Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.

Supporting Information

Controlled growth of conical nickel oxide nanocrystals and their high performance gas sensing devices for ammonia molecules detection

Jian Wang,*[a] Fan Yang,[a] Xiaowei Wei,[a] Yafei Zhang,[b] Liangming Wei,[b] Jianjun Zhang,[a] Qifeng Tang,[a] Biao Guo[a] and Lei Xu[a]

[a] *School of Materials Science and Engineering, Xihua University, Chengdu, Sichuan, 610039, P. R. China. Fax: +86 28 8772 2198; Tel: +86 28 8772 8746; E-mail: wangjianxhu@163.com*

[b] *Key Laboratory for Thin Film and Microfabrication of the Ministry of Education, Research Institute of Micro/Nano Science and Technology, Shanghai Jiao Tong University, Shanghai, 200240, P. R. China*

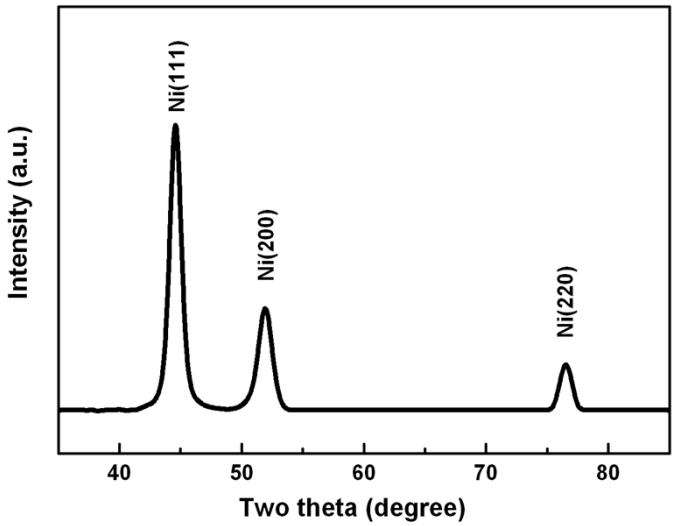

Figure S1. XRD pattern of the unoxidized nanocones confirming formation of cubic structure Ni.

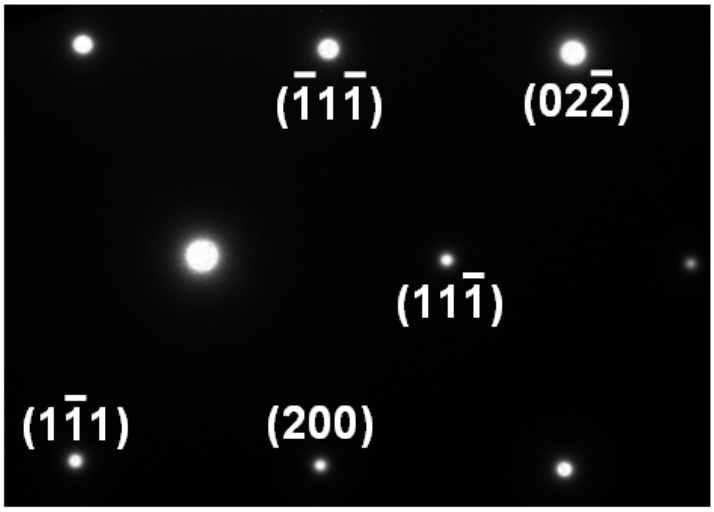

Figure S2. SAED pattern of NiO nanocone confirming the single-crystal nature of nanocone.

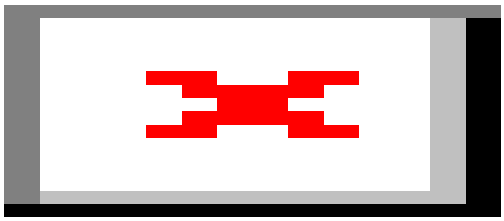

Figure S3. Nitrogen adsorption-desorption isotherms of both the pure NiO foil (A) and the NiO foil covering with NiO nanocones (B).