Electronic Supplementary Material (ESI) for New Journal of Chemistry. This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2021

Supporting Information

Bimetallic organic frameworks derived SnO₂/Co₃O₄

heterojunction for highly sensitive acetone sensor

Lixia Sun^{a, b}, Xueling Yuan^b, Jianhua Sun^{b,*}, Kewei Zhang^c, Dankui Liao^b, Shan Chen^{a,*}

^a College of light industry and food engineering, Guangxi University, Nanning 530004, China

^b Guangxi Key Laboratory of Petrochemical Resource Processing and Process Intensification Technology, School of Chemistry and Chemical Engineering, Guangxi University, Nanning 530004, China

^c State Key Laboratory of Bio-fibers and Eco-textiles, Collaborative Innovation Center of Shandong Marine Biobased Fibers and Ecological Textiles, College of Materials Science and Engineering, Institute of Marine Biobased Materials, Qingdao University, Qingdao 266071, China

*Corresponding author.

E-mail addresses: chenshan@gxu.edu.cn (S. Chen), sunjhgx@163.com (J.H. Sun).



Fig. S1. TG-DTG-DTA curves of precursors.



Fig. S2. Response of Co₃O₄/SnO₂ composites

at different calcination temperature for 50 ppm acetone.



Fig. S3 (a-e) Low-resolution FESEM images of SnCo, 2SnCo, 3SnCo, 4SnCo, 5SnCo