**Supporting information**

**Vertical copper oxide nanowire arrays attached three-dimensional macroporous framework as a self-supported sensor for sensitive hydrogen peroxide detection**

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**Figure S1.** Effect of applied potential for amperometry sensing application of the CuO NWs/3D-Cu foam with the injection of 400 µM H2O2.



**Figure S2.** Effect of pH on amperometric sensing application of the CuO NWs/3D-Cu foam with the injection of 400 µM H2O2.



**Figure S3.** (A) Amperometric measurement of the CuOH NWs/3D-Cu foam in 0.1 M PBS solution upon successive injection of different H2O2 concentrations; (B) The fitting curve based on amperometric current response *vs*. H2O2 concentration.