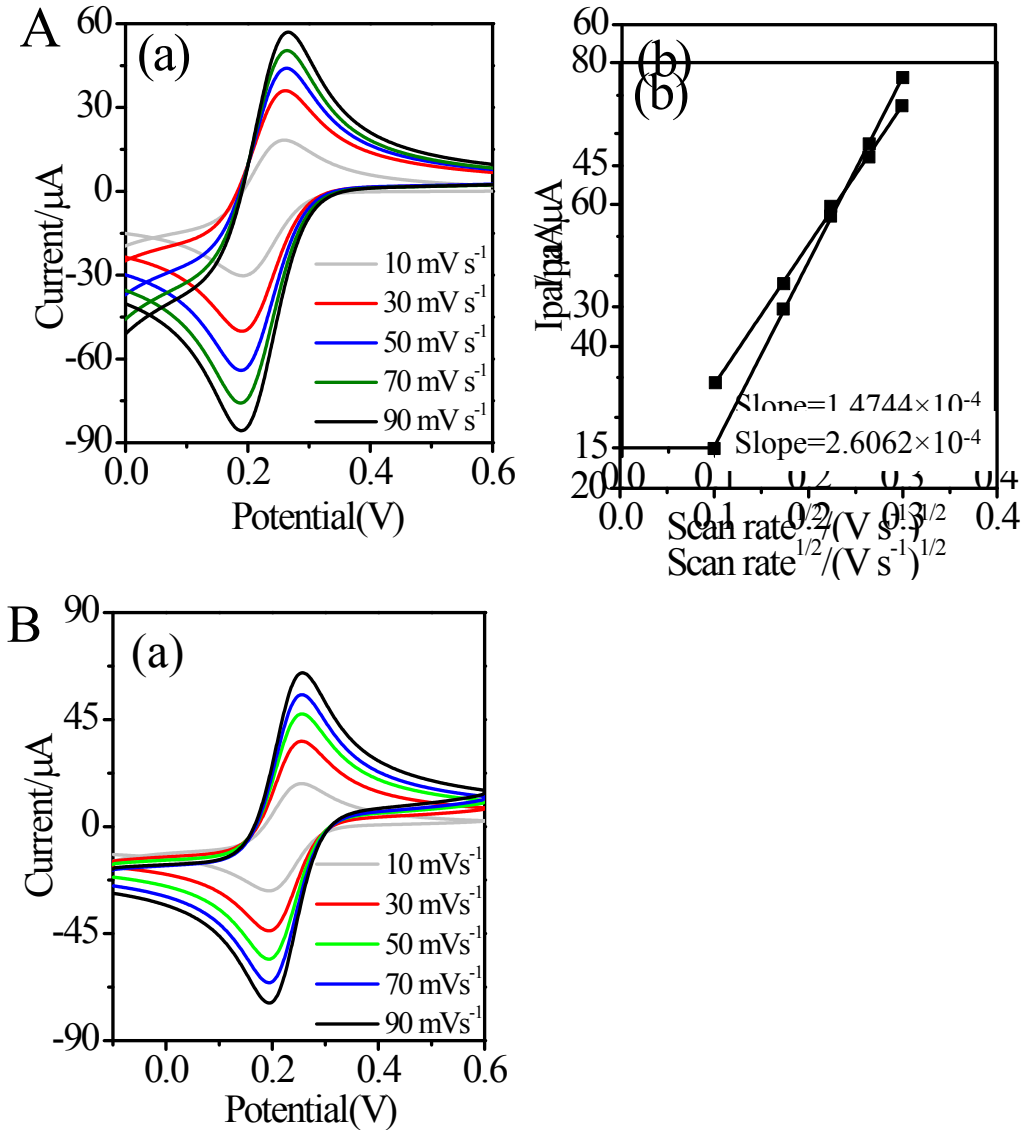

Fig. S1 CVs of GCE (A) and N-GCE (B) using 5.0 mM $Fe(CN)_6^{4-/3-}$ as a probe in 0.1 M KCl at different scan rates from inner to outer: 10, 30, 50, 70, 90 (mVs^{-1}) (a) and the corresponding linear relationship between anodic peak current and square root of scan rate (b).

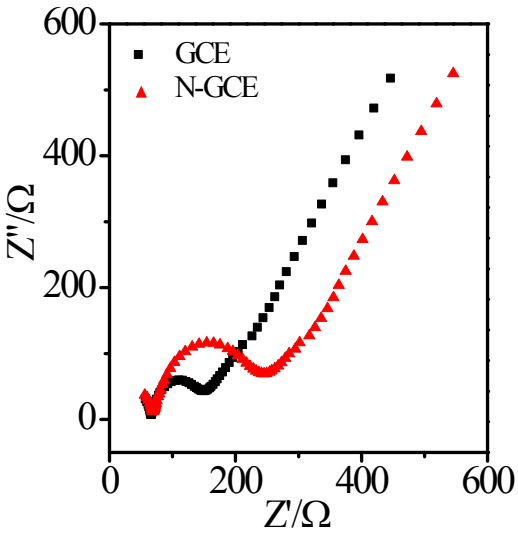

Fig. S2 Nyquist plots of GCE and N-GCE in 0.1 M KCl solution using 5 mM $[Fe(CN)_6]^{3-/4-}$as a probe.

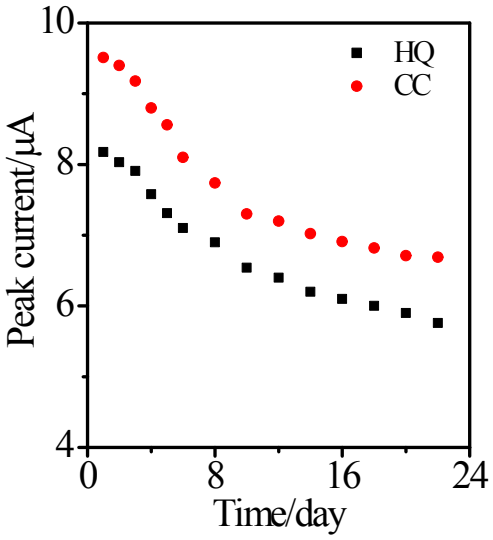

Fig. S3 Time dependence of current response of N-GCE to a mixture of 300 μM HQ and 300 μM CC in PBS (0.1M, pH 7.0). N-GCE was stored in PBS (0.1M, pH7.0) at room temperature when it was not in use.

Table.S1 Influence of some possible interfering substances on the simultaneous determination of 300 μM HQ and 30 μM CC (n=5)

Coexisting substances	Concentration/M	Relative error/%
Na^+	3.0×10^{-2}	1.22
K^+	3.0×10^{-2}	1.03
Ca^{2+}	3.0×10^{-2}	1.10
Mg^{2+}	3.0×10^{-2}	1.05
Fe^{2+}	3.0×10^{-2}	2.04.
NO_3^-	3.0×10^{-2}	2.05
SO_4^{2-}	3.0×10^{-2}	2.12
Cl^-	3.0×10^{-2}	2.30
Resorcinol	3.0×10^{-4}	4.54
Phenol	3.0×10^{-4}	3.02
Hydroxybenzonic acid	3.0×10^{-4}	3.41
Hydroxy benzaldehyde	3.0×10^{-4}	1.56
Hydroxybenzyl alcohol	3.0×10^{-4}	2.04
Acetaminophen	3.0×10^{-4}	3.26
Adcorbic acid	3.0×10^{-4}	4.25
Uric acid	3.0×10^{-4}	1.45