

OPEN New Cobalt Hydroxycarbonate-Based Material for Highly Sensitive Enzyme-Free Glucose Sensors

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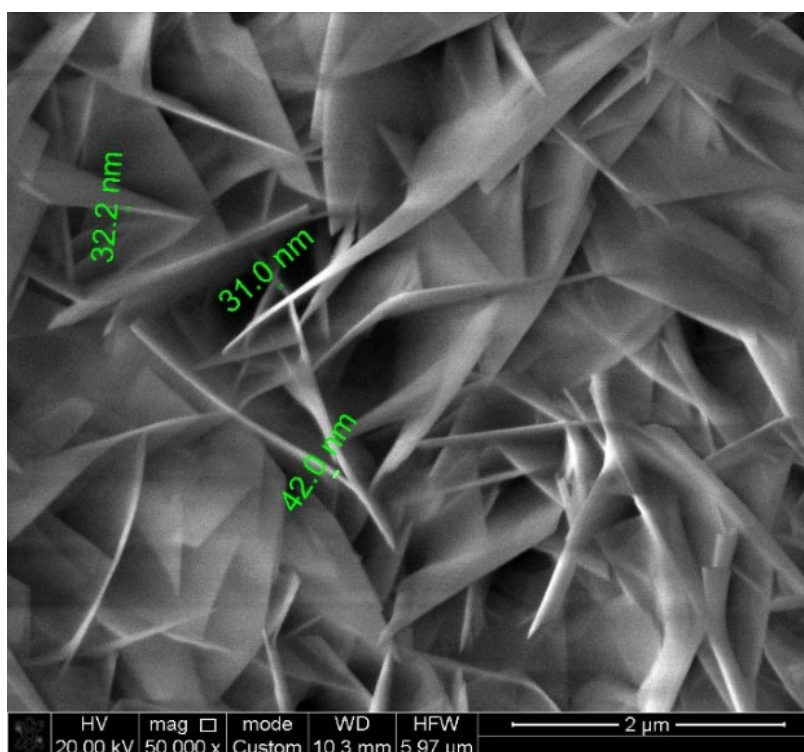


Fig. S1. SEM image for sample #2.

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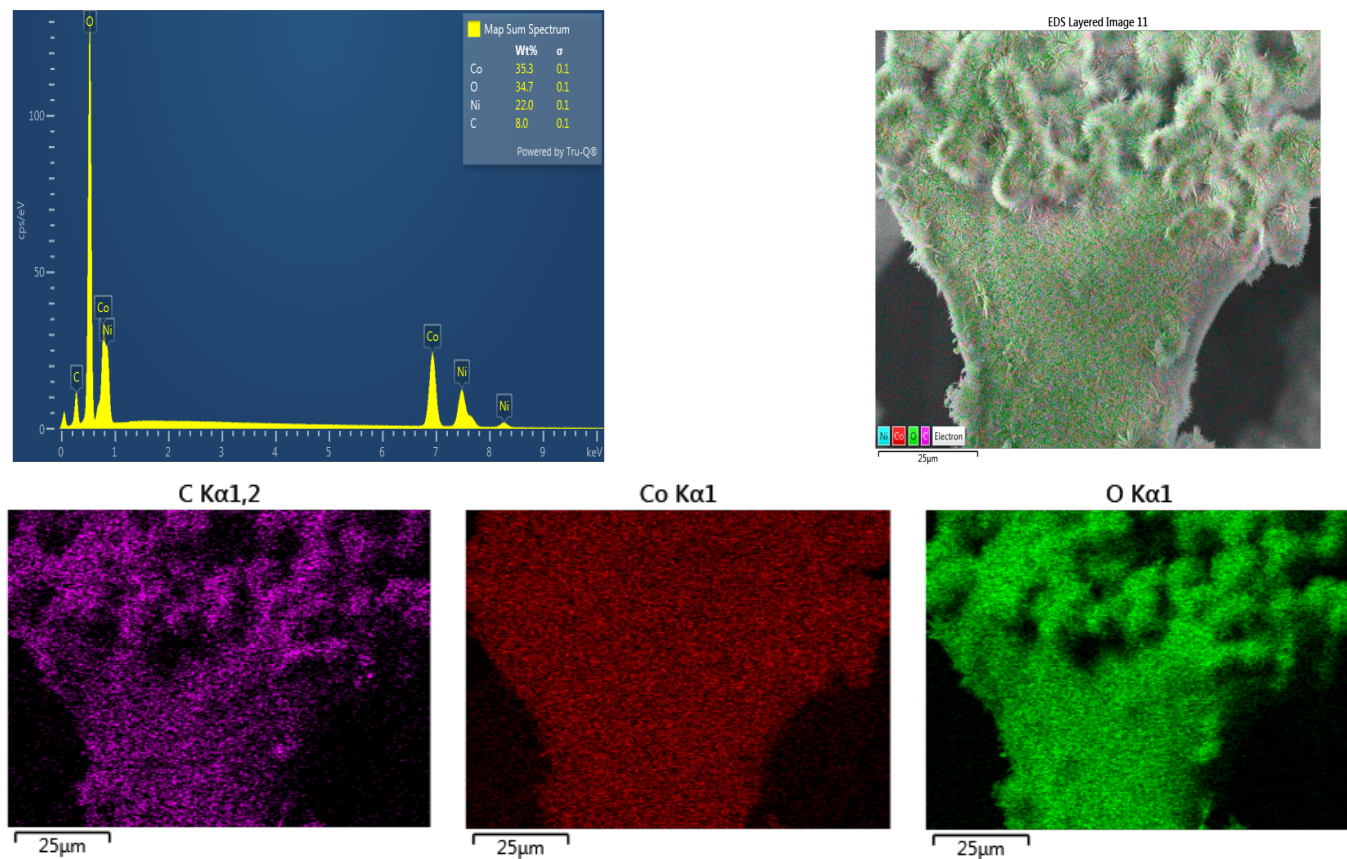


Fig. S2. EDS graph for sample #1.

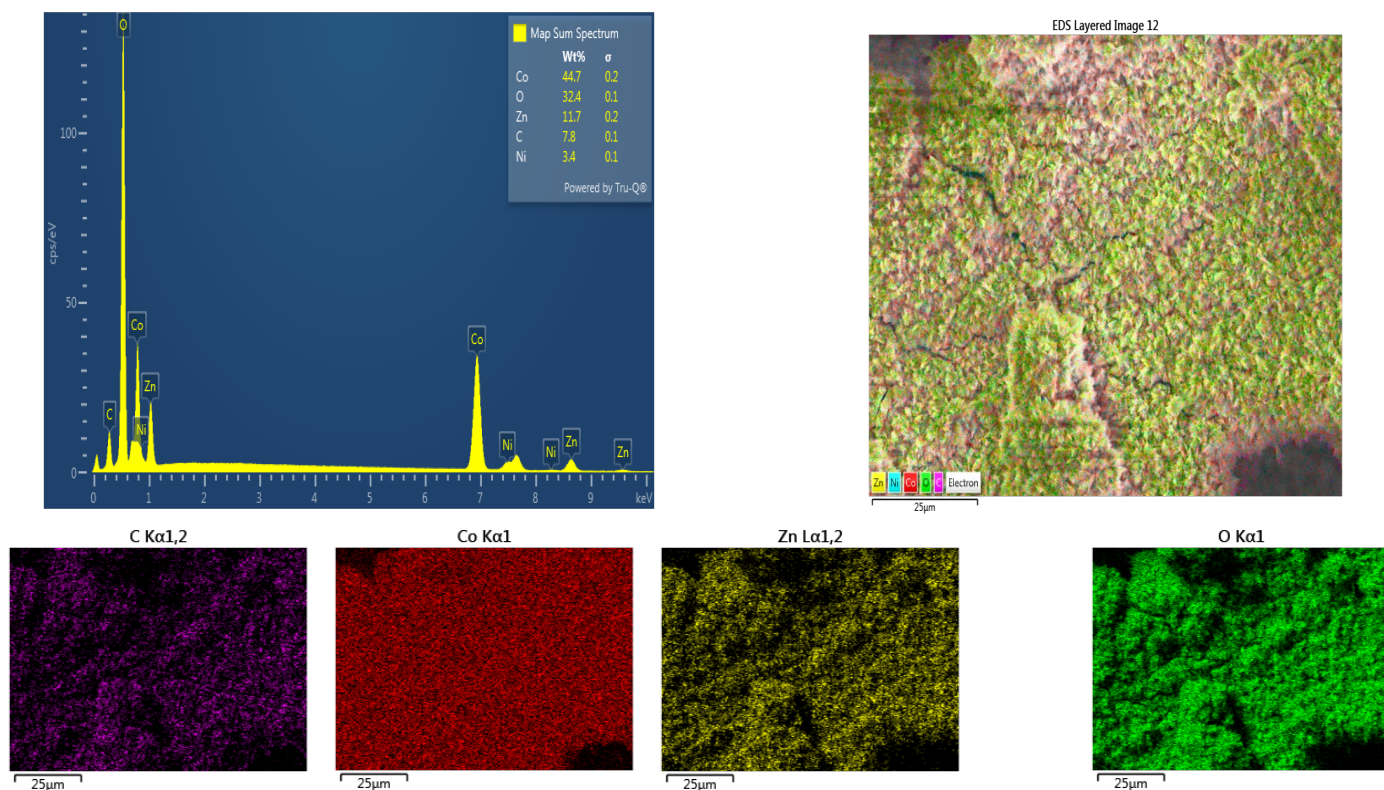


Fig. S3. EDS graph for sample #4.

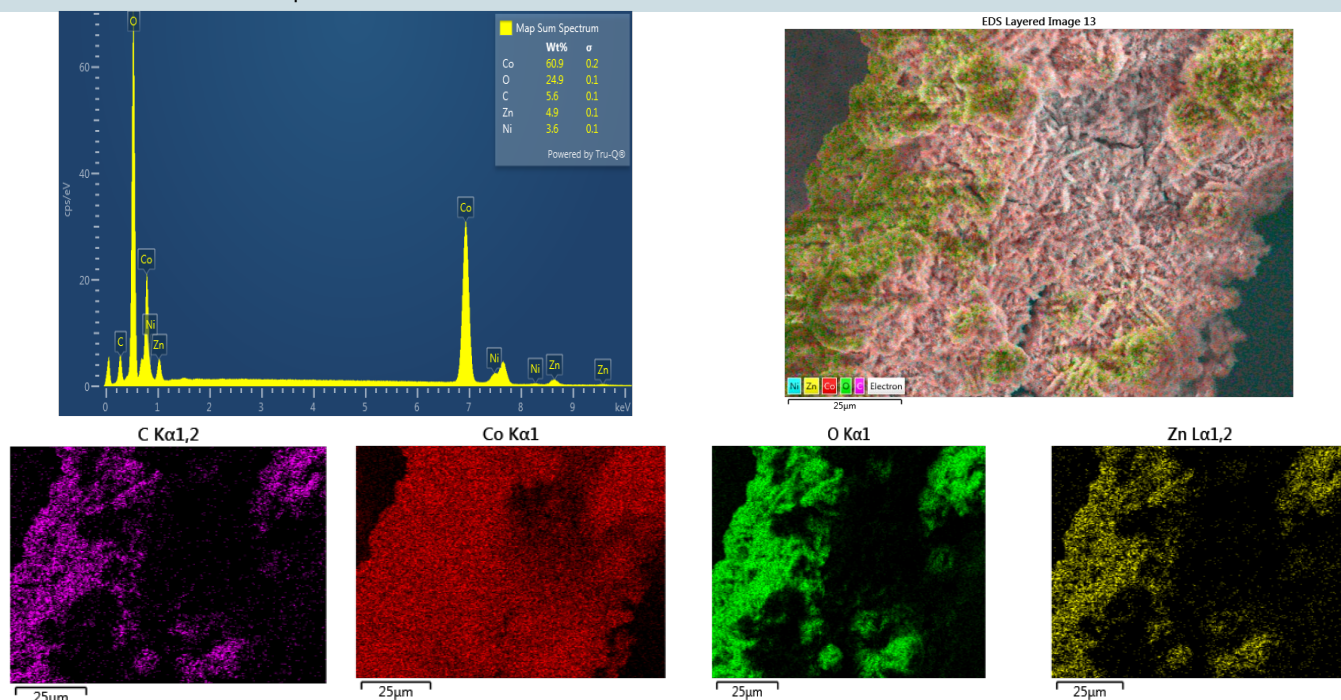
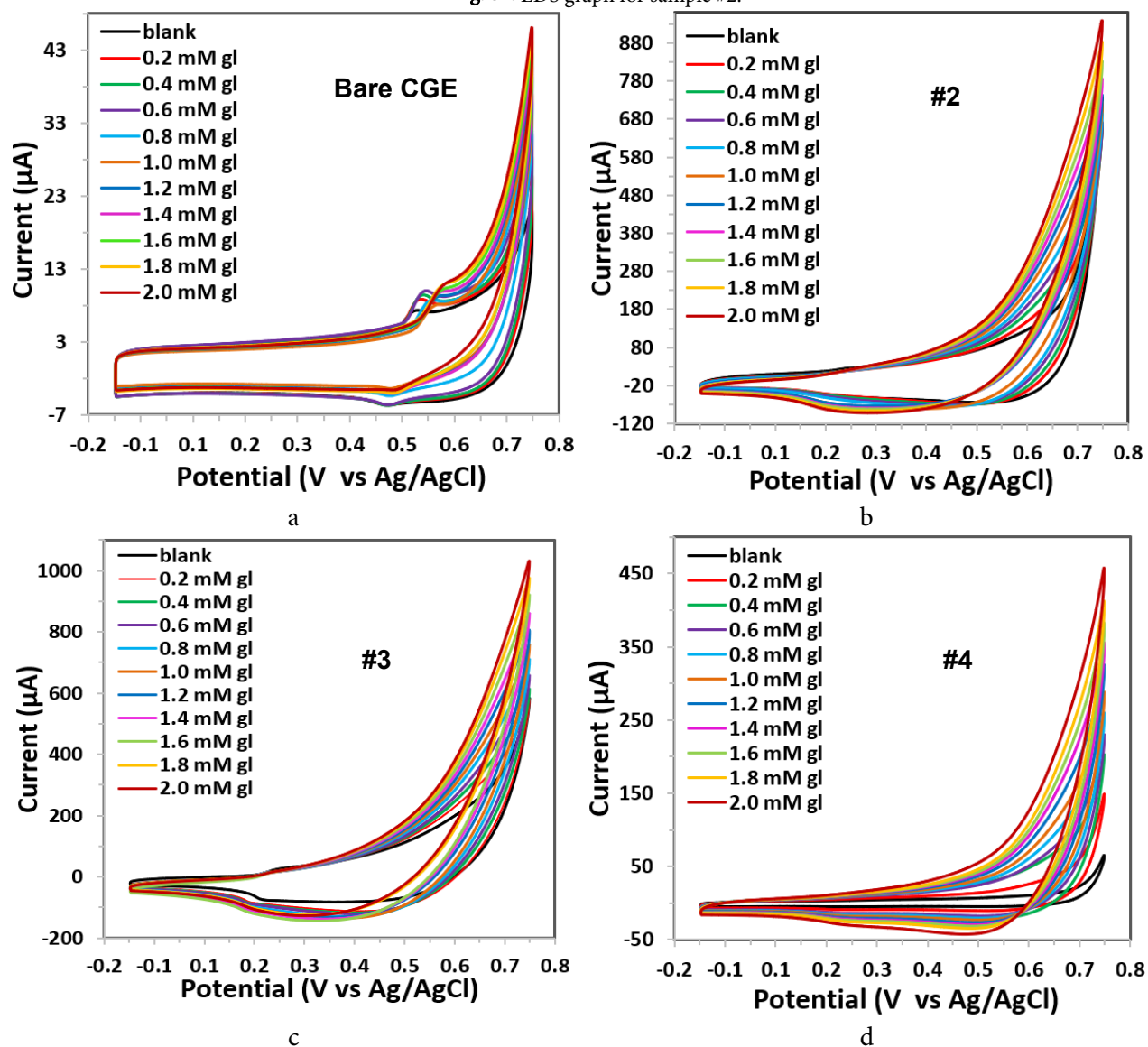
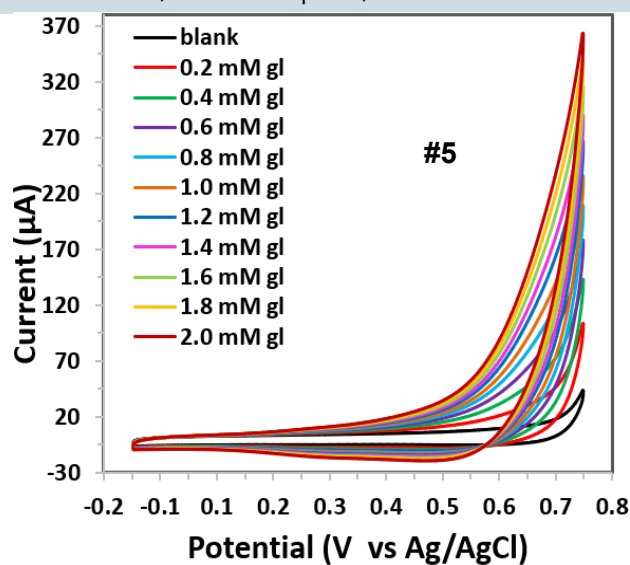
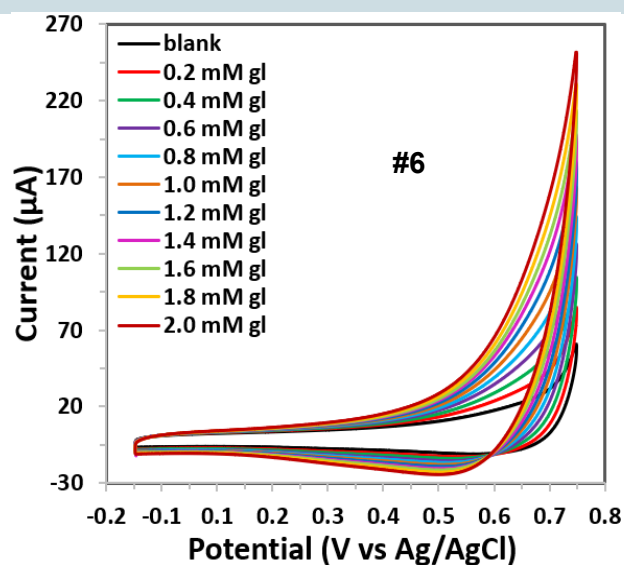


Fig. S4. EDS graph for sample #2.

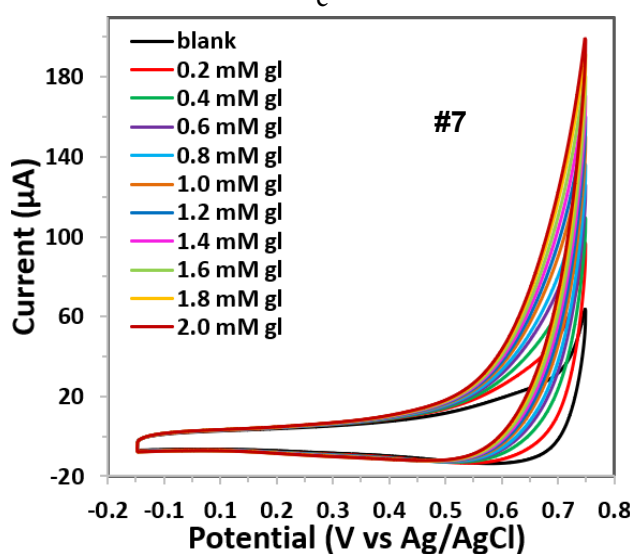




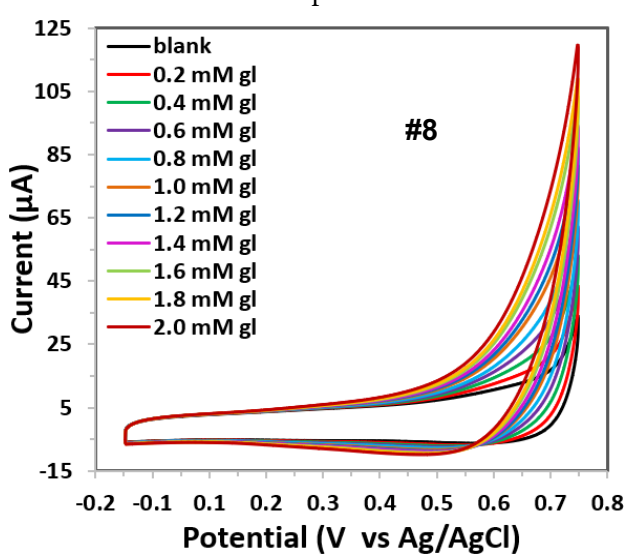
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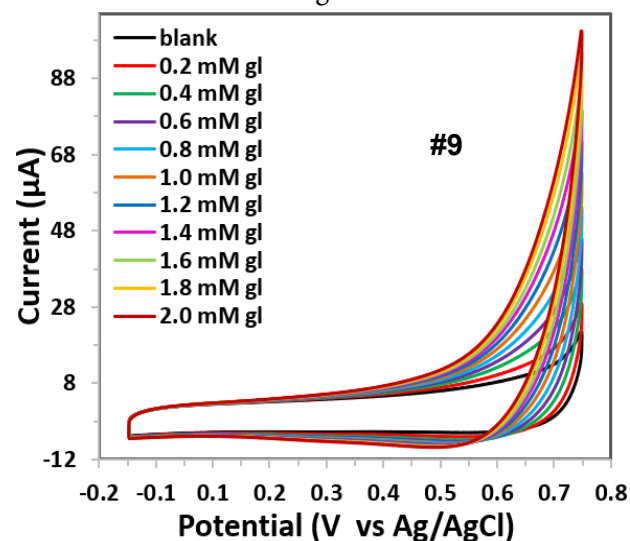
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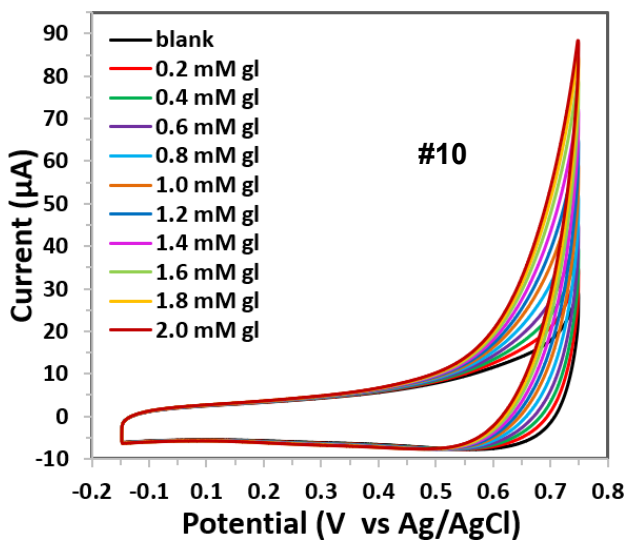
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i



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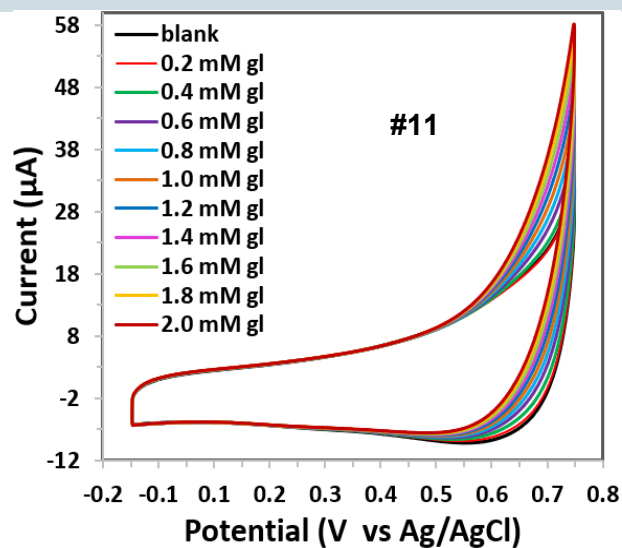


Fig. S5. Cyclic voltammetry of bare CGE and Zn doped samples: a – bare CGE, b – 0.01, sample #2, c – 0.02, sample # 3, d – 0.05, sample #4, e – 0.09, sample #5, f – 0.14, sample #6, g – 0.2, sample #7, h – 0.33, sample # 8, i – 0.5, sample # 9, j – 0.67, sample #10, k – 0.9, sample # 11.

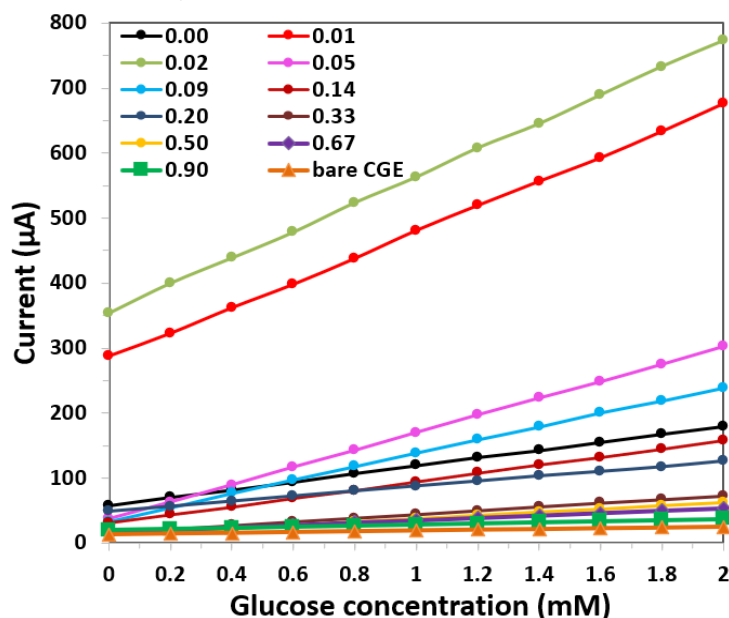


Fig. S6. Current increase at 0.6 V potential vs. Ag/AgCl as a function of glucose concentration for synthesized samples and for bare CGE electrode.

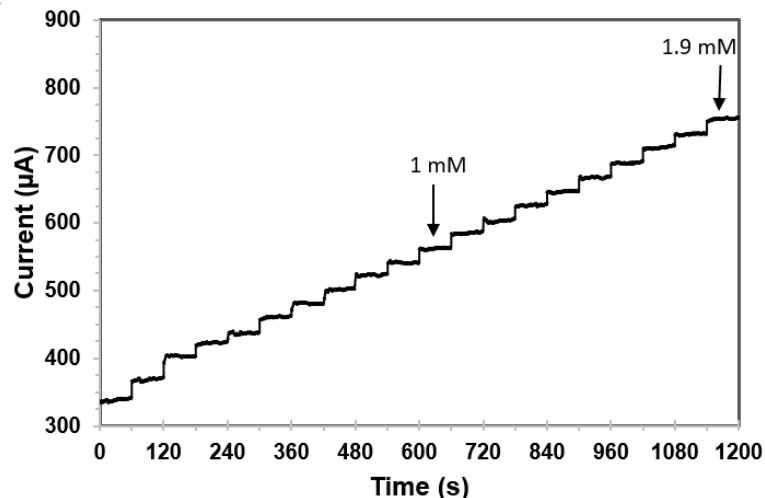


Fig. S7. Amperometric response of sample #3 with a sequential increase in glucose concentration by 0.1 mM increments.