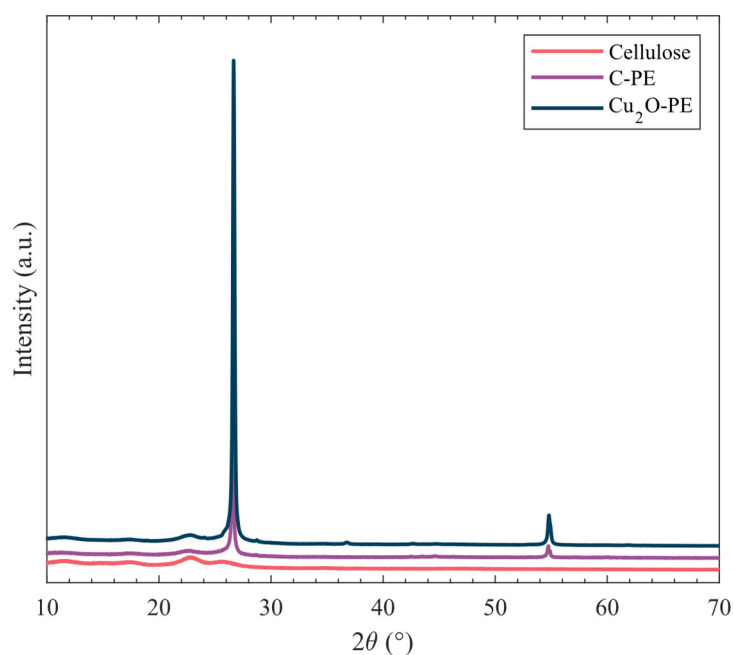


Figure S1. XRD spectrum of cellulose substrate, graphene paste printed on the cellulose substrate (C-PE), and Cu₂O PE.

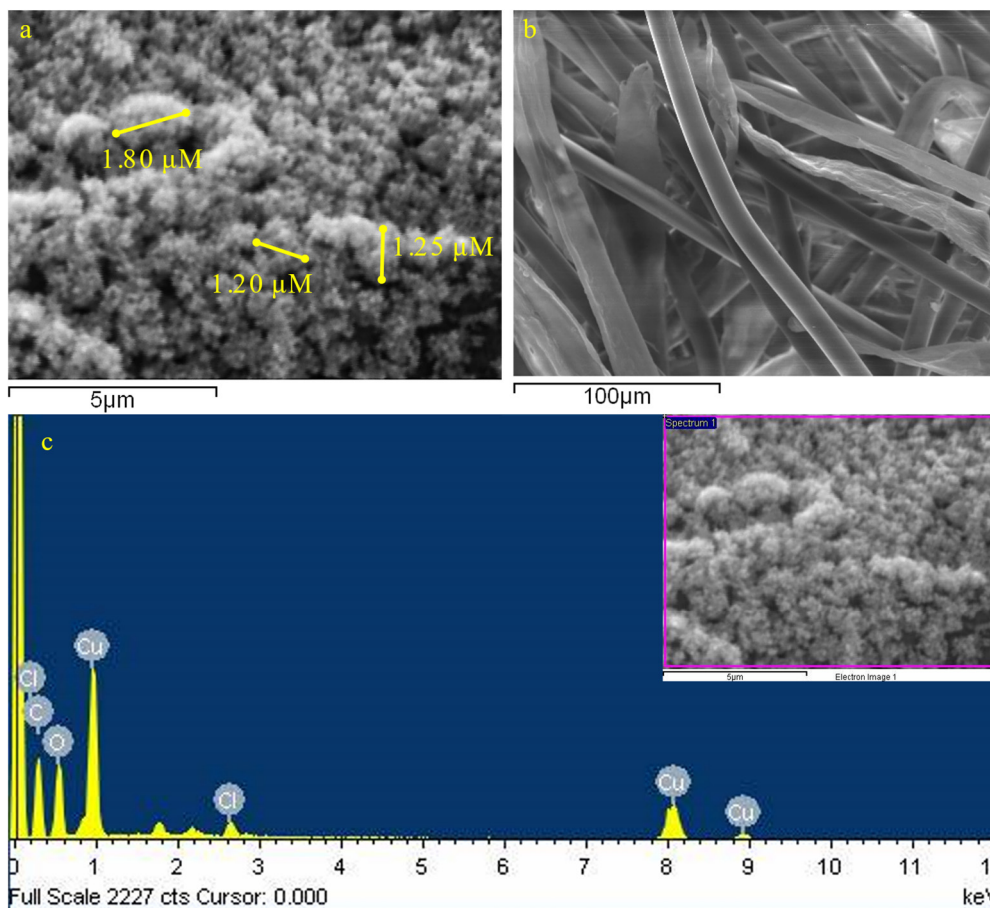


Figure S2. SEM images of the a) Cu_2O drop casted on the PEs and b) cellulose substrate. c) EDS spectrum of the Cu_2O drop casted on the PE with the SEM image inset.

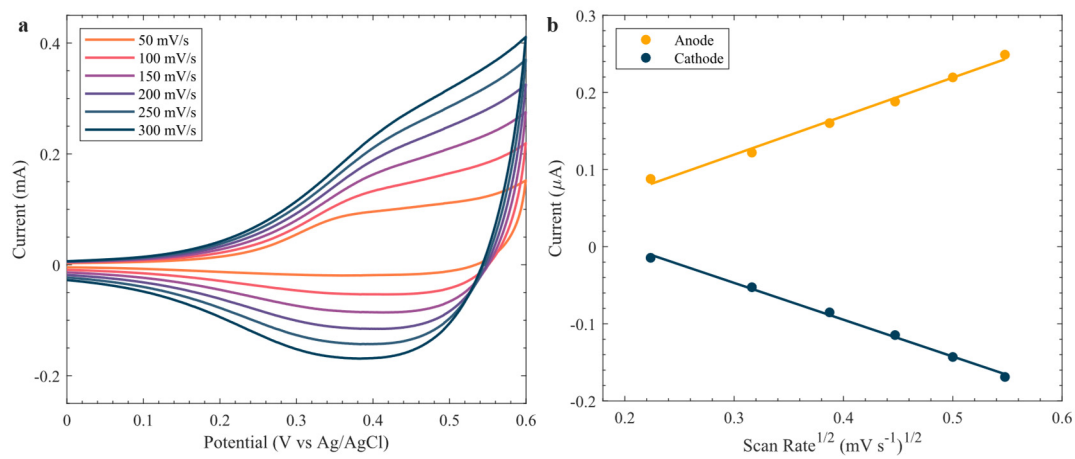


Figure S3. a) CV curves with changing scan rates (50 mV/s to 300 mV/s) of Cu_2O GCE with 1 mM glucose in 0.1 M NaOH. b) Relationship between peak current and square root of scan rate.

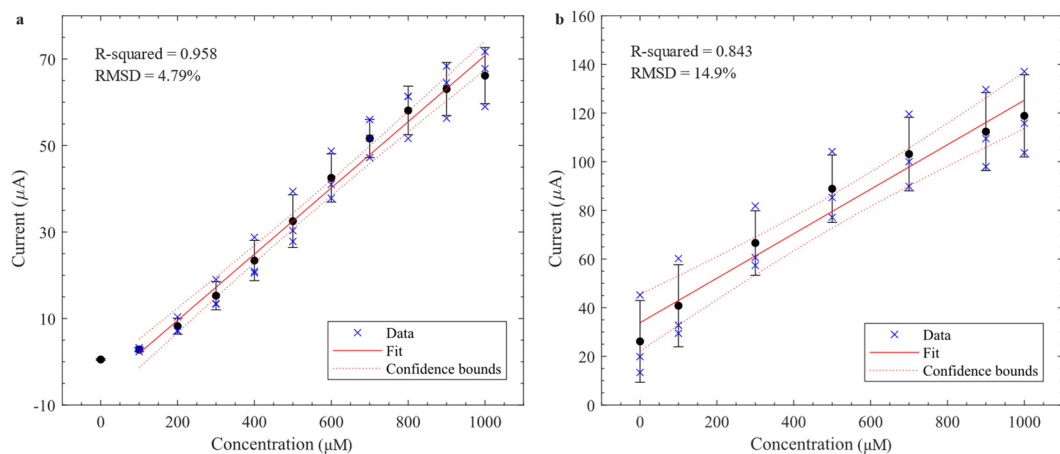


Figure S4. Unmodified calibration curves (without subtracting the baseline) of a) Cu_2O GCEs and b) Cu_2O PEs.

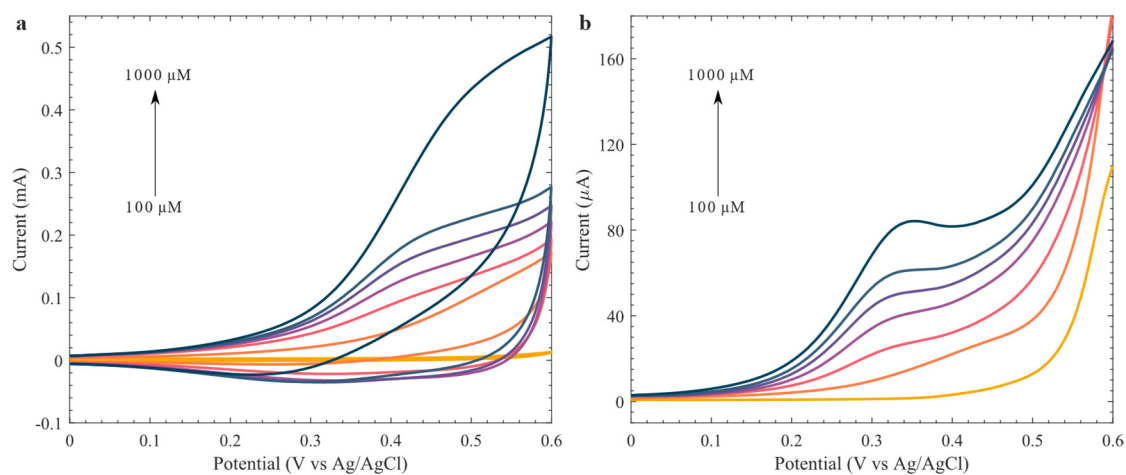


Figure S5. Unmodified calibration curves (without subtracting the baseline) of a) Cu_2O GCEs and b) Cu_2O PEs.