Supporting Information

For

A novel electrochemical sensor of tryptophan based on silver nanoparticles/metal-organic framework composite modified glassy carbon electrode

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Additional figures

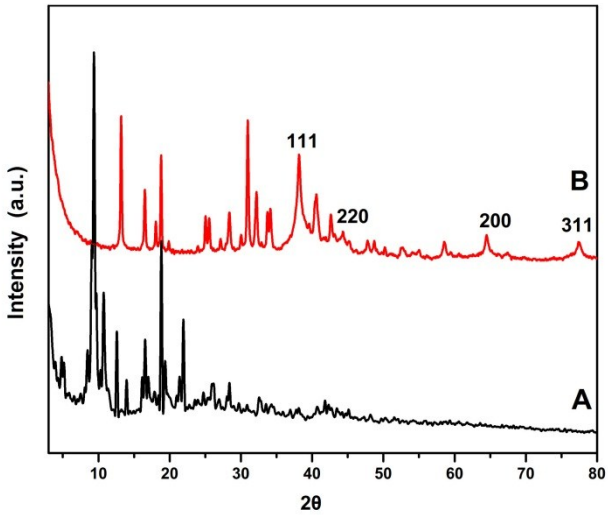

Figure. S1 The X-ray diffraction patterns of MIL-101 (A) and AgNPs/MIL-101 (B).

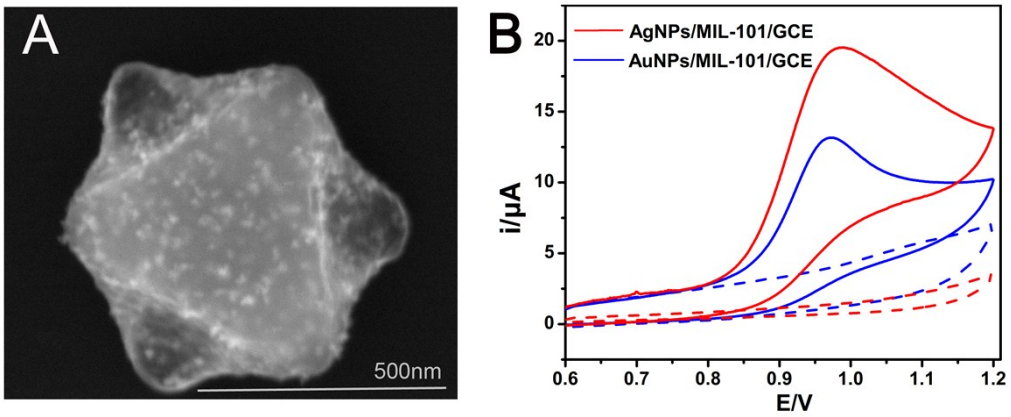

Fig. S2 (A) SEM image of AuNPs/MIL-101. (B) CVs of different electrodes in the absence (dotted line) and presence (solid line) of 0.1 mM Trp in BR buffer solution (pH 2.4) with scan rate of 100 mV/s.

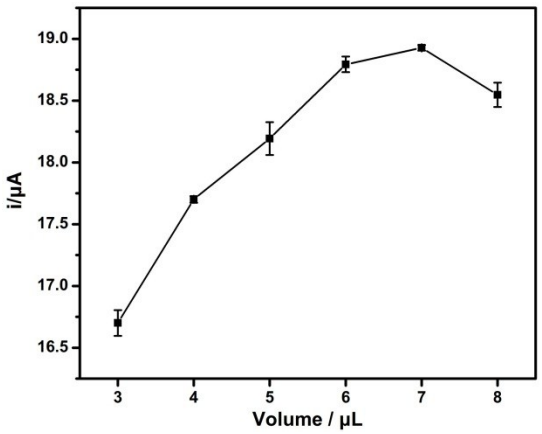

Figure. S3 The relationship between the amount of 2mg/ml AgNPs/MIL-101 and the peak current of 100μM Trp in BR (pH 2.4).

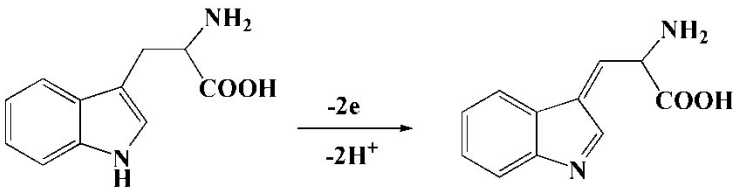

Figure. S4 Scheme of the electrochemical reaction process for Trp on AgNPs/MIL-101/GCE

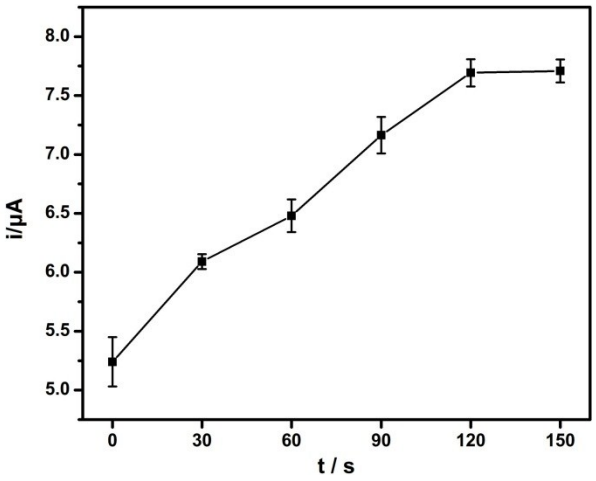

Figure. S5 The effect of accumulation time on the current response of 0.1mM Trp in BR (pH 2.4).