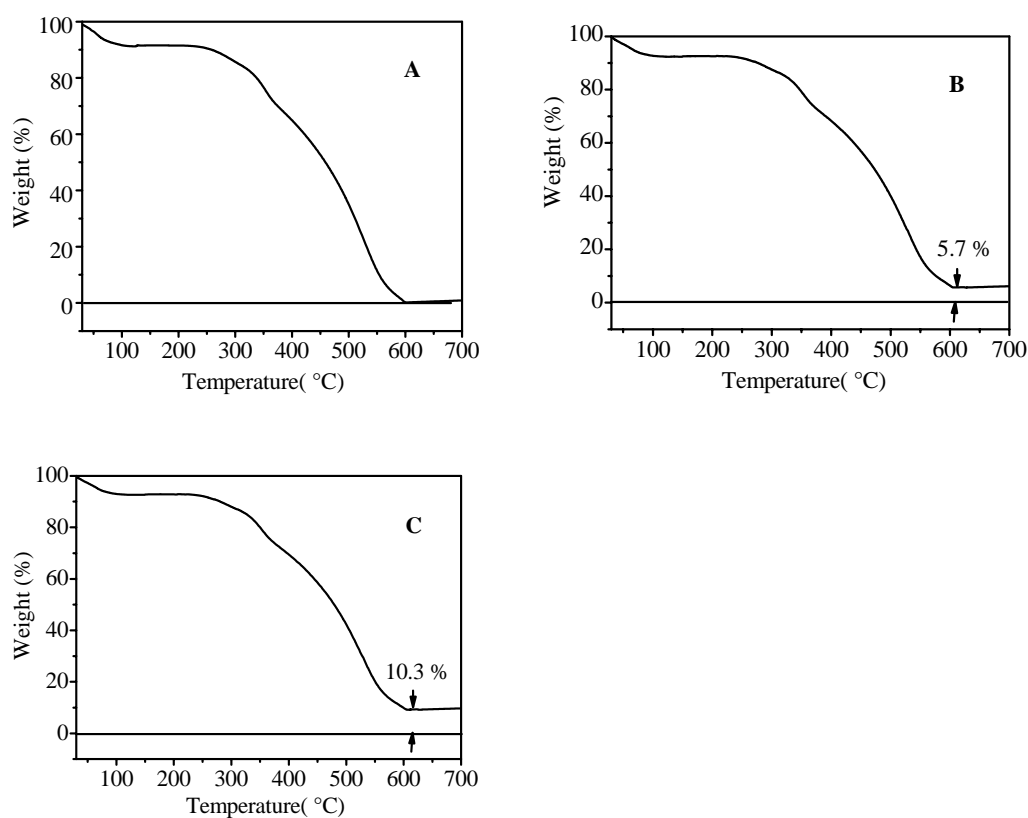


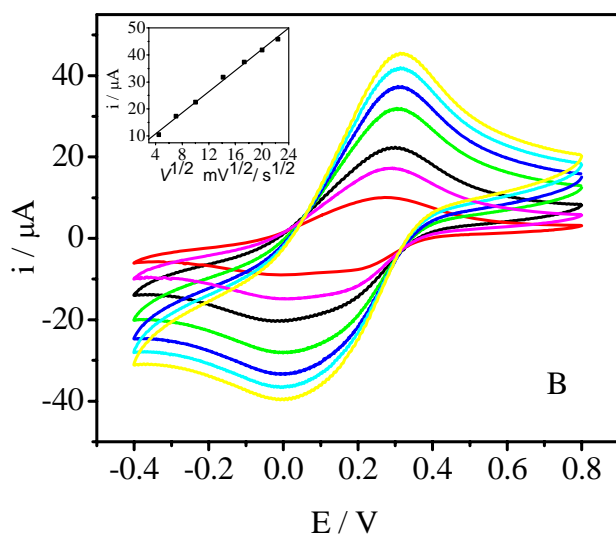
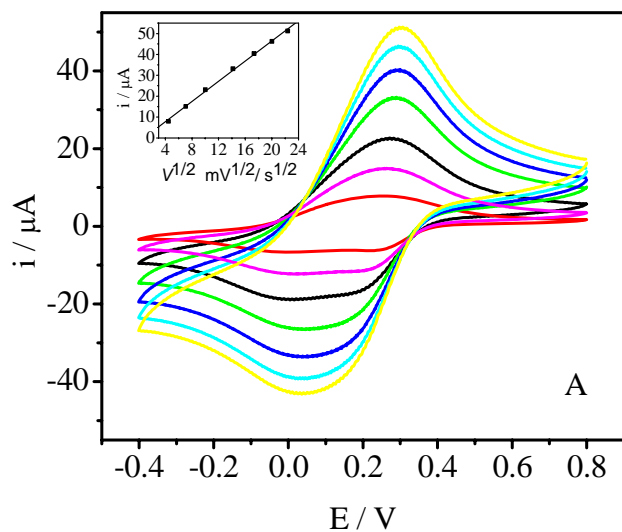
# Supporting Information for “Polyaniline/Au Composite Hollow Spheres: Synthesis, Characterization, and Application to the Detection of Dopamine”

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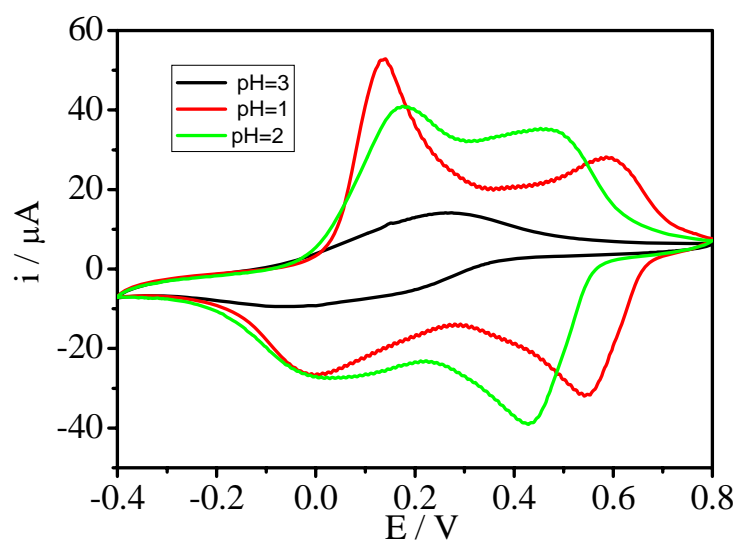
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SI Figure 1. TGA curves of (A) PANI, (B) PANI/Au hollow spheres with a low content of Au NPs and (C) PANI/Au hollow spheres with a high content of Au NPs. Synthetic conditions: aniline 1 mmol, APS 1 mmol, the concentration of PANI in Au colloid is 1.0 and 0.5 mg/mL for (B) and (C), respectively.



SI Figure 2. Cyclic voltammograms of (A) PANI modified GCE and (B) PANI/Au modified GCE in PBS (pH=3.0) at different scan rates: from inner to outside 20, 50, 100, 200, 300, 400, 500 mV/s. Inserts show calibration plots between the anodic peak current and the square root of the scan rate. Synthetic conditions: aniline 1 mmol, APS 1 mmol, the concentration of PANI in Au colloid 1.0 mg/mL.



SI Figure 3. Cyclic voltammograms of PANI/Au modified GCE measured in different pH PBS buffer at a scan rate of 100 mV/s. Synthetic conditions: aniline 1 mmol, APS 1 mmol, the concentration of PANI in Au colloid 1.0 mg/mL.