

Supplementary Information for:

Supramolecular Fabrication of Multilevel Graphene-based Gas Sensors with High NO₂ Sensibility

Zhuo Chen,^{1,a} Ahmad Umar,^b Yao Wang,^{*,a} Tong Tian,^a Ying Shang,^a Yuzun Fan,^a Qi Qi,^c Dongmei Xu,^c and Lei Jiang^{a,d}

^aKey Laboratory of Bio-Inspired Smart Interfacial Science and Technology of Ministry of Education, School of Chemistry and Environment, Beihang University, Beijing 100191, P R China.

^bDepartment of Chemistry, Faculty of Science and Arts, and Promising Centre for Sensors and Electronic Devices (PCSED), Najran University, Najran 11001, Kingdom of Saudi Arabia

^cGas and Humidity Sensing Department, Beijing Elite Tech Co., Beijing 100850, PR China

^d Beijing National Laboratory for Molecular Sciences(MNLMS), Key Laboratory of Organic Solid, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China

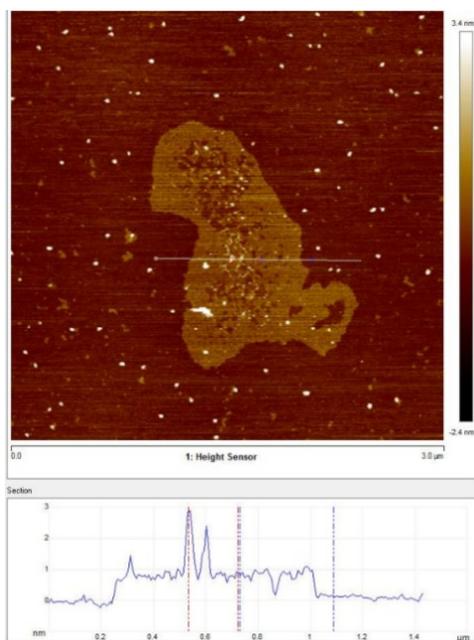
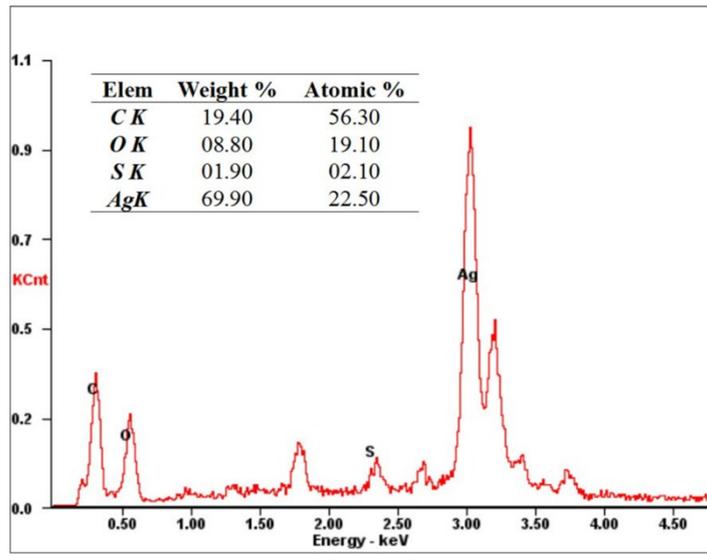


Figure S1. Scan-mode AFM images and cross-section graphs of Ag-NA-rGO dispersion dip-coated on mica.



FigureS2. The EDS analysis of Ag-NA-rGO.

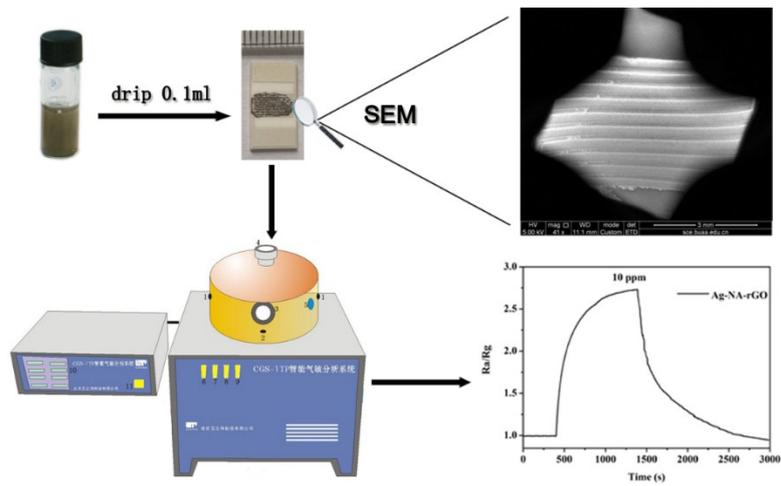


Chart S1 A flow chart of gas sensitivity test.

Table S1 The Raman shift, Peak intensity, Intensity ratio (I_D/I_G) of the above four sensors.

Sample	Raman shift (cm^{-1})		Peak intensity		Intensity ratio (I_D/I_G)
	Peak D	Peak G	Peak D	Peak G	
Ag-NA-rGO	1328.94	1597.15	10951.68	8135.95	1.35
NA-rGO	1334.28	1597.15	761.63	566.29	1.34
rGO	1330.01	1597.15	604.64	447.52	1.35
GO	1330.01	1598.22	1099.44	954.19	1.15