

Supplementary Data for

“Modification of disposal pencil graphite electrode with multiwalled carbon nanotubes: Application to electrochemical determination of diclofenac sodium in some pharmaceutical and biological samples”

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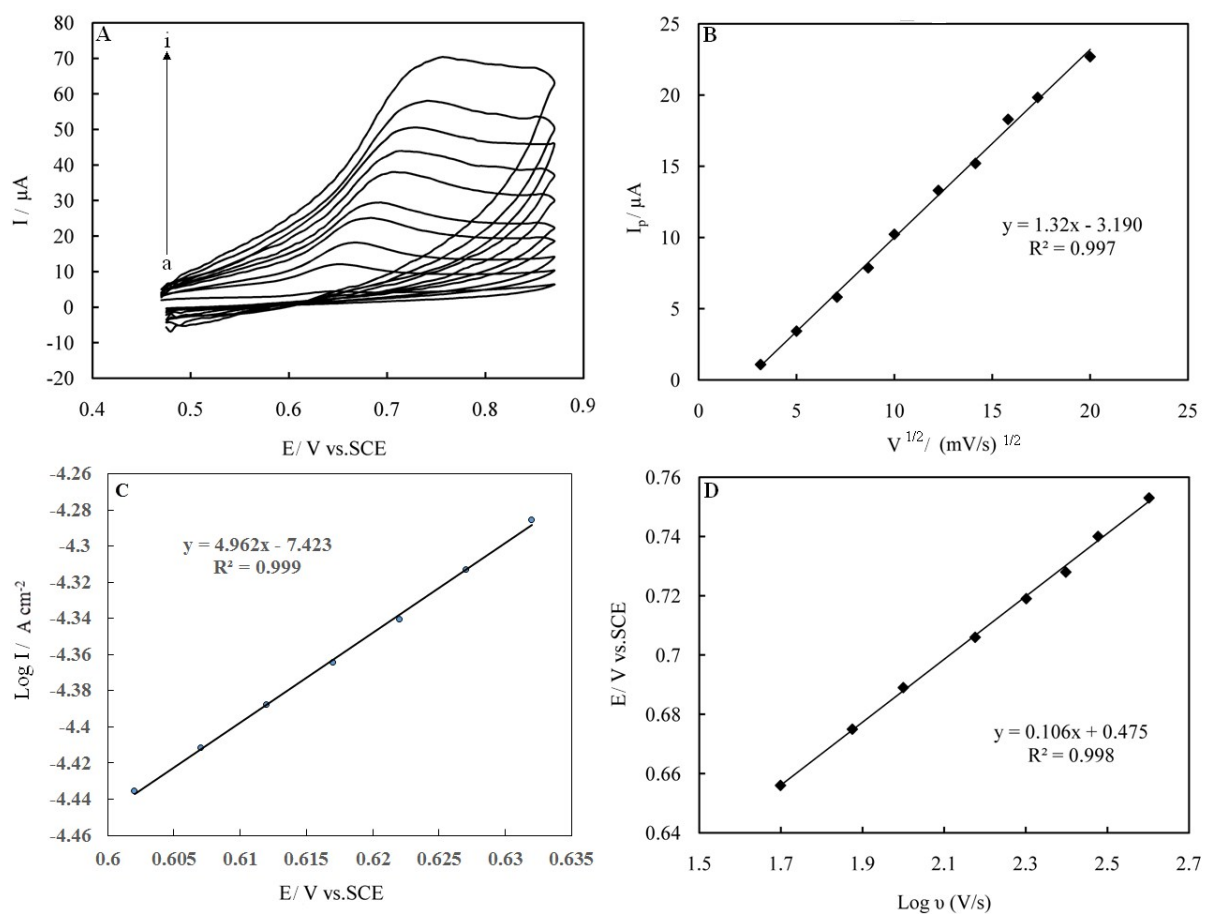


Fig. S1 (A) Cyclic voltammograms of MWCNTs/PGE in 0.5 M acetate buffer solution (pH= 4) containing 0.57 mM DIC and 0.1 M NaCl as background electrolyte at different scan rates from (a) 10, (b) 25, (c) 50, (d) 100, (e) 150, (f) 200, (g) 250, (h) 300, (i) 350, and (j) 400 mV s^{-1} , (B) Plots of anodic peak currents versus the square root of scan rate, (C) Plot of $\log I$ versus potential (tafel plot) for 0.038 mM DIC and 0.1 M NaCl as background electrolyte on MWCNTs/PGE, and (D) Plot of E versus $\log v$ (tafel plot) for 0.038 mM DIC and 0.1 M NaCl as background electrolyte on MWCNTs/PGE.

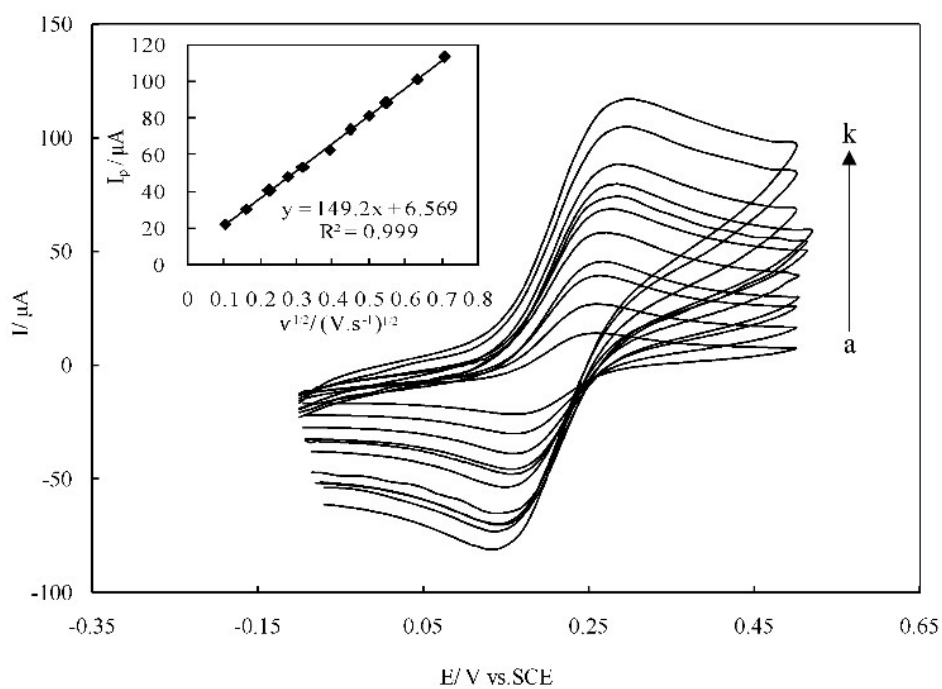


Fig. S2 Cyclic voltammograms of MWCNTs/PGE in solution containing 1 mM $\text{Fe}(\text{CN})_6^{3-/4-}$ and 1 M KCl with potential sweep rates of 10-400 mV s^{-1} . Inset: Plot of peak current variation versus square root of potential sweep rates.

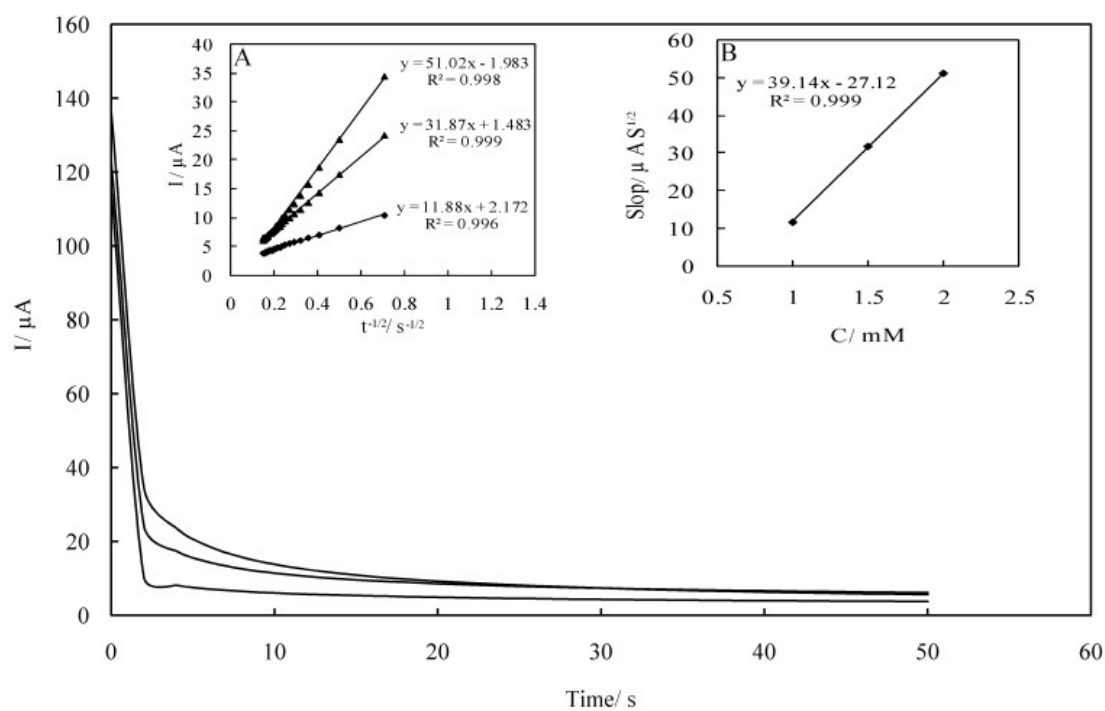


Fig. S3 Chronoamperograms of (a) 1, (b) 1.5, and (c) 2 mM DIC in 0.5 M acetate buffer solution containing 0.1 M NaCl on MWCNTs/PGE. Inset A: Plot of currents versus square root of t . Inset B: Variation of slope of $(I-t^{0.5})$ curves versus DIC concentrations.