

Anodic corrosion of gold in solutions of diaminoalkanes

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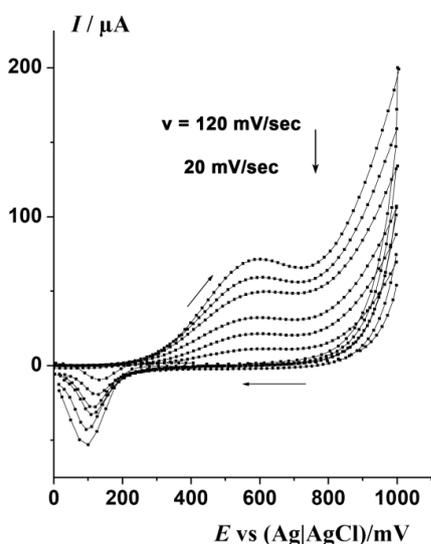


Figure S1 The cyclic voltammetry CV of gold anode in $0.1 \text{ mol}\cdot\text{dm}^{-3}$ solution of 1,2-diaminopropane **2** in 0.05 M solution of K_2CO_3 . The potential scan rates are 20 40, 60, 80, 100 and $120 \text{ mV}\cdot\text{s}^{-1}$

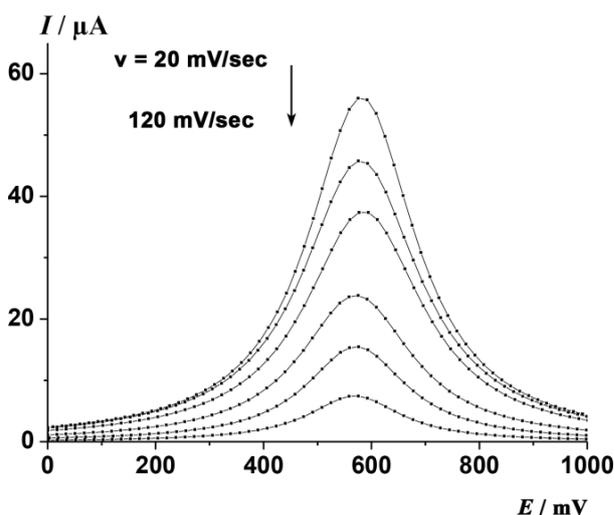


Figure S2 The anodic peaks of CV of gold electrode in $0.1 \text{ mol}\cdot\text{dm}^{-3}$ solution of 1,2-diaminopropane **2** in 0.05 M solution of K_2CO_3 , presented as the Gaussian functions. The potential scan rates are 20 40, 60, 80, 100 and $120 \text{ mV}\cdot\text{s}^{-1}$

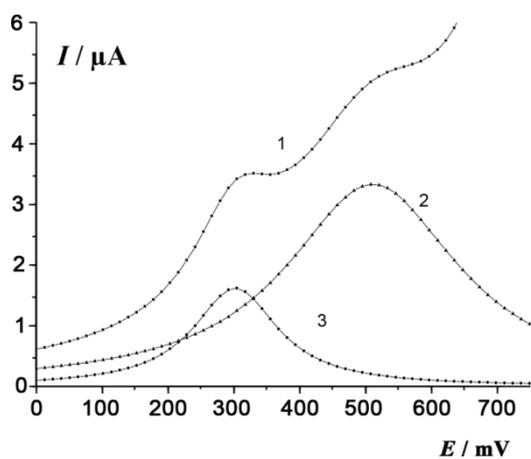


Figure S3 The anodic branch of cyclic voltammetry of Au electrode in $0.1 \text{ mol}\cdot\text{dm}^{-3}$ solution of 1,2-diaminopropane **2** in 0.05 M solution of K_2CO_3 at the potential scan rate $1 \text{ mV}\cdot\text{s}^{-1}$

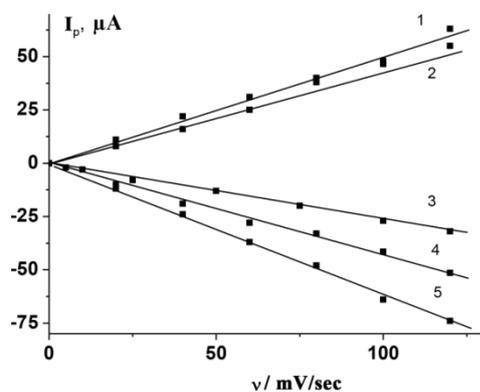


Figure S4 The linear dependence of the currents of peaks on CV from potential reaming rate ($1 \text{ mV}\cdot\text{s}^{-1}$) **1** – 1, 5, **2**- 2, 4, **3** - 3. 1, 2 – anodic branches, 3-5 – cathodic branches.

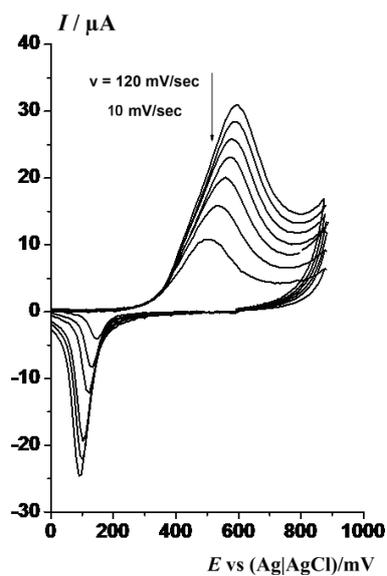


Figure S5 The cyclic voltammetry CV of gold anode in $0.1 \text{ mol}\cdot\text{dm}^{-3}$ solution of 1,3-diaminopropane **3** in 0.05 M solution of K_2CO_3 . The potential scan rates are 20 40, 60, 80, 100 and $120 \text{ mV}\cdot\text{s}^{-1}$.

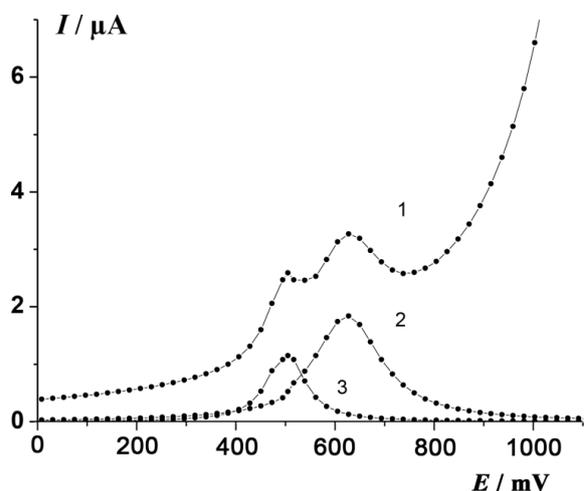


Figure S6 The anodic branch of cyclic voltammetry of Au electrode in 0.1 mol dm⁻³ solution of 1,3-diaminopropane **3** in 0.05 M solution of K₂CO₃ at the potential scan rate 1 mV·s⁻¹

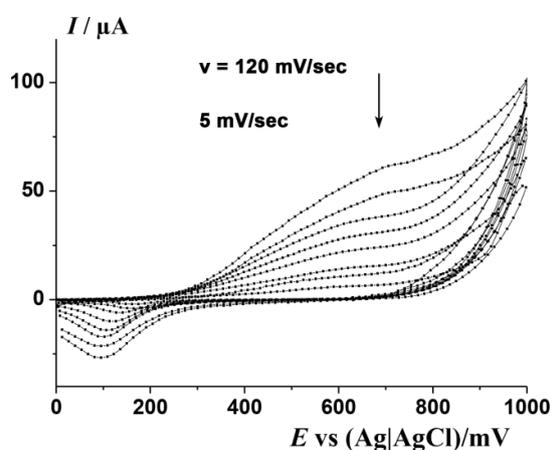


Figure S7 The cyclic voltammetry CV of gold anode in 0.1 mol dm⁻³ solution of 1,4-diaminobutane **4** in 0.05 M solution of K₂CO₃. The potential scan rates are 20, 40, 60, 80, 100 and 120 mV·s⁻¹

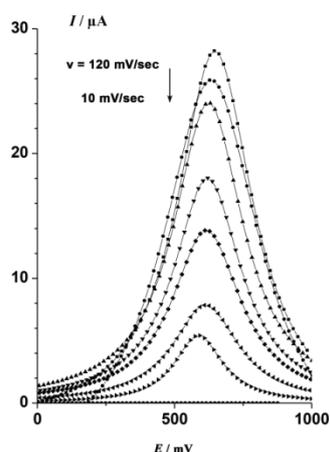


Figure S8 The anodic peaks of CV of gold electrode in 0.1 mol dm⁻³ solution of 1,4-diaminobutane **4** in 0.05 M solution of K₂CO₃, presented as the Gaussian functions. The potential scan rates are 20, 40, 60, 80, 100 and 120 mV·s⁻¹