

Electrodeposited Bi-Au Nano Composites Modified Carbon Paste Electrode for the Simultaneous Determination of Copper and Mercury

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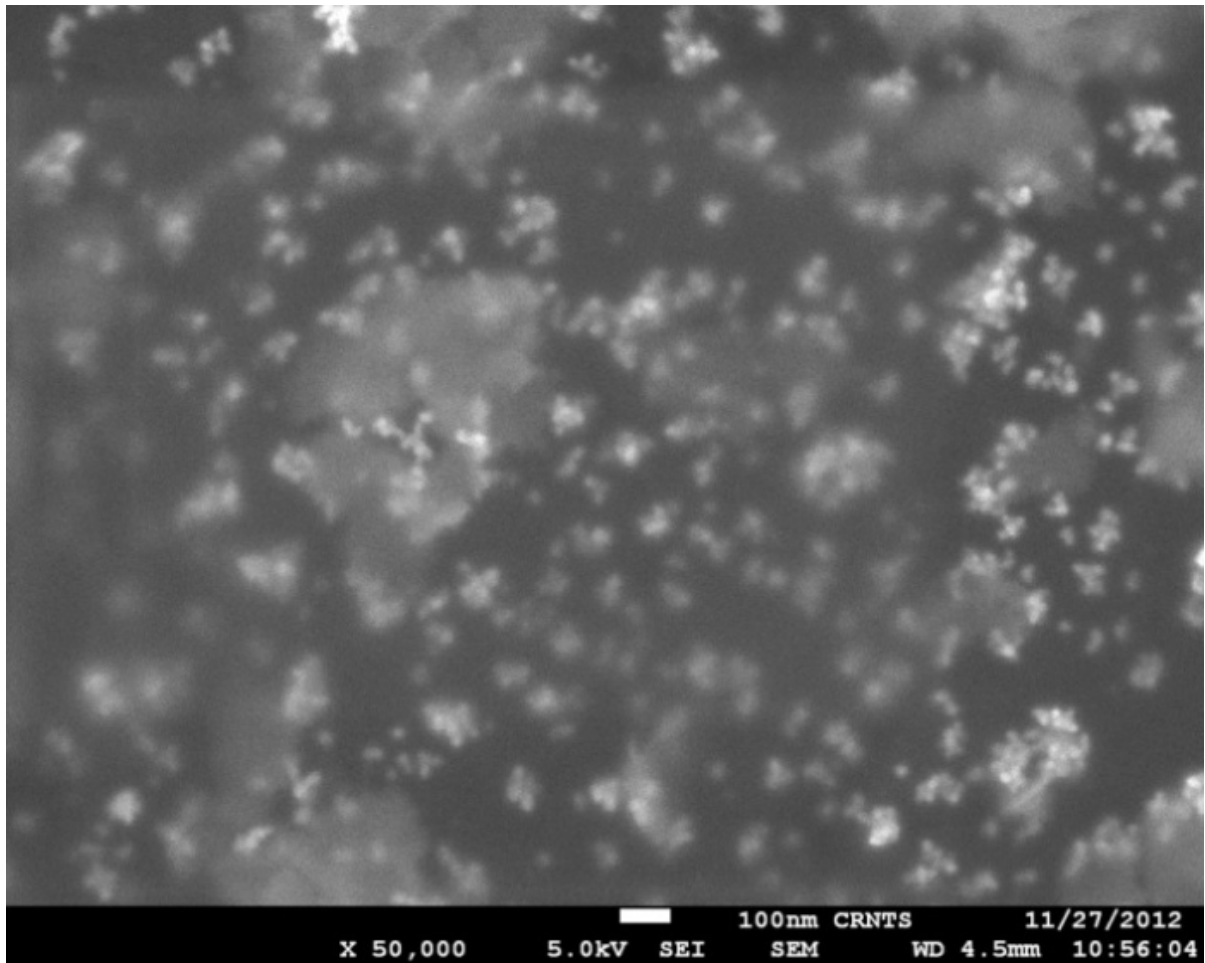


Figure S1. High resolution SEM image of the Bi-AuNPs composite material.

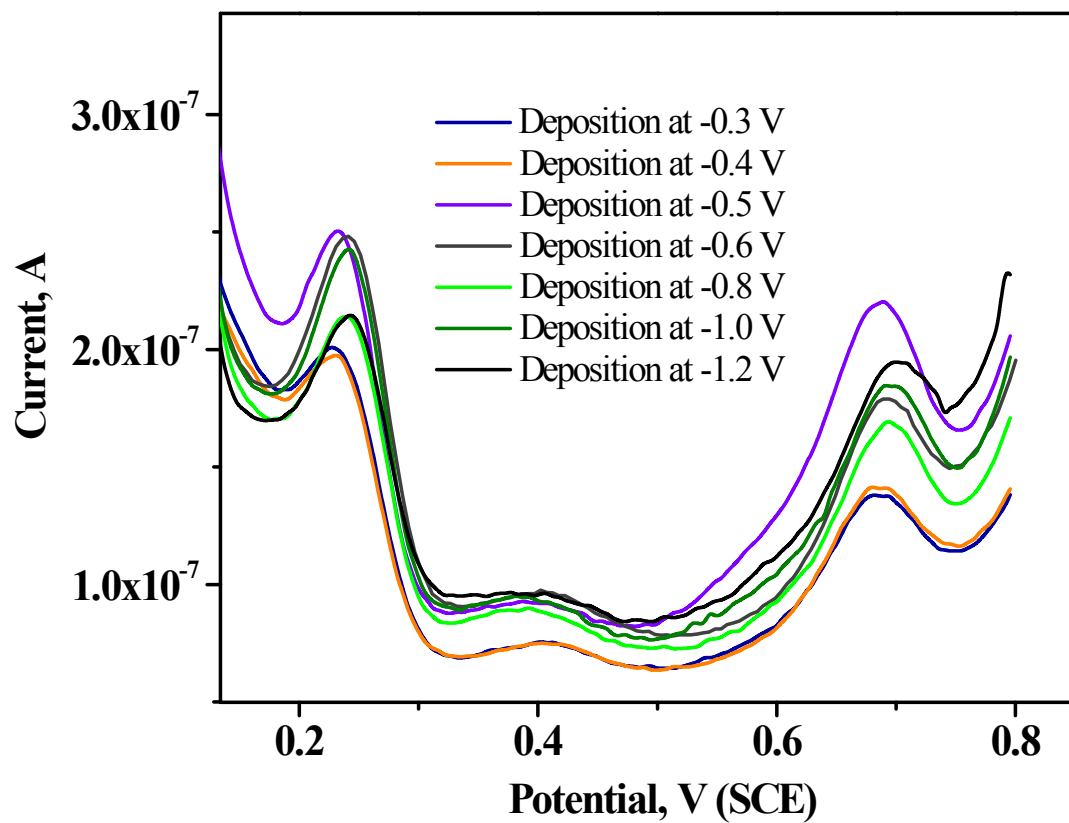


Figure S2. Effect of deposition potential on the stripping peak of $10 \mu\text{g L}^{-1} \text{Cu}^{2+}$ and $6 \mu\text{g L}^{-1} \text{Hg}^{2+}$ in 0.1 M acetate supporting electrolyte medium.

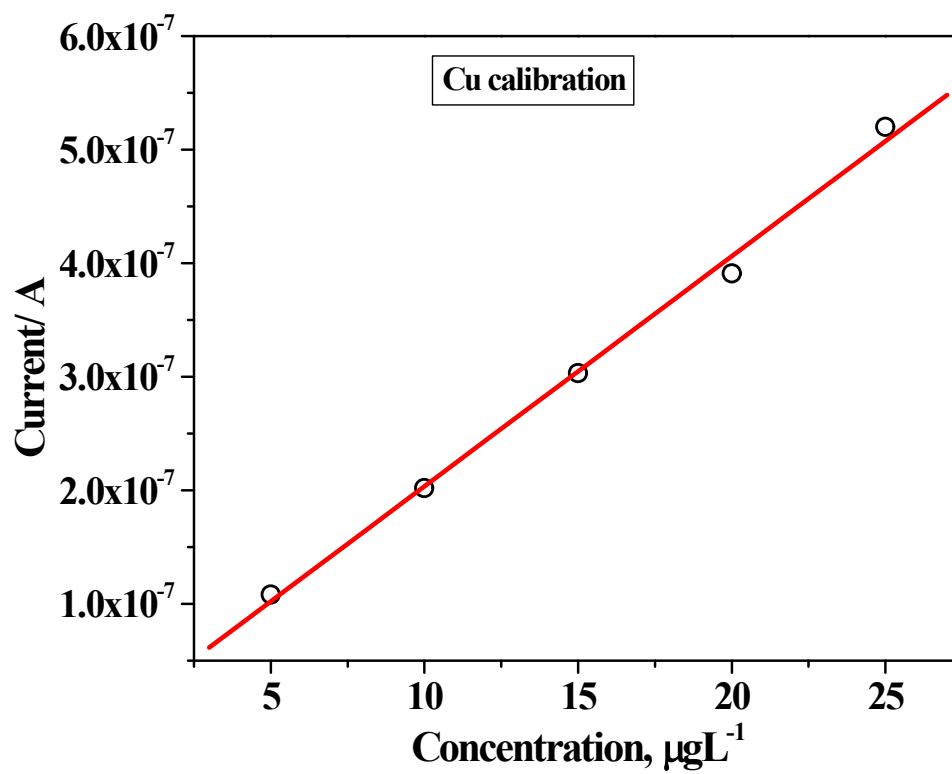


Figure S3. Linear calibration plot of Cu²⁺ using the data from Figure 6

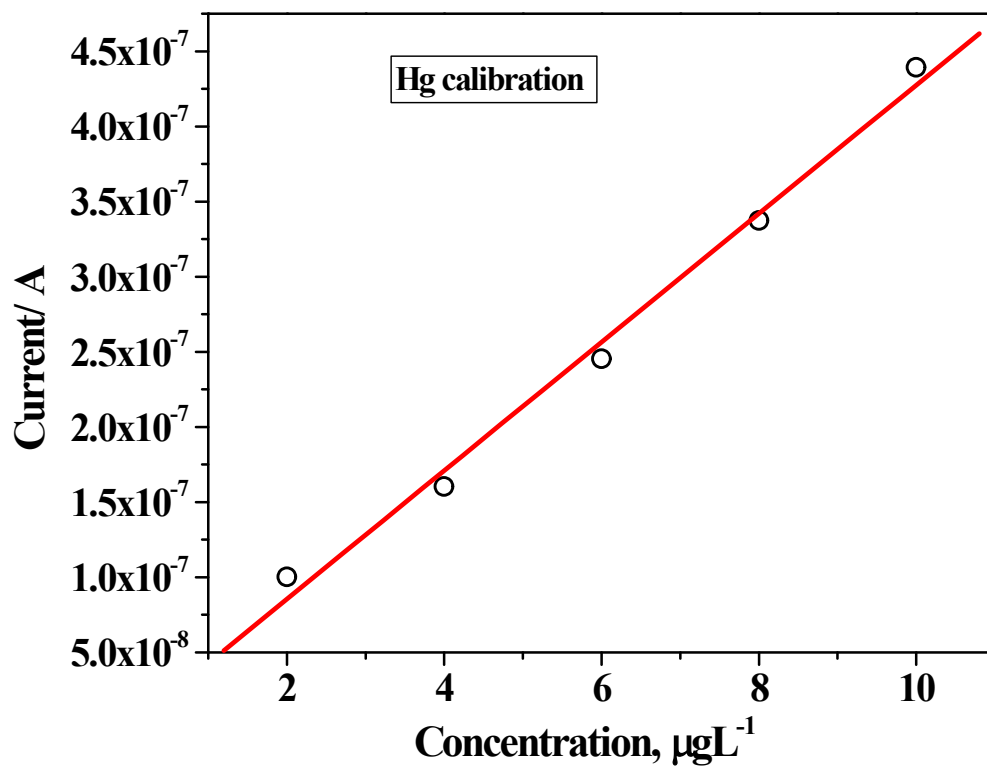


Figure S4. Linear calibration plot of Hg²⁺ using the data from Figure 6

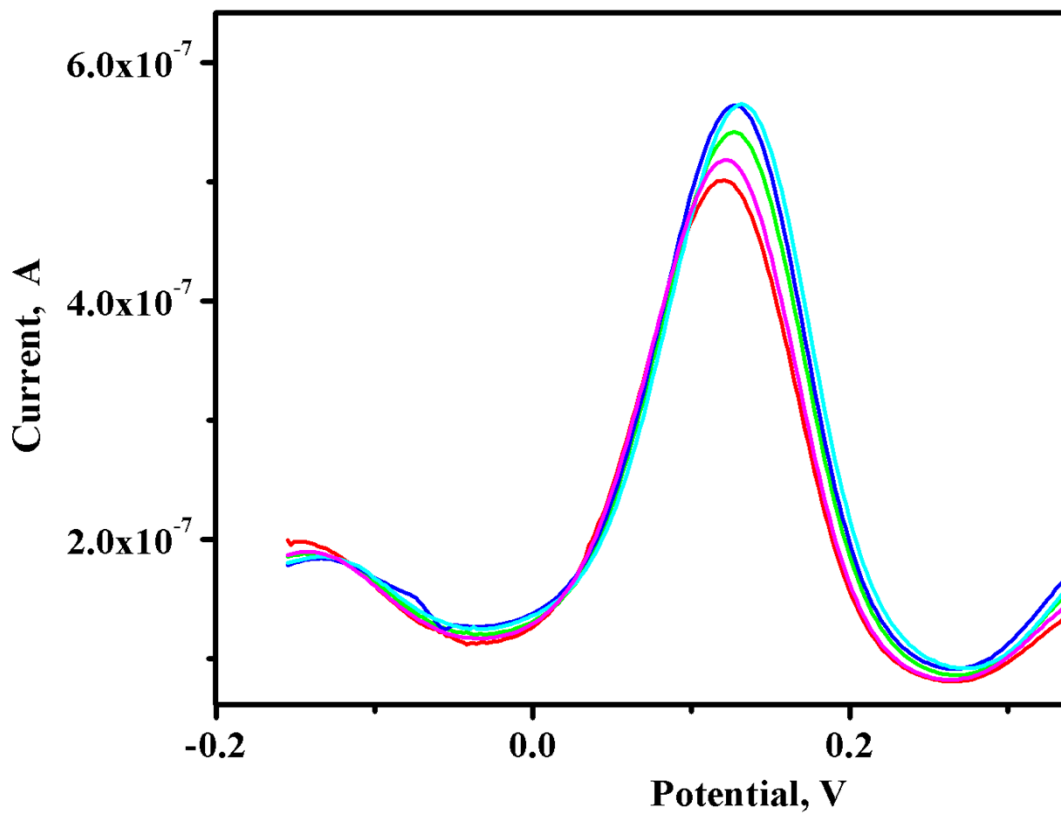


Figure S5. Voltammetric plot of Cu^{2+} using AuNPs modified electrode with successive addition of Cu^{2+} at $5 \mu\text{L}^{-1}$ each time.

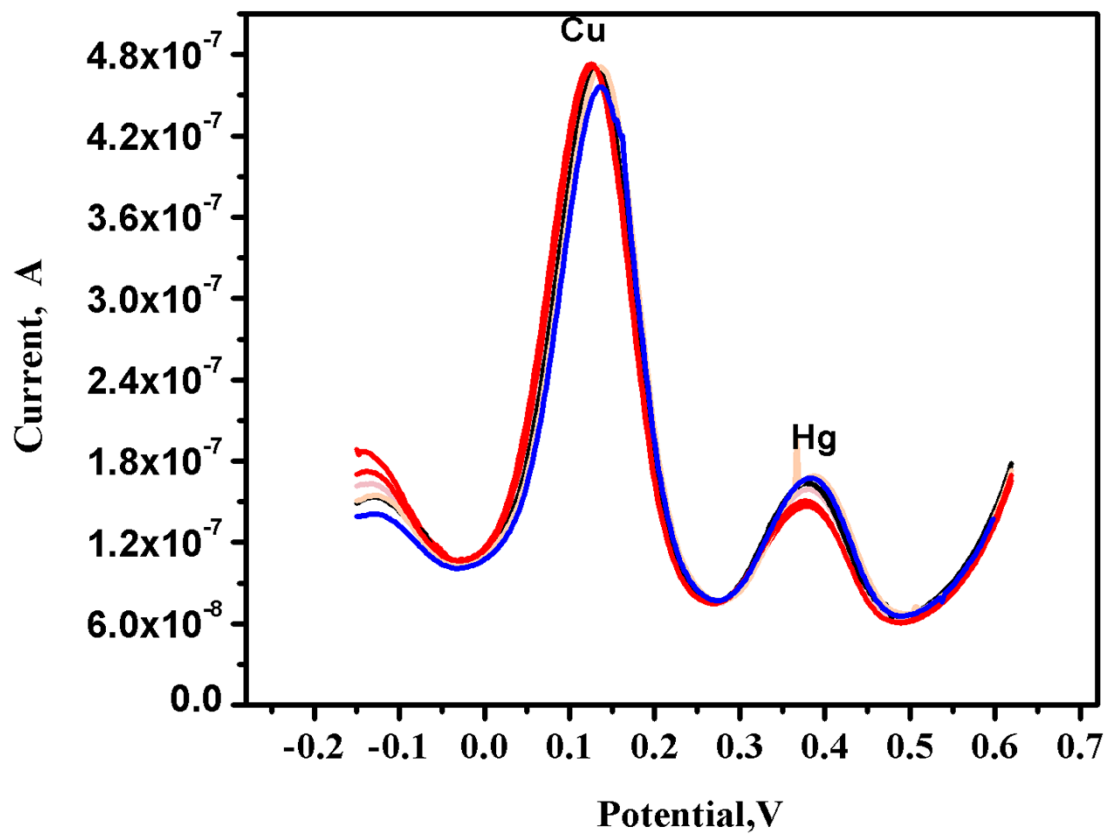


Figure S6. Repeatability of the voltammetric scans at $15 \mu\text{gL}^{-1}$ of Cu^{2+} and $2 \mu\text{gL}^{-1}$ Hg^{2+} .