Supporting Information

Facile Preparation of Graphene Nanoribbon/Cobalt Coordination Polymer Nanohybrid for Non-enzymatic H_2O_2 Sensing by Dual Transducer: Electrochemical as well as Fluorescence

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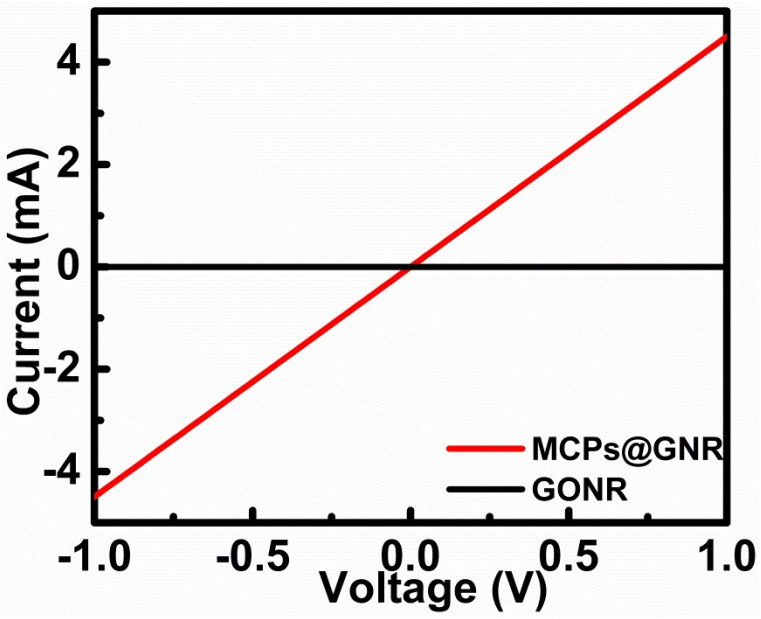

Figure S1 I-V Curves of graphene oxide nanoribbon (GONR) and graphene nanoribbon metal coordination polymer nanocomposite (MCPs@GNR) taken on pressed pallet using two probe keithley 2400 source meter.

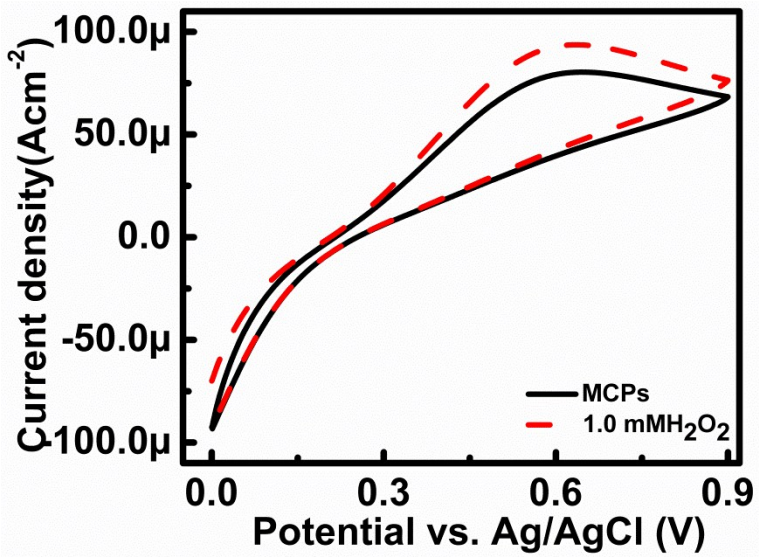

Figure S2 Cyclic voltammogram of MCPs/ITO electrode before (black) and after (red) addition of 1.0 mM H_2O_2.

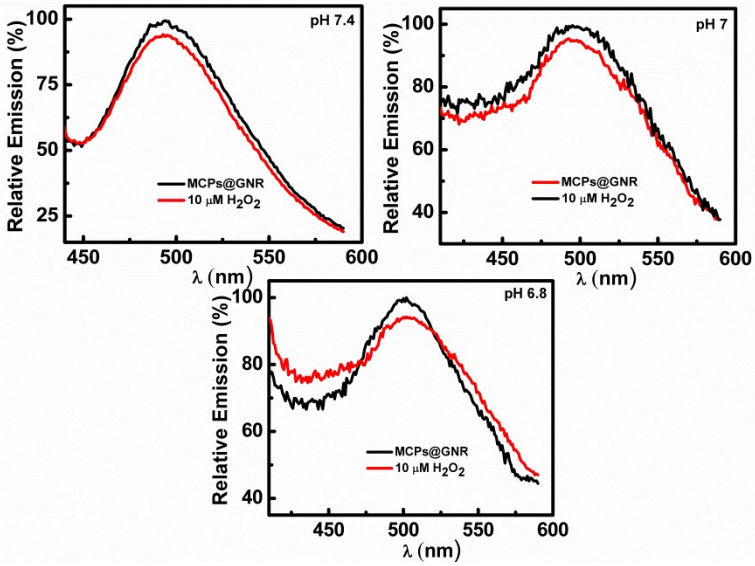

Figure S3 Florescence intensities of MCPs@GNR in the absence and presence of H_2O_2 (10 μM) at pH 7.4, 7.0 and 6.8. The results show the sensor provided the optimal sensitivity at pH 7.4 (PBS 0.1M)

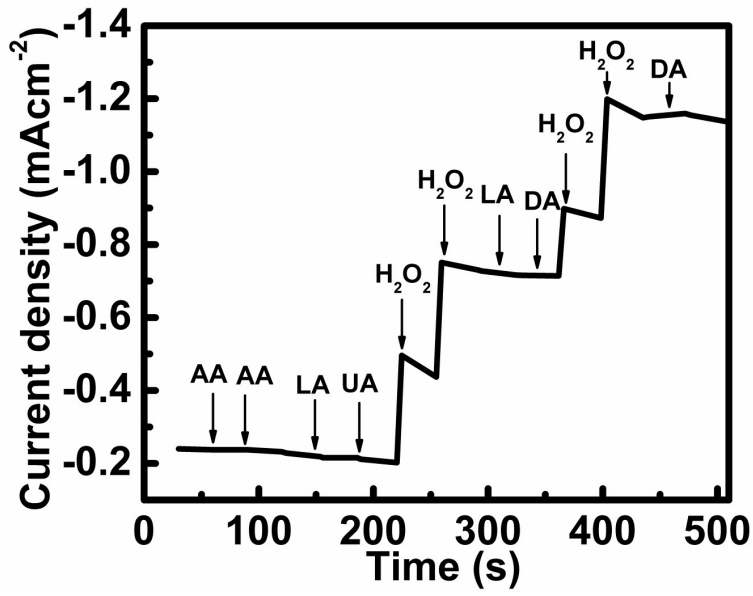

Figure S4 Amperometric response of MCPs@GNR/ITO sensor upon addition of 0.05 mM AA, LA, UA, DA and H_2O_2 at 0.3 V.