

Supporting Information

Synthesis of porous Co_3O_4 nanonetworks to detect toluene at low concentration

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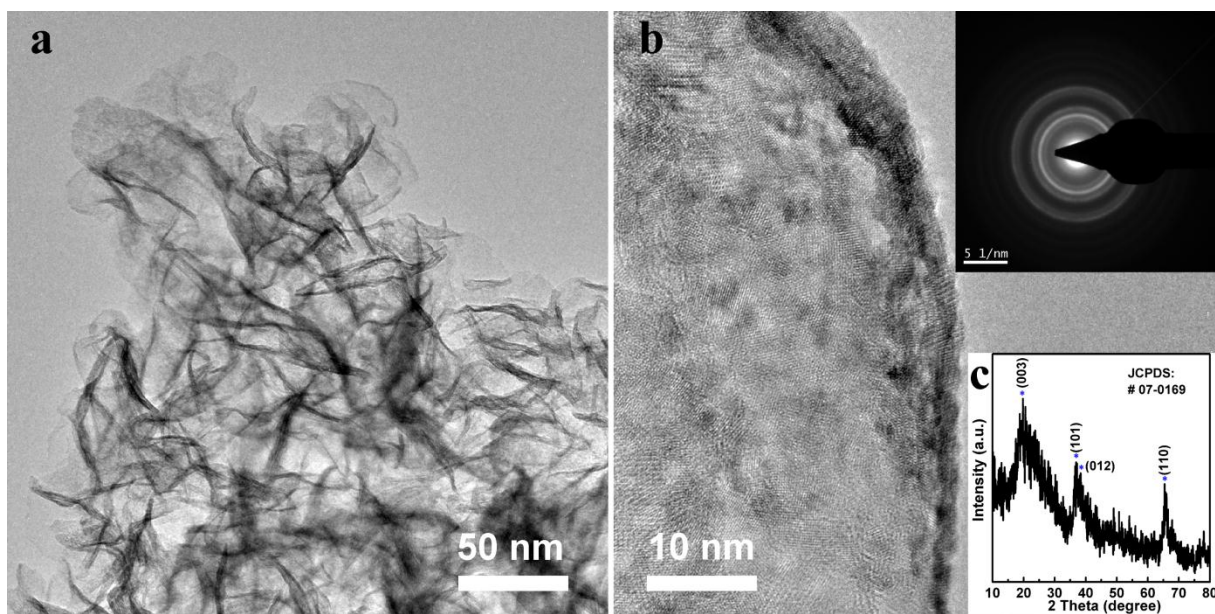


Fig. S1. (a and b) TEM and HRTEM images of precursor CoOOH nanosheets, (inset b is the corresponding SAED pattern), (c) XRD pattern of the CoOOH nanosheets.

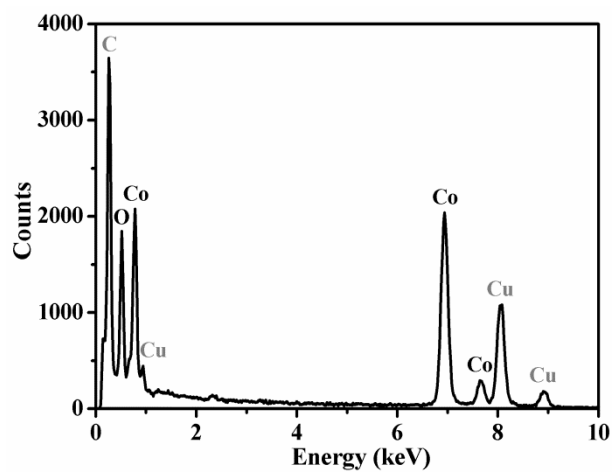


Fig. S2. An EDX spectrum of Co_3O_4 NNWs. C and Cu peaks come from the copper-carbon grid of TEM.

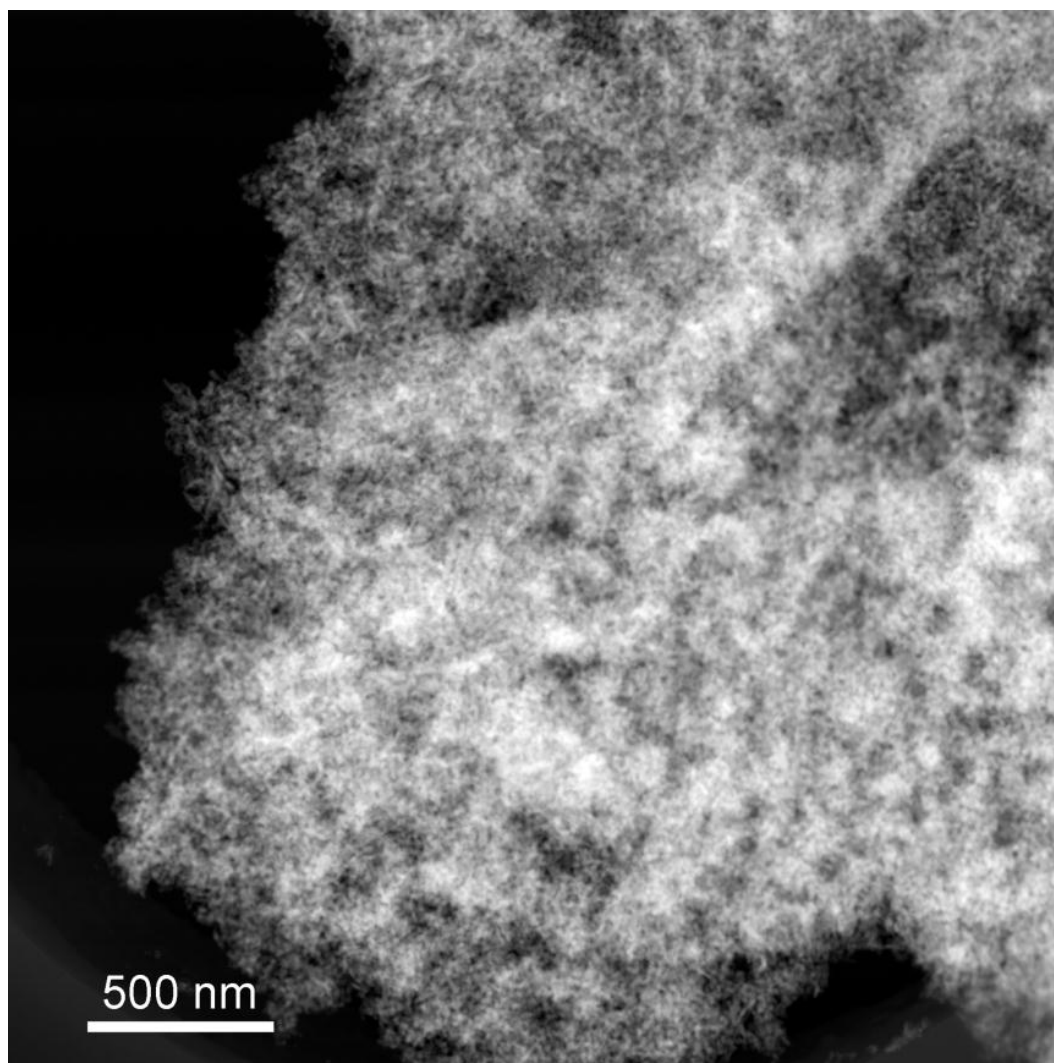


Fig. S3. HADF-STEM image of Co_3O_4 products calcined at 400 °C.

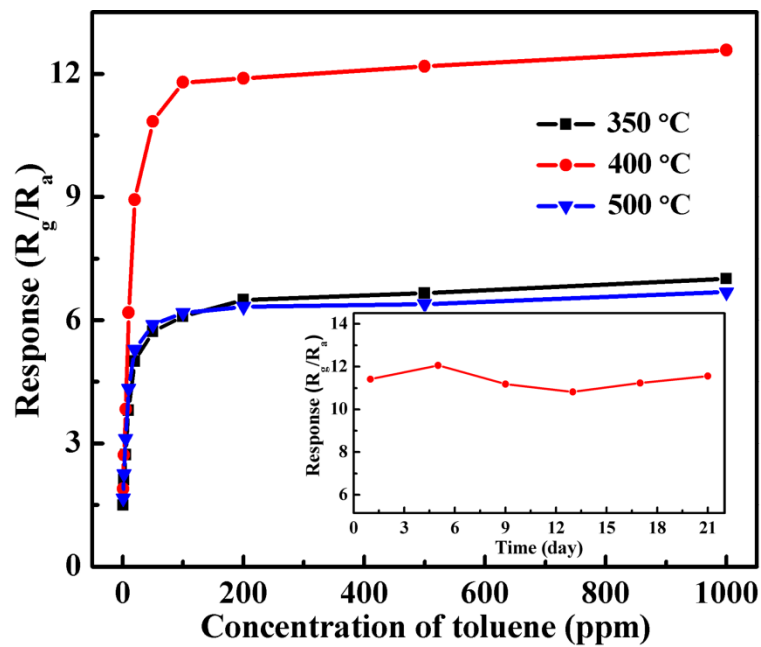


Fig. S4. Responses of the sensors *versus* the toluene concentrations range from 1 to 1000 ppm at an operating temperature of 150 °C, the inset is the stability of the sensor to 100 ppm toluene for three weeks.