Electronic Supplementary Material (ESI) for RSC Advances.

Supporting information

Greenly synthesized graphene with L-glutathione modified electrode and its application towards determination of rutin

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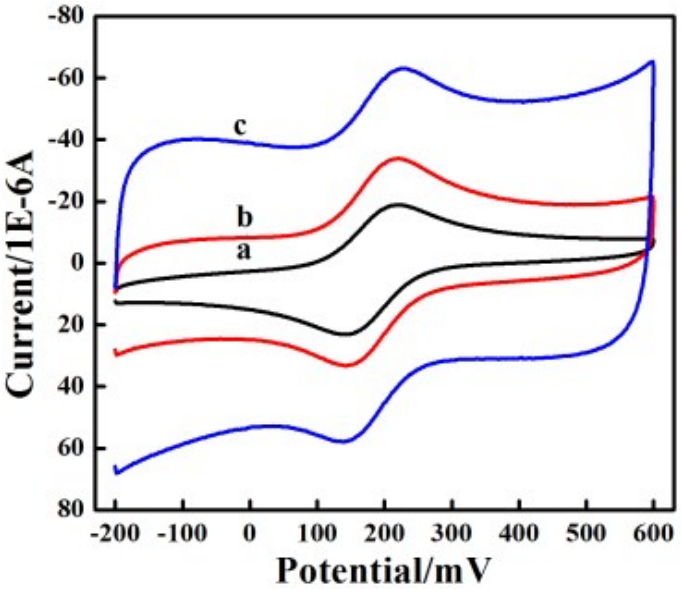

Fig. S1 Cyclic voltammograms of $[Fe(CN)_6]^{3-/4-}$ (1.0×10^{-3} mol L^{-1} containing 0.1 mol L^{-1} KCl) at the bare GCE (a), GR/GCE (b) and GSH-GR/GCE (c). Scan rate: 100 mV s^{-1}.

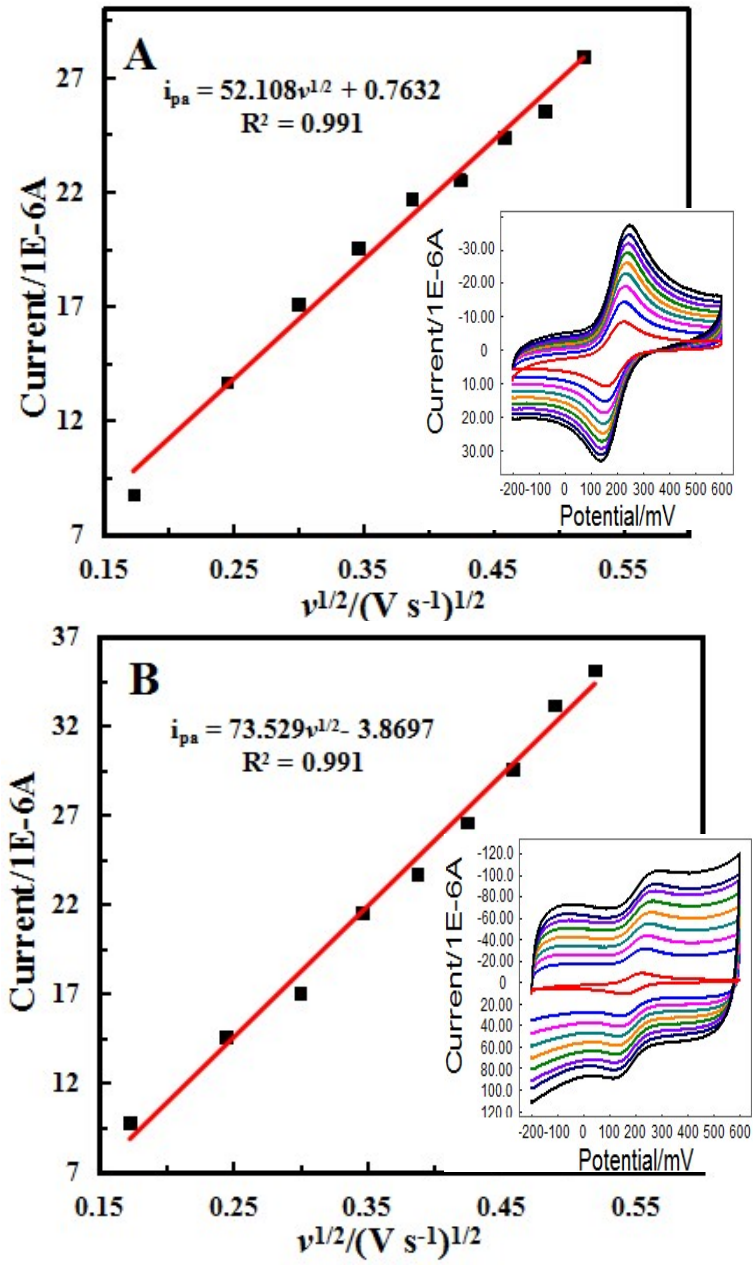

Fig. S2 The linear relations anodic peak current of $K_3Fe(CN)_6$ against the square root of scan rate at the bare GCE (A) and GSH-GR/GCE (B). Insets are CVs of the bare GCE (in A) and GSH-GR/GCE (in B) in 1.0 mM $K_3Fe(CN)_6$ at different scan rates from 0.03 to 0.27 V s^{-1}.

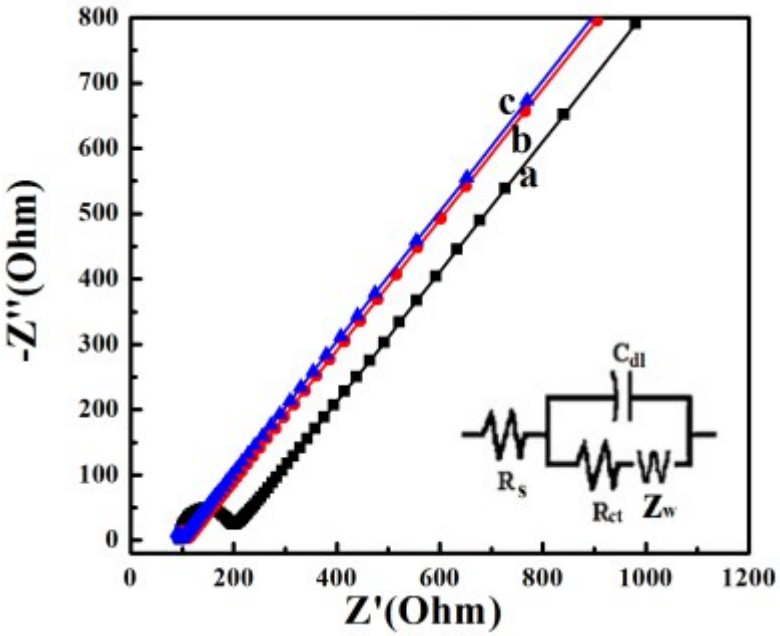

Fig.S3 The EIS of bare GCE(a), GR/GCE(b) and GSH-GR/GCE(c) in 5.0×10^{-3} mol L^{-1} $Fe(CN)_6^{4-/3-}$ (1:1) solution containing 0.10 mol L^{-1} KCl; Frequency range: 1.0MHz-0.01 Hz. The inset is equivalent circuit.