Supporting information

Self-assembly of Cu_2O Monolayer Colloidal Particle Film Allows the Fabrication of CuO Sensor with Superselectivity for Hydrogen Sulfide

Zongke Xu[a], Yuanyuan Luo[b,c*], and Guotao Duan[a, b*]

[a] School of Optical and Electronic Information, Huazhong University of Science and Technology, Wuhan 430074, P. R. China

[b] Key Lab of Materials Physics, Anhui Key Lab of Nanomaterials and Nanotechnology, Institute of Solid State Physics, Chinese Academy of Science, Hefei 230031, P. R. China

[c] University of Science and Technology of China, Heifei, 230026, P. R. China

* Email: yyluo@issp.ac.cn; duangt@hust.edu.cn

Supporting information

Figure S1. Zongke Xu et al

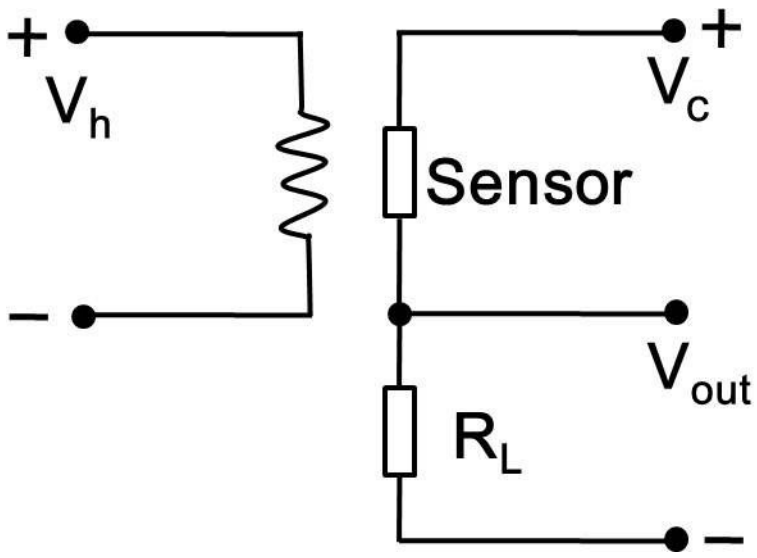

Figure S1. Simple circuit diagram of CuO sensor (V_h: heating voltage, V_c: circuit voltage, and R_L: load resistance).

Figure S2. Zongke Xu et al

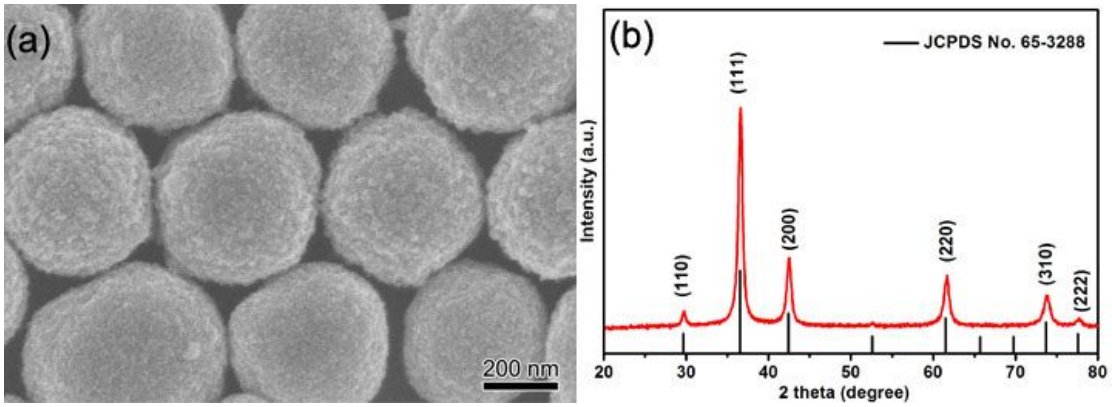

Figure S2. (a) The morphology and (b) phase characterization of the as-synthesized nearly monodisperse colloidal particles.

Figure S3. Zongke Xu et al

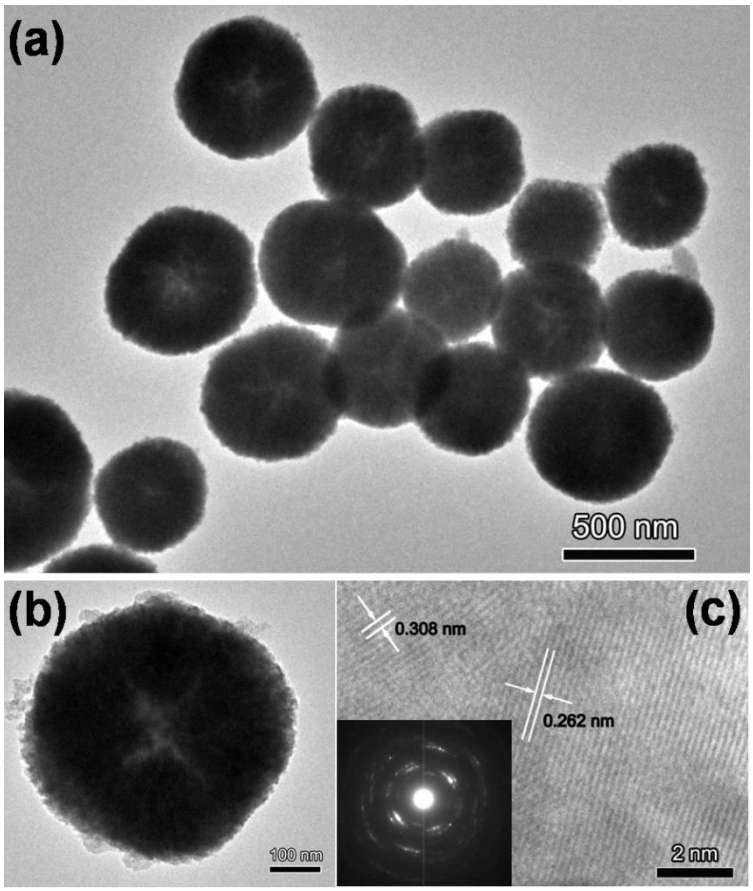

Figure S3. (a, b) The TEM and (c) HRTEM images of Cu_2O colloidal particles. The inset in (c) is the corresponding SERD pattern.