

Electronic Supplementary Information (ESI)

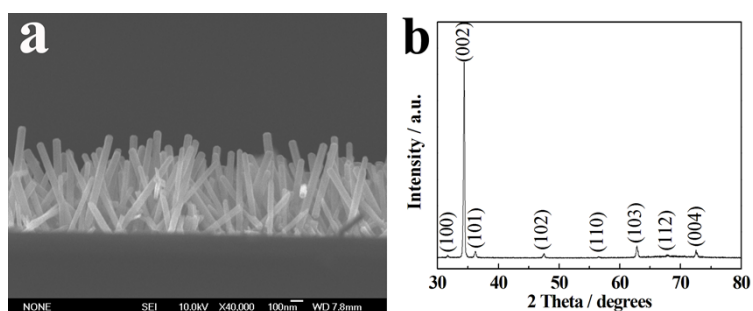


Figure S1. (a) Cross-section FE-SEM image of oriented ZnO nanorods. (b) XRD pattern of the oriented ZnO nanorods.

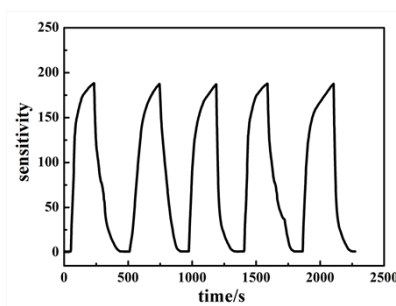


Figure S2. Repeatability test of the sensor based on passivated ZnO nanorods at optimum condition to 500 ppm H₂S.

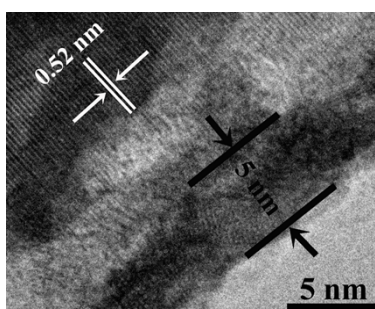


Figure S3. TEM image of ZnO nanorod passivated in 10 ppm H₂S for 300 s.

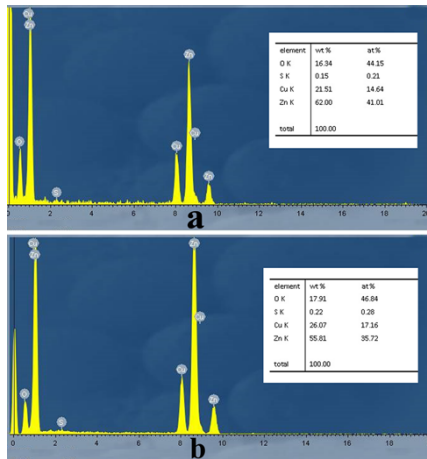


Figure S4. The EDS data of ZnO nanorods passivated in 10 ppm H₂S for different times. (a) 200 s; (b) 300 s.

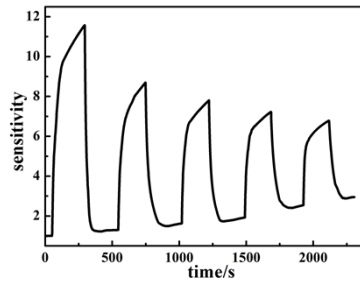


Figure S5. Repeatability of ZnO nanorods-based sensors in detection of 1 ppm H₂S after being passivated in 10 ppm H₂S for 200 s without annealing at 150°C.