## **Electronic Supplementary Information**

## Gas sensing properties of self-assembled ZnO nanotube bundles

## Qingjiang Yu,\*<sup>*a*</sup> Cuiling Yu,\*<sup>*b*</sup> Jinzhong Wang,<sup>*c*</sup> Fengyun Guo,<sup>*c*</sup> Shiyong Gao,<sup>*c*</sup> Shujie Jiao,<sup>*c*</sup> Hongtao Li,<sup>*c*</sup> Xitian Zhang,<sup>*d*</sup> Xuanzhang Wang,<sup>*d*</sup> Hong Gao,<sup>*d*</sup> Haibin Yang\*<sup>*e*</sup> and Liancheng Zhao<sup>*c*</sup>

<sup>a</sup> Department of Photoelectric Information Science and Engineering, School of Materials Science and Engineering, Harbin Institute of Technology, Harbin, 150001, China; Key Laboratory for Photonic and Electric Bandgap Materials, Ministry of Education, Harbin Normal University, Harbin, 150025, China. Fax: +86 451 86418328; Tel: +86 451 86417763; E-mail: qingjiang.yu@hit.edu.cn

<sup>b</sup> Department of Physics, Harbin Institute of Technology, Harbin, 150001, China. Fax: +86 451 86418328; Tel: +86 451 86417763; E-mail: cuiling.yu@hit.edu.cn

<sup>c</sup> Department of Photoelectric Information Science and Engineering, School of Materials Science and Engineering, Harbin Institute of Technology, Harbin, 150001, China

<sup>d</sup> Key Laboratory for Photonic and Electric Bandgap Materials, Ministry of Education, Harbin Normal University, Harbin, 150025, China

<sup>e</sup> State Key Laboratory of Superhard Materials, Jilin University, Changchun, 130012, China. Fax: +86 431 85168763; Tel: +86 431 85168763; E-mail: yanghb@jlu.edu.cn



Fig. S1  $N_2$  adsorption-desorption isotherms of the ZnO nanotube bundles and ZnO nanorod bundles.