

Supplementary Information

Synthesis of Cu₂O/CuO nanocrystals and their application to H₂S sensing

Kazuki Mikami ¹, Yuta Kido ¹, Yuji Akaishi ¹, Armando Quitain ², Tetsuya Kida ^{3*}

¹Department of Applied Chemistry and Biochemistry, Graduate School of Science and Technology, Kumamoto University, Japan

²College of Cross-Cultural and Multidisciplinary Studies, Kumamoto University, Japan

³ Faculty of Advanced Science and Technology, Kumamoto University, Japan

* Correspondence: tetsuya@kumamoto-u.ac.jp; Tel.: +81-96-342-3664 (T.K.)

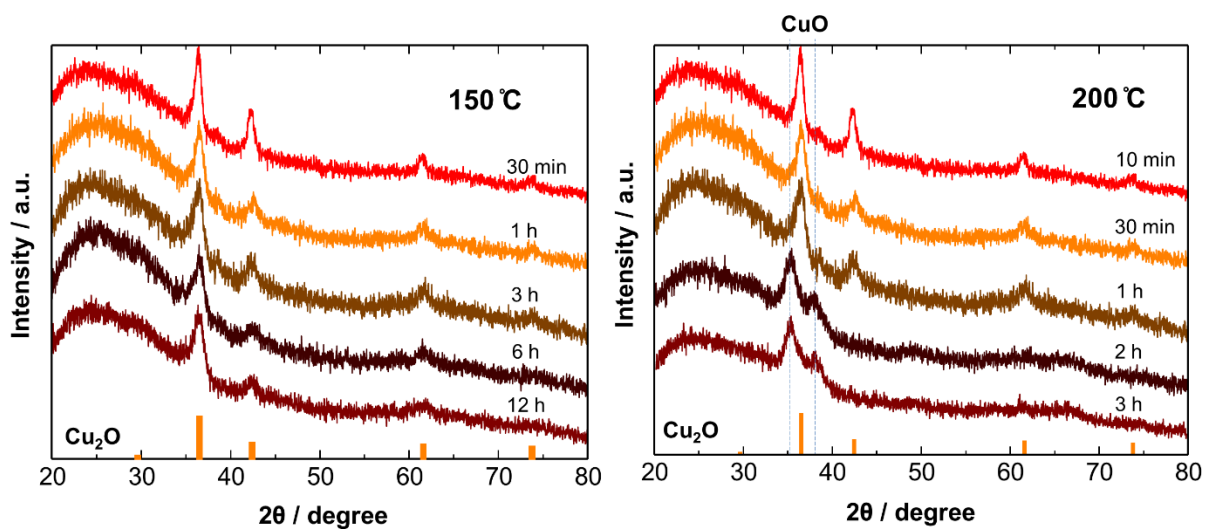


Figure S1. XRD patterns of Cu_2O NCs deposited on a Si substrate heated at 150 and 200°C for different periods.

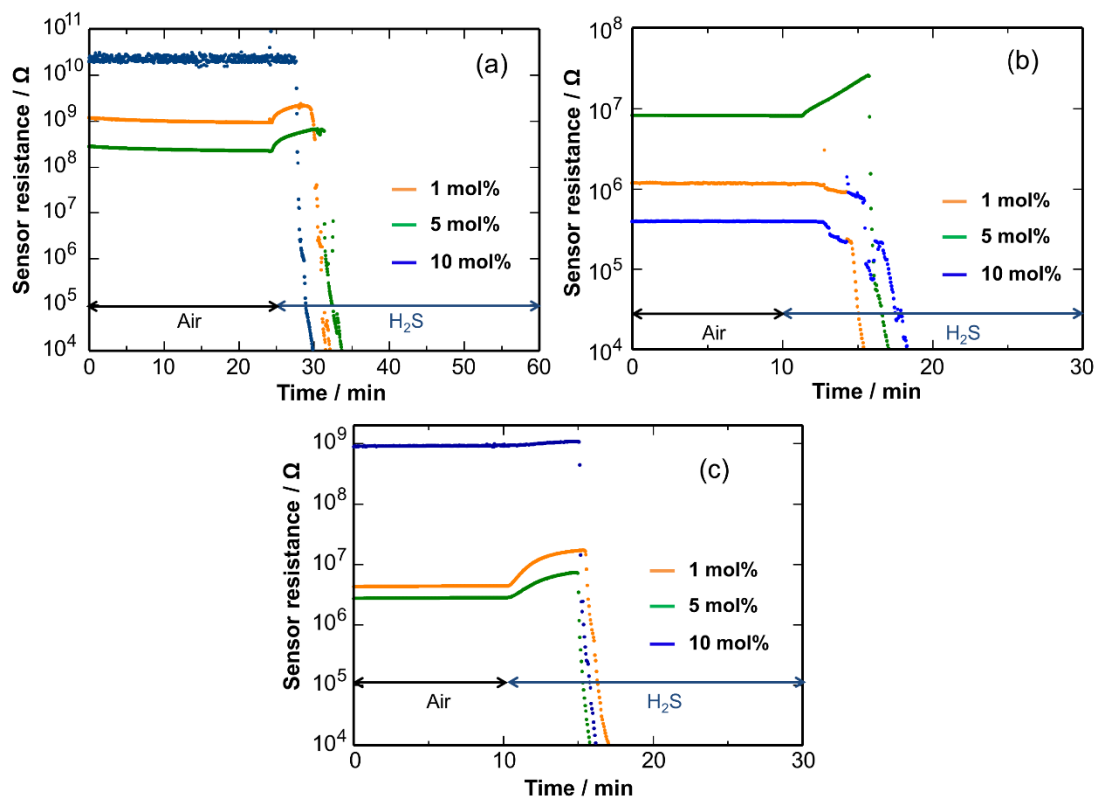


Figure S2. Response transients to 8 ppm H_2S in air for the Pd (1, 5, 10 mol%)- CuO NC sensors at different temperatures. (a) 50, (b) 100, (c) 150°C.