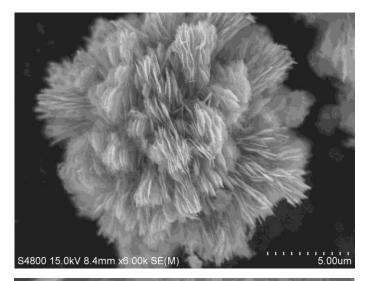
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## **Support Information**

General fabrication and enhanced gas-sensing properties of hierarchically porous metal oxides for volatile organic compounds



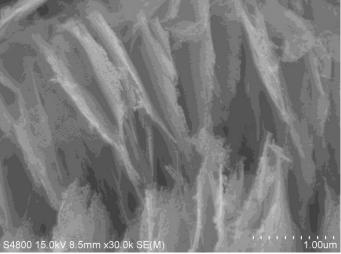


Figure S1. SEM image of porous ZnO

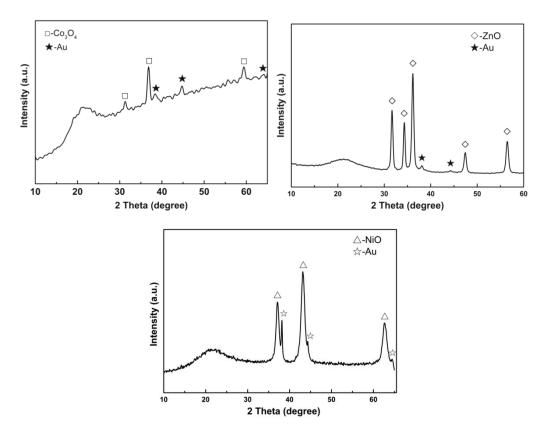


Figure S2. XRD patterns of Co<sub>3</sub>O<sub>4</sub>-Au, ZnO-Au and NiO-Au.

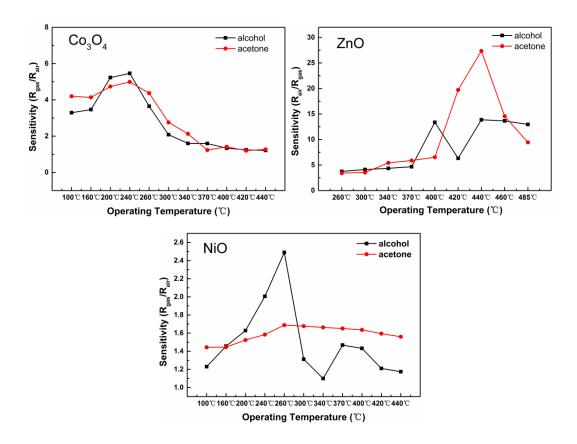


Figure S3. The best operating temperature of Co<sub>3</sub>O<sub>4</sub>, ZnO, and NiO.

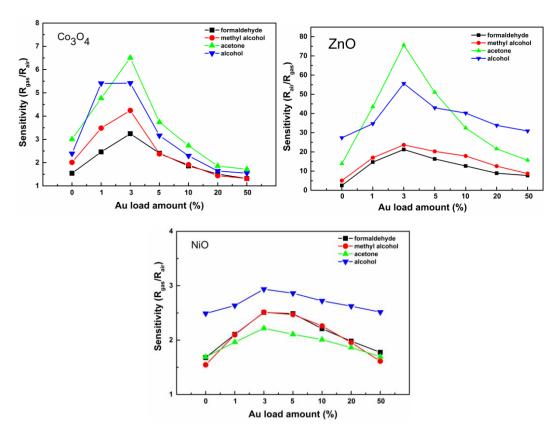


Figure S4. The best Au load amount of surface modification