

Supplementary data

Selectivity[†]

Selectivity studies have been done towards various vapours and NO₂ gas. Since, there was already an report of NO₂ sensing studies of ZnO-V₂O₃¹, we have checked our nanosheet's sensing performance towards NO₂ gas. Vapour sensing studies have been performed in the home-made vapour sensing setup as mentioned in our manuscript. NO₂ gas sensing studies have been done in an customized gas-sensing chamber as reported elsewhere^{2,3}.

References:

- 1 Yuan-Chang Liang and Yu-Ru Cheng, *CrystEngComm*, 2015, **17**, 5801–5807.
- 2 A. K. Prasad, S. Amirthapandian, S. Dhara, S. Dash, N. Murali and A. K. Tyagi, *Sensors Actuators, B Chem.*, 2014, **191**, 252–256.
- 3 P. Dhivya, A. K. Prasad and M. Sridharan, *Int. J. Hydrogen Energy*, 2012, **37**, 18575–18578.