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Electronic Supplementary Information (ESI) for

Design and Preparation of Non-enzymatic Hydrogen Peroxide Sensor based on a Novel Rigid Chain Liquid Crystalline Polymer/Graphene Oxide Composite

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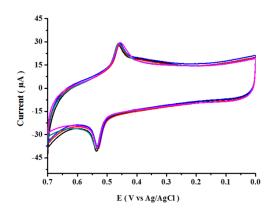
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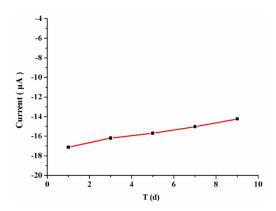
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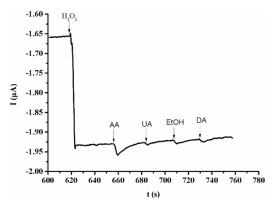
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S-Fig 1. The same electrode at 10 μM H₂O₂ for five times cyclic voltammogram.



S-Fig 2. Cyclic voltammogram of PFECS/rGO/GCE response current of 10 $\mu M\ H_2O_2$ every 3 days.



S-Fig 3. Amperometric responses of PFECS/rGO/GCE upon the successive addition of 50 μ M H₂O₂, 5 mM dopamine (DA), 5 mM uric acid (UA), 5 mM ascorbic acid (AA) and 5 mM ethanol into N2-saturated 0.2 M pH 7 PBS with an applied potential 0.4 V under a stirring condition.