

Supporting Information

Template-free synthesis of $\text{Cu}_2\text{O}-\text{Co}_3\text{O}_4$ core-shell composites and their application in gas sensing

Fengdong Qu ^a, Yongfan Wang ^a, Ying Wang ^a, Shanpeng Wen ^{*b}, Yu Chen ^{*c} and Shengping Ruan ^{*a}

^a State Key Laboratory on Integrated Optoelectronics, Changchun 130012, PR China. Fax: +86-431-85168242; Tel: +86-431-85168242; E-mail: ruansp.jlu@gmail.com

^b College of Electronic Science and Engineering, Changchun 130012, PR China. E-mail: sp-wen@jlu.edu.cn

^c Institute of Semiconductors, Chinese Academy of Sciences, Beijing 100083, PR China. E-mail: chenyu1099@126.com

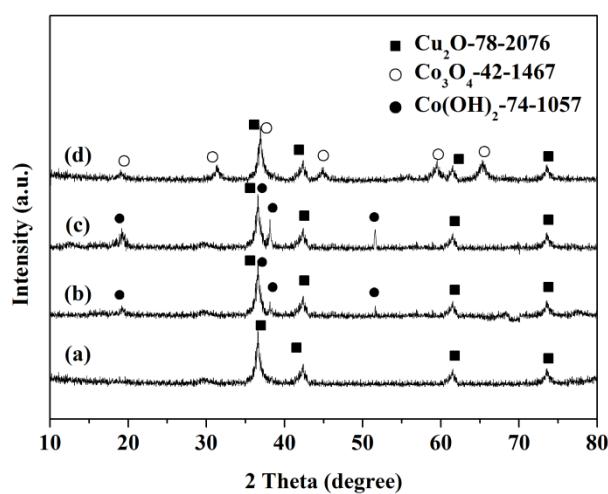


Fig.S1 XRD patterns of the products obtained at the reaction time of (a) 2 h, (b) 5 h, (c) 10 h, and the products after being calcined at 300 °C for 1 h (reaction time is 10 h).

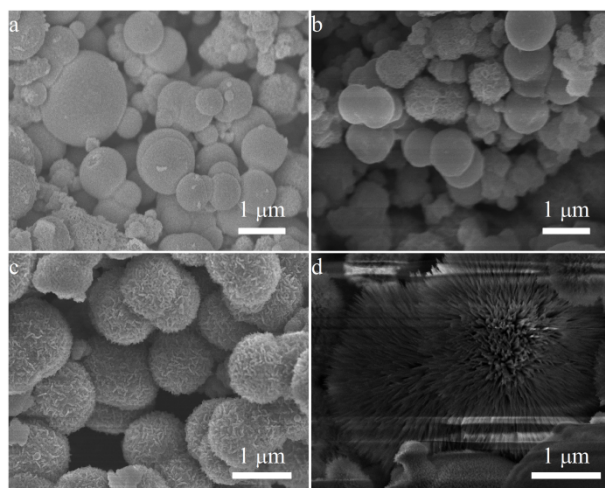


Fig.S2 SEM images of the products obtained with Cu/Co molar ratio of 1:0 (a), 2:1 (b), 1:2 (c), and 0:1 (d).