Supporting information

Rapid quantitative detection of luteolin using electrochemical sensor based on electrospinning of carbon nanofibers doped with single-walled carbon nanoangles

LiwenZhang[a], DanfengQin[a,b*], Jun Feng[a,b], Tingfan Tang[a], Hao Cheng[a,c,*]

[a]Guangxi Key Laboratory of Green Processing of Sugar Resources, College of Biological and Chemical Engineering, Guangxi University of Science and Technology, Liuzhou 545006, Guangxi province, P.R. China.

[b]School of Medicine Guangxi University of Science and Technology, Liuzhou 545006, Guangxi province, P.R. China.

[c]Province and Ministry Co-sponsored Collaborative Innovation Center of Sugarcane and Sugar Industry, Nanning 530004, Guangxi province, People's Republic of China

*Corresponding author.

E-mail address: chenghao@gxust.edu.cn (H. Cheng), qindanfeng@gxust.edu.cn (D. Qin)

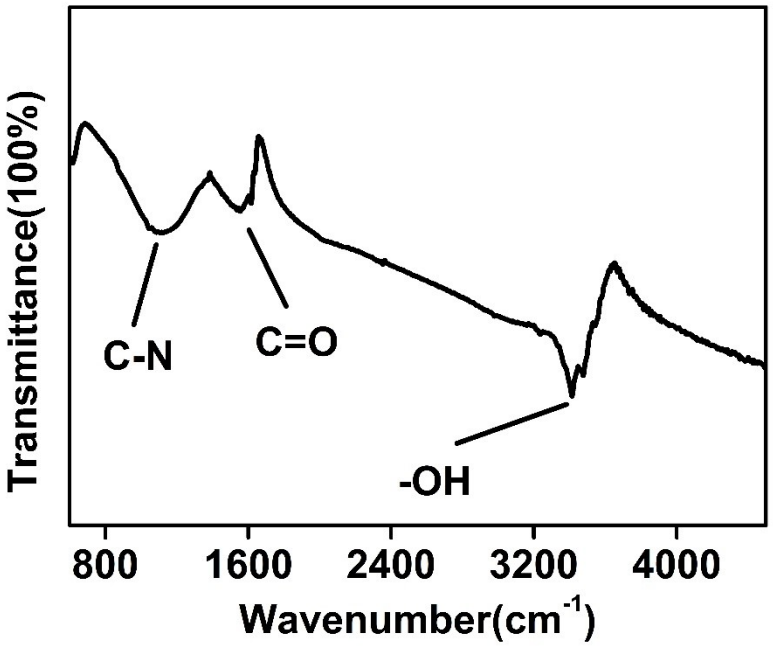

Figure S1. FT-IR spectrum of SWCNHs/CNFs.

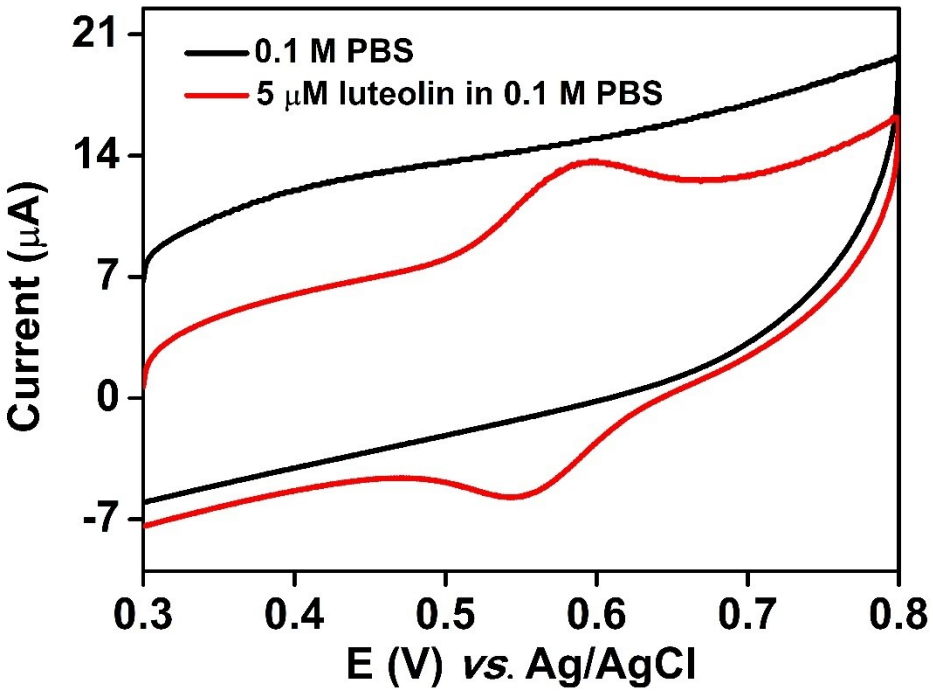

Figure S2. CV curves of SWCNHs/CNFs/GCE in different solution.

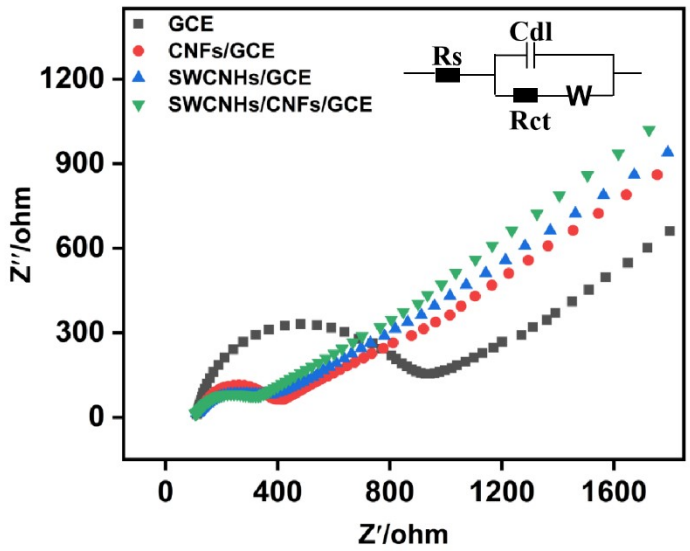

Figure S3. EIS curves of different modified electrodes in 5 mM $[Fe(CN)_6]^{3-/4-}$ containing 0.1 M KCl.

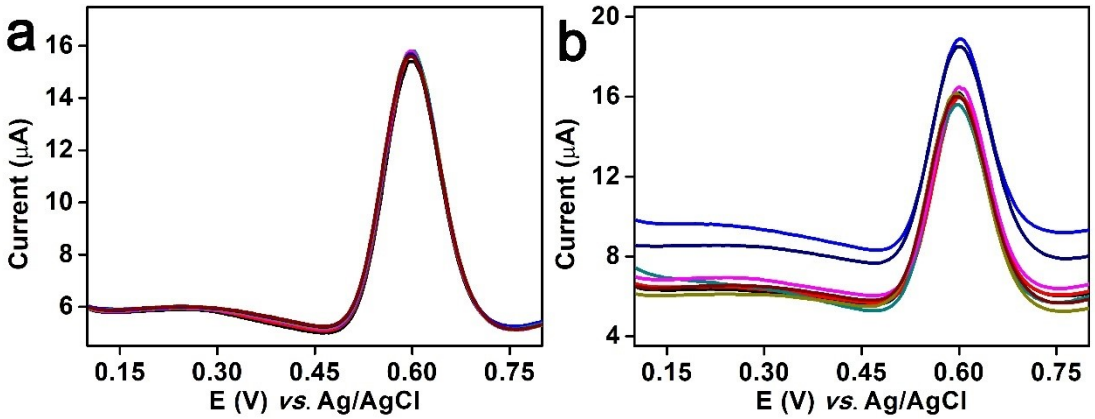

Figure S4. DPV curves in (a) repeatability and (b) reproducibility of the SWCNHs/CNFs/GCE.

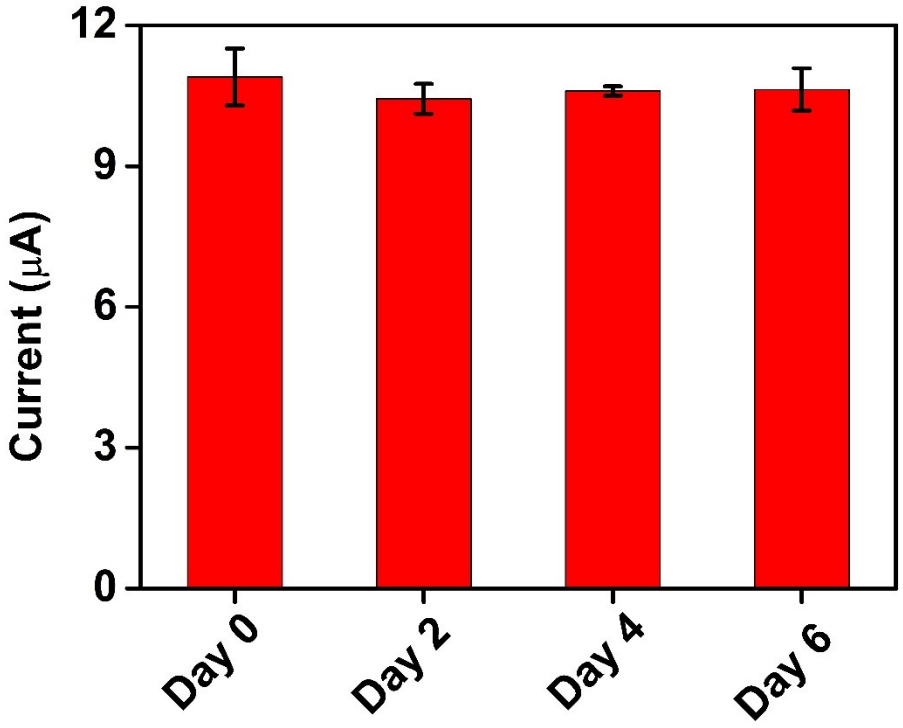

Figure S5. Stability research by SWCNHs/CNFs/GCEs. (n=3)

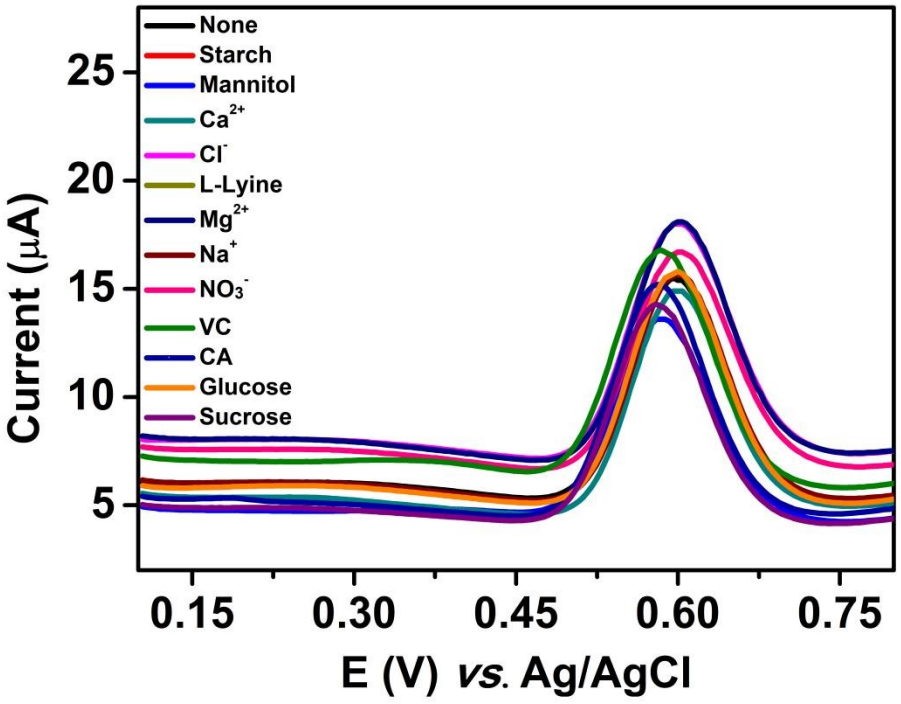

Figure S6. DPV curves of SWCNHs/CNFs/GCE for detection of 5 μM luteolin containing interfering compounds.