

Supplementary Information

Disposable electrochemical caffeine sensor based on screen-printed electrode modified with copper-metal organic framework and functionalized multi-walled carbon nanotubes nanocomposite

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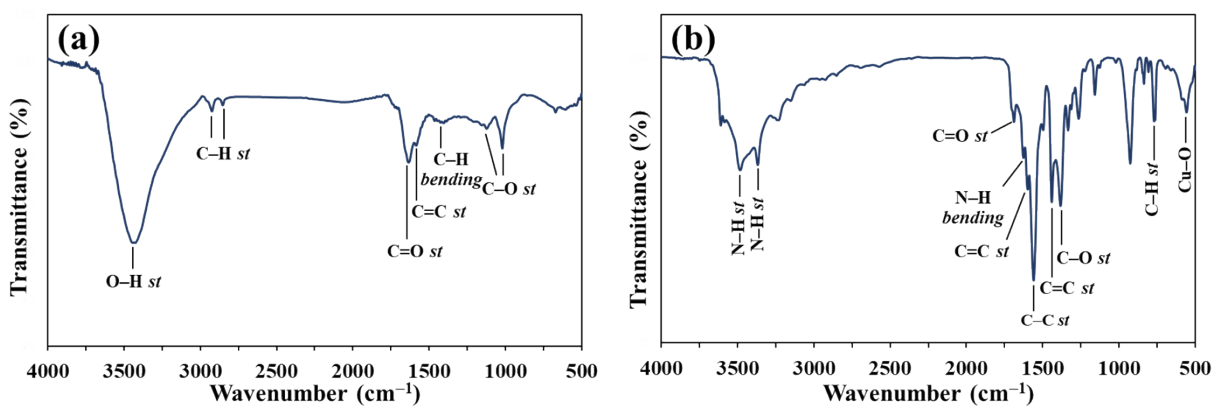


Fig S1. Fourier-transform infrared spectra are of (a) f-MWCNTs and (b) Cu-MOF.

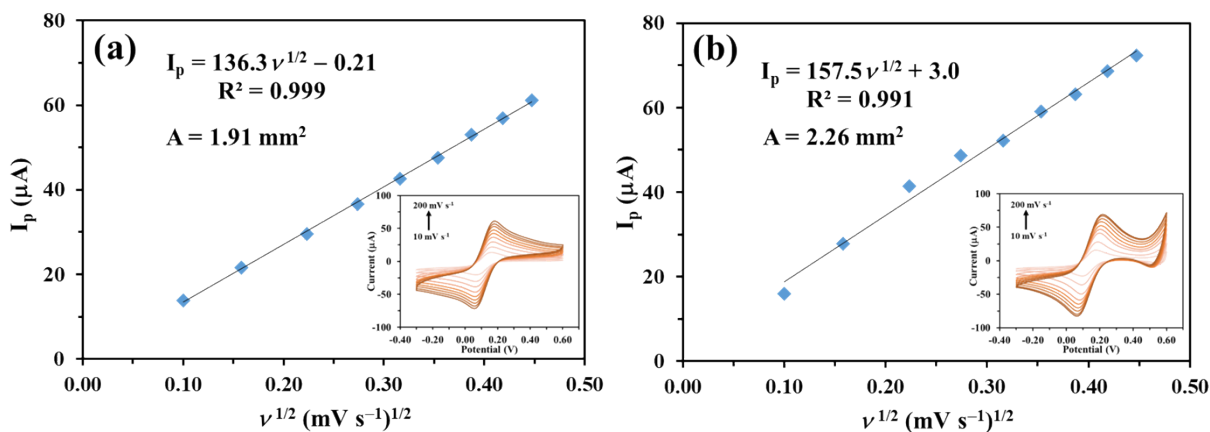


Fig S2. The linear relations between the anodic peak current and the square root of the scan rate are of (a) the f-MWCNTs/SPE and (b) the Cu-MOF@f-MWCNTs/SPE. The insets show the CV responses produced in 5.0 mM $\text{K}_3\text{Fe}(\text{CN})_6$ containing 0.10 M KCl at different scan rates from 10 – 200 mV s^{-1} .