

Supporting Information For

Enhanced Gas Sensing Properties of ZnO/SnO₂ Hierarchical Architectures by Glucose-induced Attachment

Cheng Chao Li,^{a,b} Xiao Ming Yin^b and Tai Hong Wang^{b,*}

^a Key Laboratory for Micro-Nano Optoelectronic Devices of Ministry of Education and State Key Laboratory of Chemo/Biosensing and Chemometrics,

Hunan University, Changsha, 410082, P. R. China

^b Department of Chemical and Biomolecular Engineering, Faculty of Engineering, National University of Singapore, 10 Kent Ridge Crescent, Singapore 119260

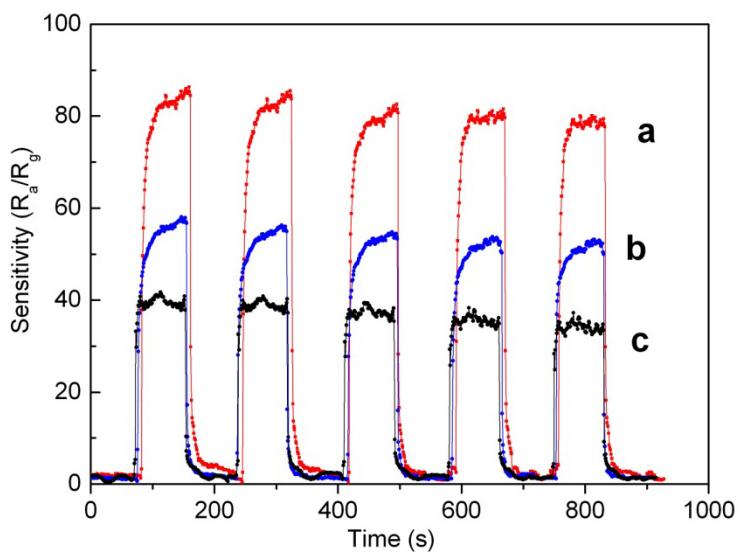


Figure SI1. Reproducibility characterization of the sensors when exposed to 300 ppm ethanol.

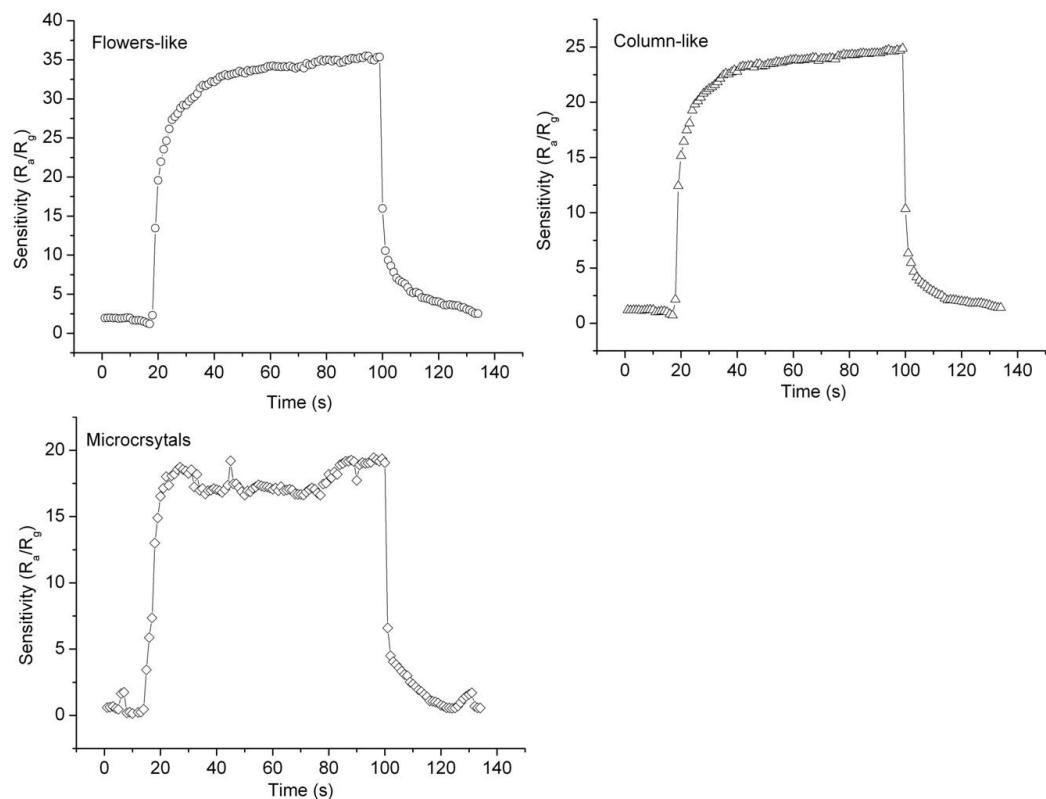


Figure SI2. Enlarged response and recovery processes of the ZnO/SnO₂ nanostructures (a. flowers-like, b. column-like, c. microcrystals) when exposed to 100 ppm ethanol.

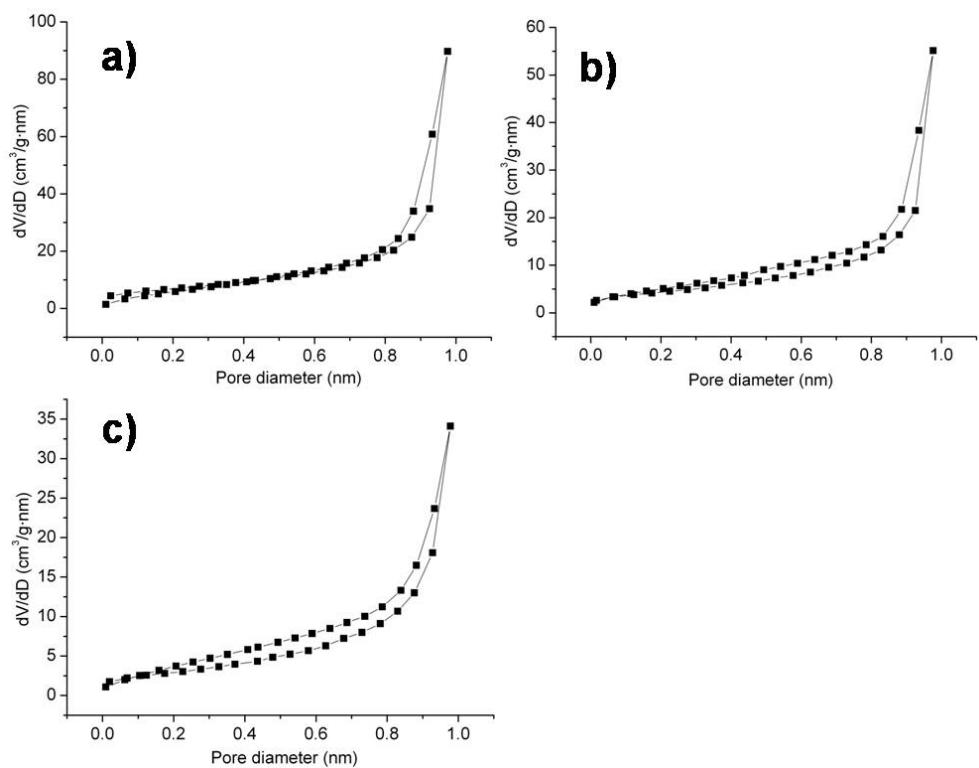
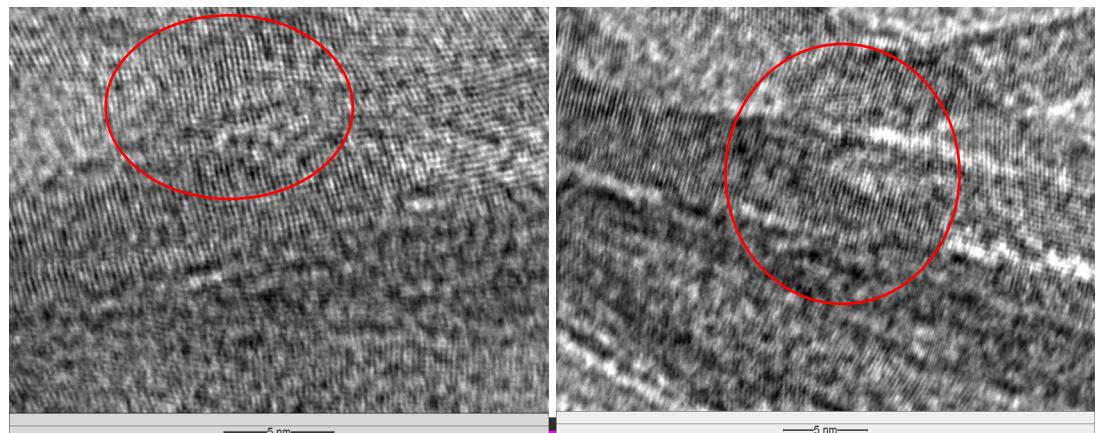


Figure SI3. Nitrogen physisorption isotherm curves of the ZnO/SnO_2 nanostructures (a. flowers-like, b. column-like, c. microcrystals).

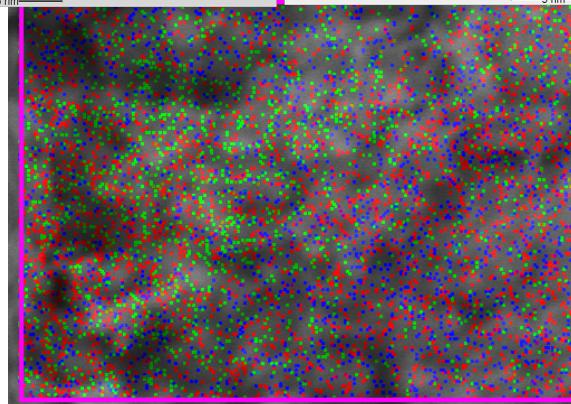
SI4: Flowers-like nanostructures



Red: Oxygen

Blue: Tin

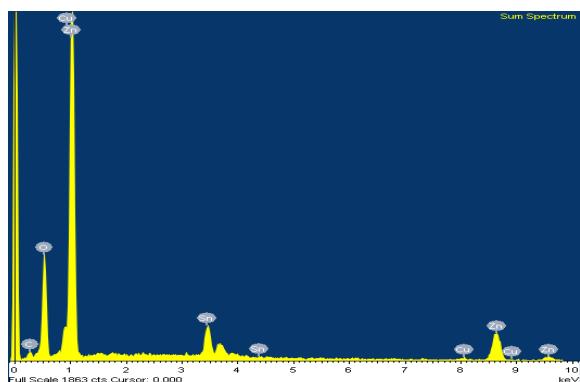
Green: Zn



Zn Ka1

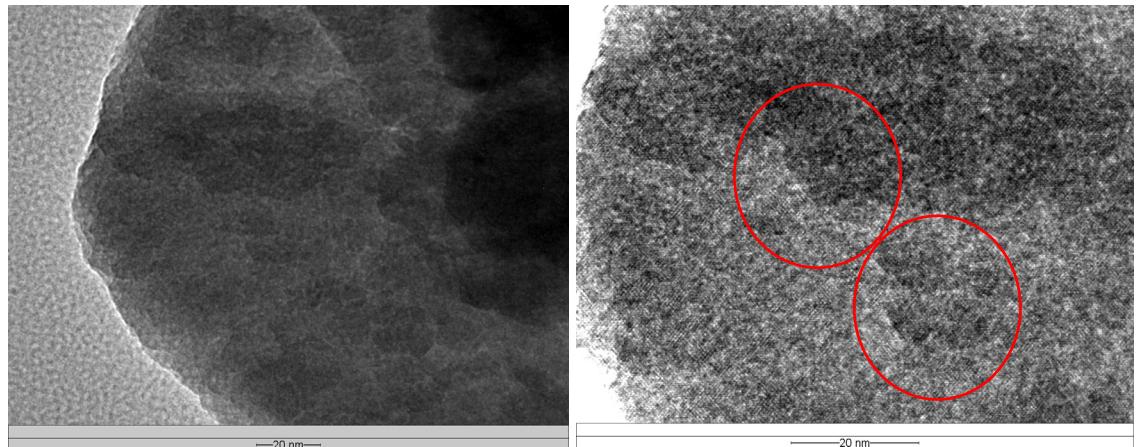


Sn La1

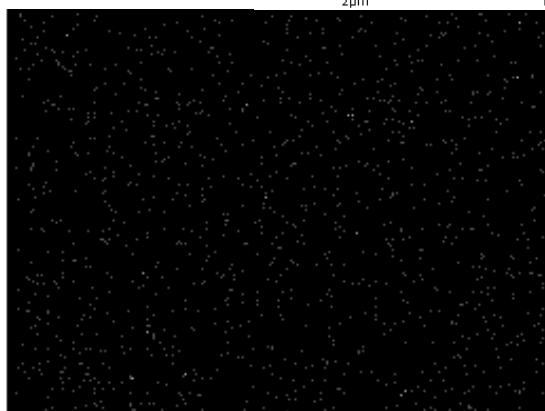
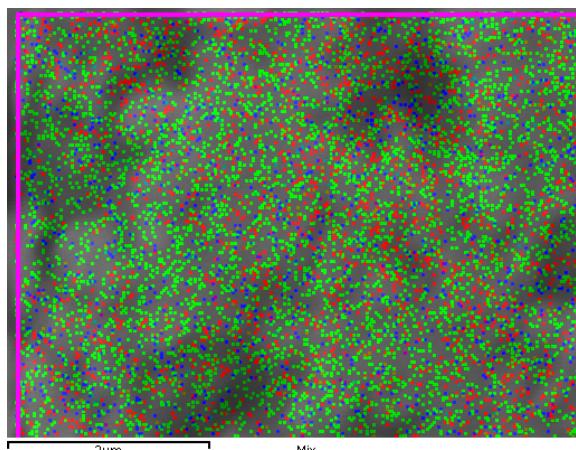


Element	Weigh t%	Atomic %
O K	27.20	62.55
Zn L	58.85	33.12
Sn L	13.96	4.33
Totals	100.00	

Nanoplate-stacking column



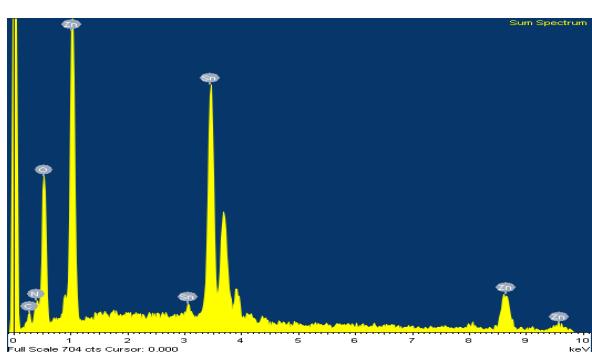
Red: Oxygen
Blue: Tin
Green: Zn



Zn Ka1



Sn La1



Element	Weight%	Atomic%
O K	29.02	64.01
Zn L	61.37	33.13
Sn L	9.61	2.86
Totals	100.00	

Octahedral particles:

