

Silver Paste Nanocomposite Electrode as a New Metallic Electrode for Amperometric Determination of Hydrazine

Afsaneh Safavi* and Maryam Tohidi

Department of Chemistry, College of Sciences, Shiraz University, Shiraz, 71454, Iran. *Email adress: safavi@chem.susc.ac.ir

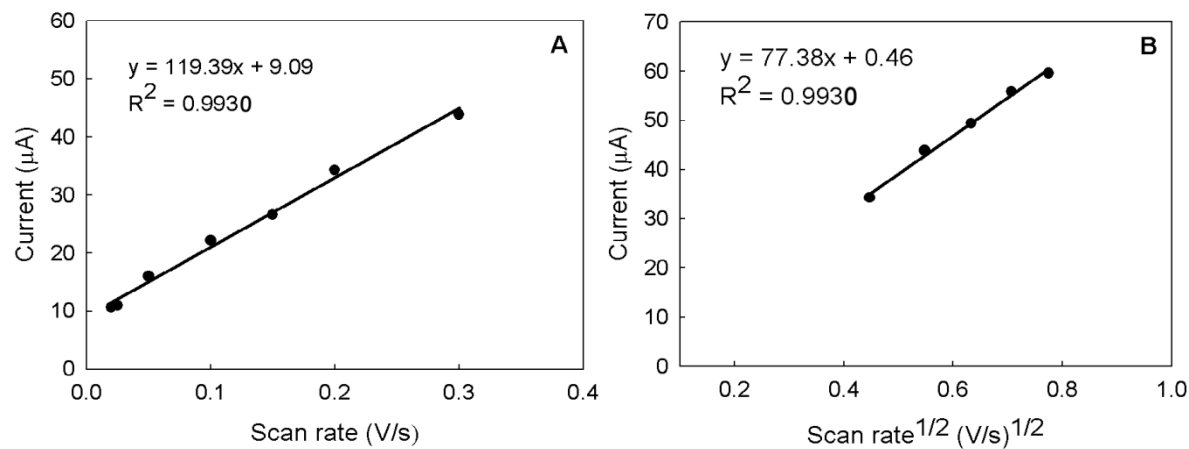


Fig. S1 The dependency of peak currents for 1.0 mM hydrazine in 0.1 M KOH on the (A) ν and (B) ν^{1/2}.

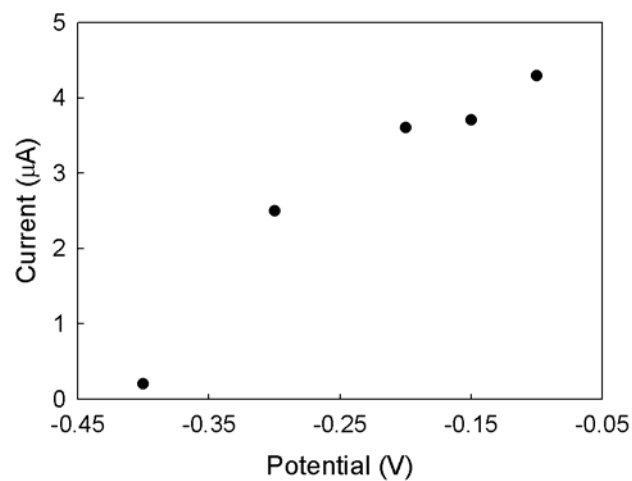


Fig. S2 Effect of potential on electrocatalytic signal of 0.1 mM hydrazine at Ag paste nanocomposite electrode.

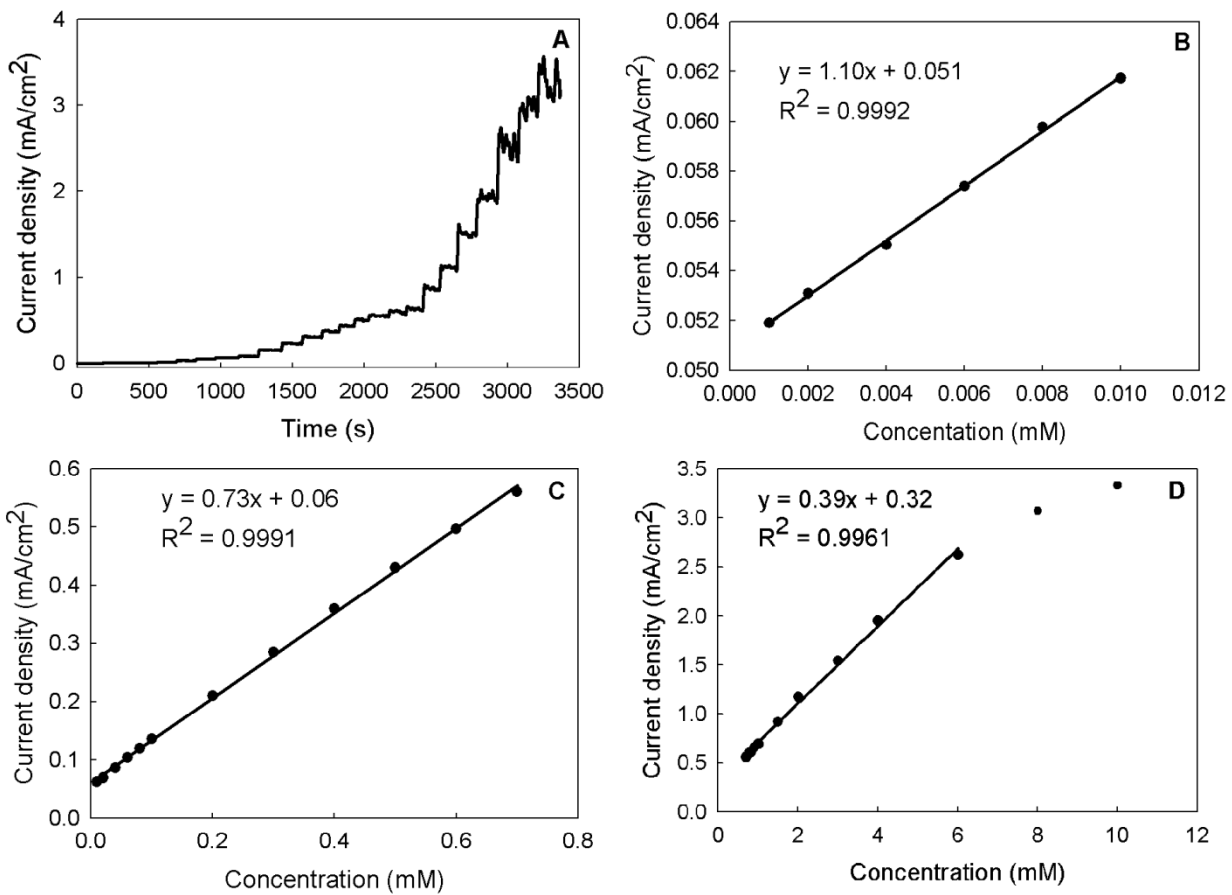


Fig. S3 (A) Amperometric responses for increasing hydrazine concentrations at Ag paste nanocomposite electrode in 1.0 M KOH. (B)-(D) Calibration curves of different ranges of hydrazine concentrations. Applied potential: -0.15 V.

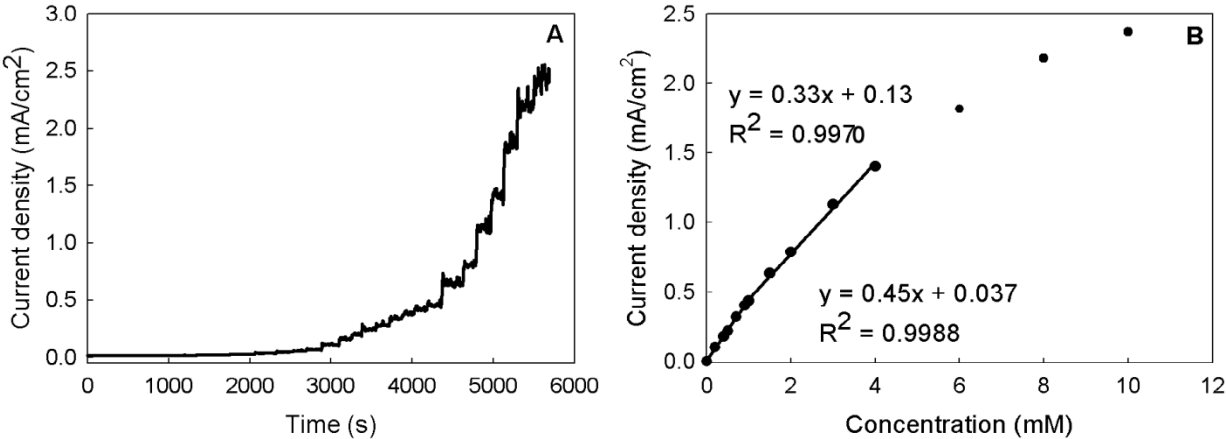


Fig. S4 (A) Amperometric responses for increasing hydrazine concentrations at Ag disk electrode in 1.0 M KOH and (B) calibration curves of hydrazine concentrations at Ag disk electrode. Applied potential: -0.15 V.

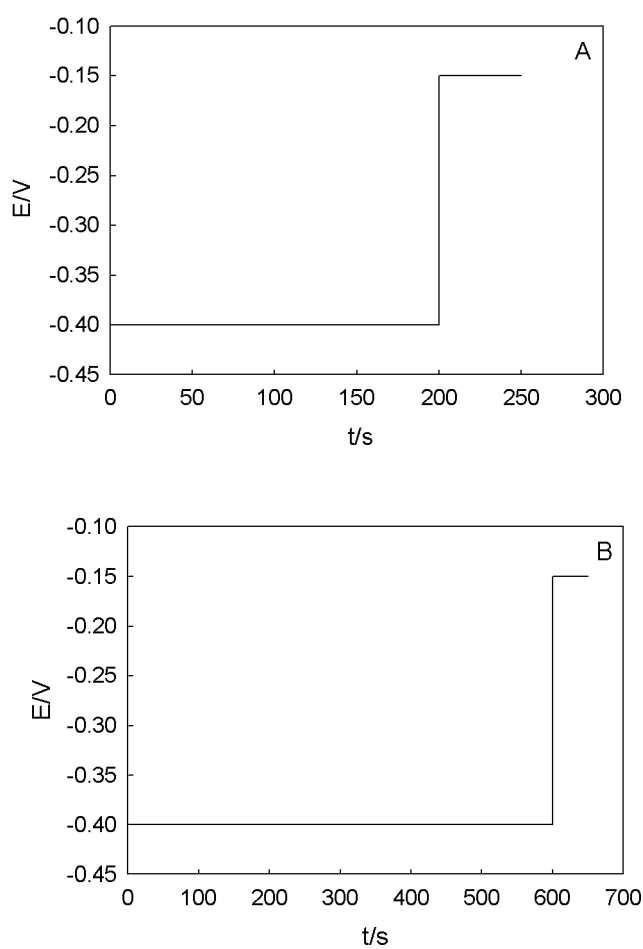


Fig. S5. Potential-time double step diagrams with time of (A) 200 s and (B) 600 s in -0.4 V for preconcentration step and 50 s in -0.15 V for anodic stripping step.

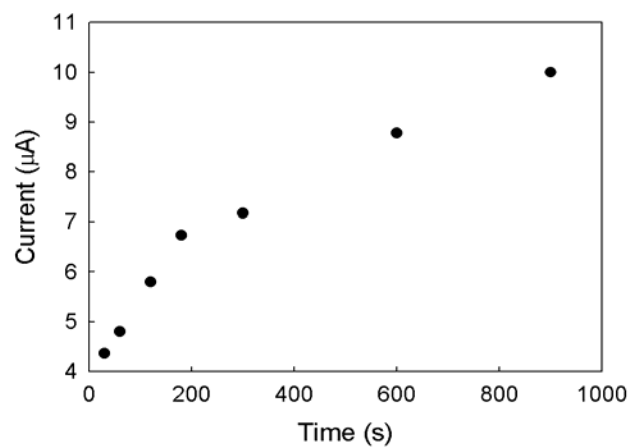


Fig. S6. Effect of time of adsorption on electrocatalytic signal of 0.1 mM hydrazine at Ag paste nanocomposite electrode. Applied potentials: first step (-0.4 V) and second step (-0.15 V).