

Supporting Information

Au@Cu₂O Core-Shell Nanoparticles as Chemiresistor for Gas Sensor Applications: Effect of potential barrier modulation on sensing performance

Prabhakar Rai,^a Rizwan Khan,^a Sudarsan Raj,^a Sanjeet Manohar Majhi,^a Yeon-Tae Yu,^{a}*

In-Hwan Lee,^a Praveen Kumar Sekhar^b

^aDivision of Advanced Materials Engineering and Research Centre for Advanced Materials
Development, College of Engineering, Chonbuk National University, Jeonju 561-756,

Republic of Korea

^bNanomaterials and Sensor Laboratory, School of Engineering and Computer Science,
Washington State University Vancouver, 14204 NE Salmon Creek Avenue, Vancouver,

WA 98686, United States

*Corresponding Author: Y.-T. Yu (E-Mail: yeontae@jbnu.ac.kr, Tel: +82-63-270-2288, Fax:
+82-63-270-2305).

Figure S2 TEM image bare Cu_2O NPs.

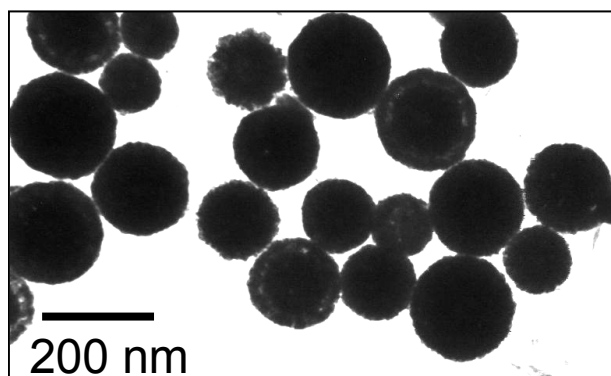


Figure S2 XRD profile of $\text{Au}@\text{Cu}_2\text{O}$ core-shell NPs.

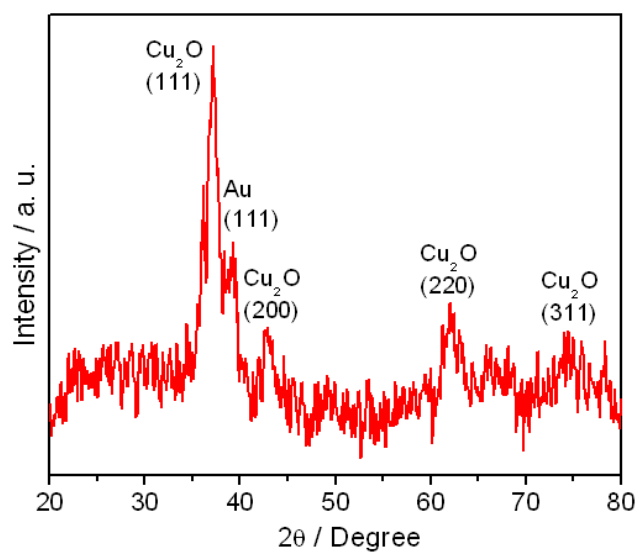


Figure S3 Response transient of bare Cu_2O and $\text{Au@Cu}_2\text{O}$ core-shell NPs at different temperatures; (a) 50, (b) 100, (c) 150 and (d) 200°C.

