**Supplementary Information**

**Efficient Electrochemical Detection of Dopamine with Carbon Nanocoils and Copper Tetra(p-methoxyphenyl)porphyrin Nanocomposite**

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**Figures**



**Figure S1.** Structures of TMePP (a) and CuTMePP (b).



**Figure S2.** UV-visible spectrum of CNC.



**Figure S3.** Raman spectrum of CNC.



**Figure S4.** XRD spectrum of CNC, CNC/CuTMePP and CuTMePP (JCPDS No. 26-1077).



**Figure S5.** EDS data of CNC (a), CuTMePP (b) and CNCs/CuTMePP.



**Figure S6.** Proposed electrochemical redox process of dopamine.



**Figure S7.** Calibration plots between redox current and scan rate (a), ln of anodic peak current versus ln scan rate (b) and between peak potential (Ep) versus log of scan rate (c).

**Tables**

**Table S1.** Electroactive surface area of electrodes (ESA).

|  |  |
| --- | --- |
| **Probes** | **ESA (cm2)** |
| GC | 0.015 |
| CNCs/GC | 0.052 |
| TMePP/GC | 0.014 |
| CuTMePP/GC | 0.009 |
| CNCs/TMePP/GC | 0.065 |
| CNCs/CuTMePP/GC | 0.068 |