

Supporting Information

One-pot Synthesis of Mesoporous Spherical SnO₂@Graphene for High Sensitivity Formaldehyde Gas Sensors

Shuai Chen,^a Yan Qiao,^{a,d} Jianlin Huang,^c Huanli Yao,^b Yuanli Zhang,^a Yuan Li,^a

*Jianping Du,^{*b} and Weibin Fan^{*a,d}*

^aAnalytical Instrumentation Center, Institute of Coal Chemistry, Chinese Academy of Sciences, Taiyuan 030001, P. R. China

^bCollege of Chemistry and Chemical Engineering, Taiyuan University of Technology, Taiyuan 030024, P. R. China

^cNew Energy Research Institute, School of Environment and Energy, South China University of Technology, Guangzhou 510006, P. R. China

^dState Key Laboratory of Coal Conversion, Institute of Coal Chemistry, Chinese Academy of Science, Taiyuan 030001, P. R. China.

The structure characterization of graphene and SnO₂

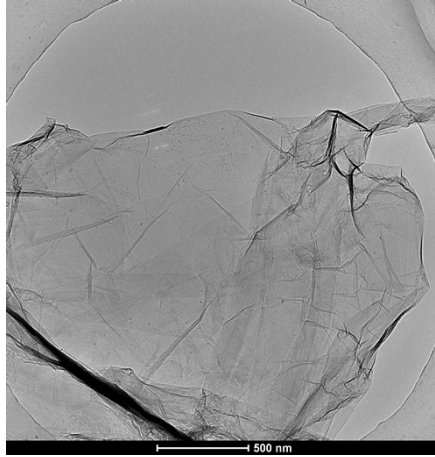


Fig. S1 TEM image of Graphene

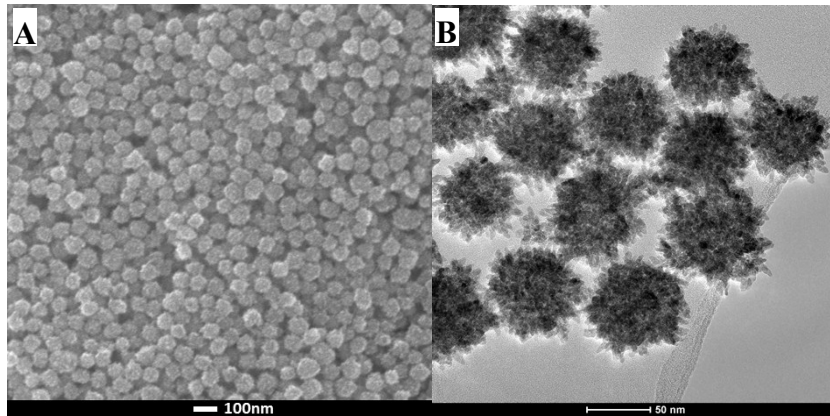


Fig. S2 SEM image (A) and TEM image (B) of mSnO₂

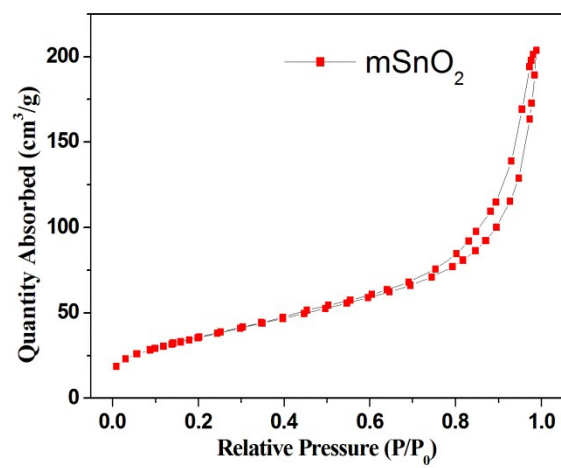


Fig. S3 N₂ adsorption-desorption isotherms of mSnO₂