

Electronic Supplementary Information

A highly sensitive morin sensor based on PEDT-Au/rGO nanocomposites modified glassy carbon electrode

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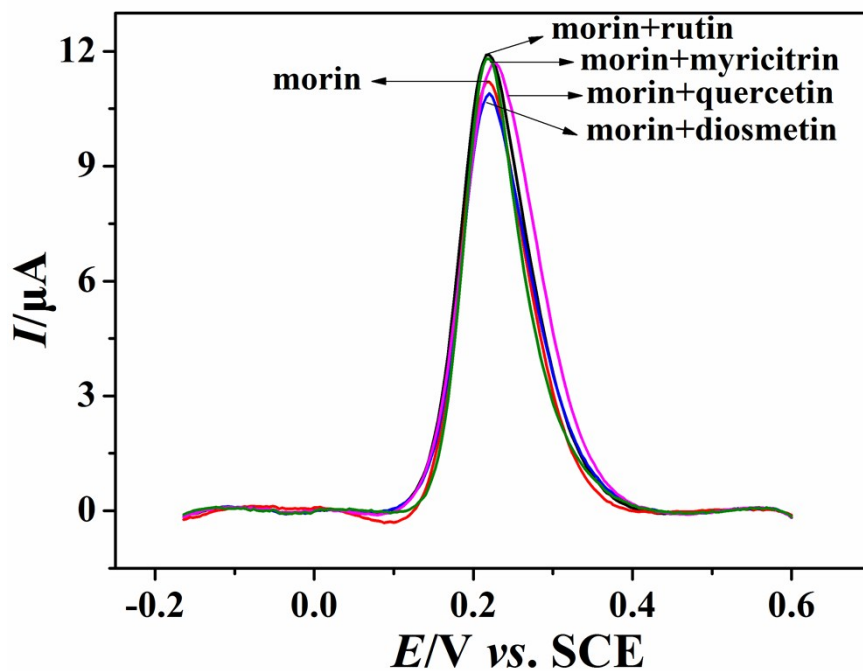


Fig. S1 The SWVs referring to the interferences from flavonoids recorded on PEDT-Au/rGO/GCE.

Table.S1 Effects of possible interferences on the oxidation peak current signal of 100 $\mu\text{mol dm}^{-3}$ morin at the PEDT-Au/rGO/GCE in BR buffer solution (pH=6.0).

Interference	Concentration (mol dm^{-3})	Signal change (%)
NaNO ₃	0.01	2.13
K ₃ PO ₄	0.01	1.39
CaCl ₂	0.01	-3.02
MgSO ₄	0.01	-2.49
NH ₄ F	0.01	3.40
Na ₂ CO ₃	0.01	1.76
Zn(Ac) ₂	0.01	1.98
glucose	0.005	-2.08
maltose	0.005	-1.23
sucrose	0.005	3.76
ascorbic acid	0.005	-2.84
dopamine	0.005	3.83
quercetin	0.001	2.71
rutin	0.001	4.81
myricitrin	0.001	3.85
diosmetin	0.001	-4.63

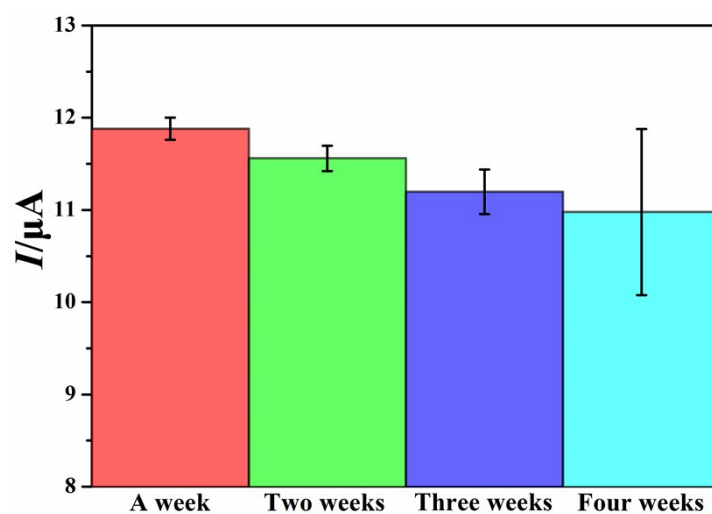


Fig. S2 The bar diagram of current responses to $100 \mu\text{mol dm}^{-3}$ morin in BR buffer solution (pH=6.0) recorded on PEDT-Au/rGO/GCEs after storing during different time periods.

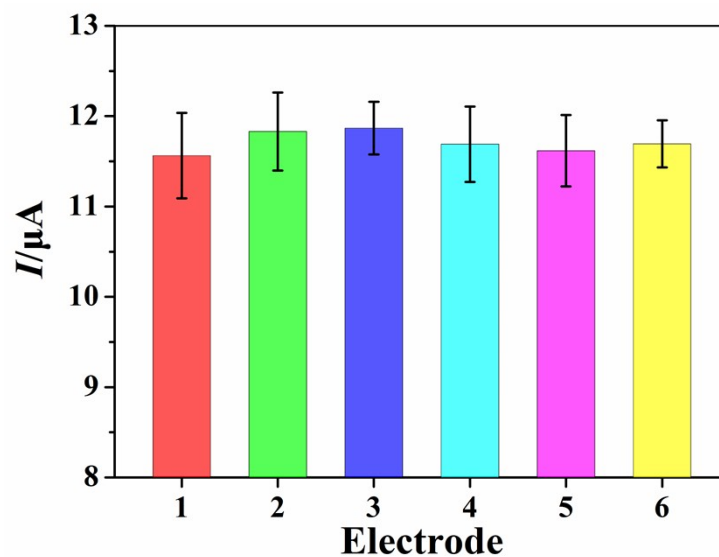


Fig. S3 The bar diagram of current responses recorded on six identically fabricated PEDT-Au/rGO/GCEs of $100 \mu\text{mol dm}^{-3}$ morin in BR buffer solution (pH=6.0).