Electronic Supplementary Material (ESI) for RSC Advances.

One Step Synthesis of Flower-like WO_3 Nanostructures for High Sensitivity Room Temperature NO_x Gas Sensor

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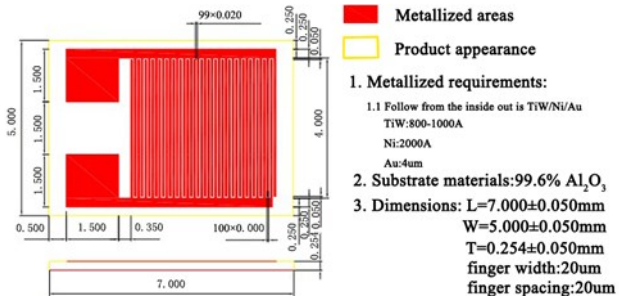

Fig. S1 The image of interdigitated gold electrode and its parameters.

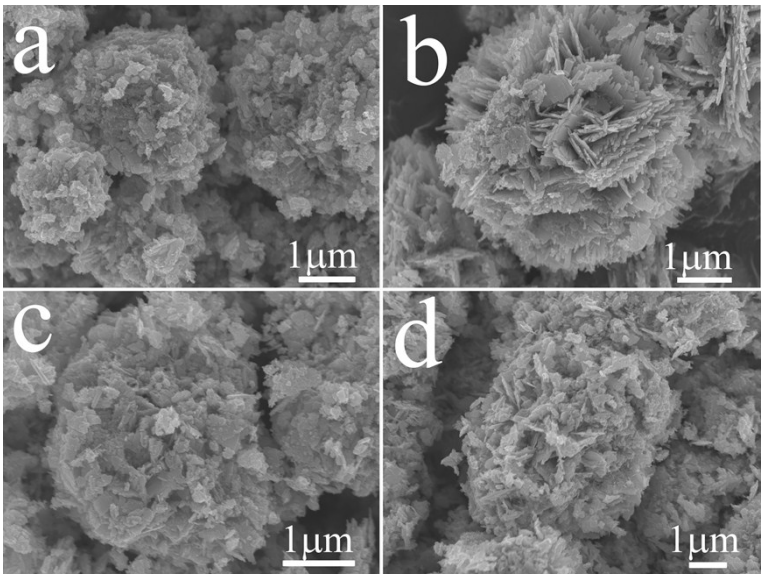

Fig. S2 Morphology controlling of the flower-like WO_3: (a) 0.2 g PEG; (b) 0.4 g PEG; (c) 0.6 g PEG; (d) 0.8 g PEG.

Table S1 The gas sensing performance of WO_3 sensors to NO_x gas

	Material	**Operating temperature**	**Sensitivity**	**Response time**	**Lowest detectable limit (ppm)**	**year**
	WO_3	Room temperature	80%	4.5 s	0.1 ppm	Our work
[1]	WO_3 nanorods/graphene nanocomposites	300 °C	20200%	----	25 ppb	2012
[2]	WO_3	200 °C	16000%	2.4 min	20 ppb	2015
[3]	hierarchically porous WO_3	200 °C	90%	46 s	----	2015
[4]	hierarchically WO_3 hollow nanospheres	100 °C	>80%	88 s	40 ppb	2015
[5]	3D WO_3 nanocolumn bundles	110 °C	2050%	23 s	----	2015
[6]	WO_3 nanorods	200 °C	20900%	----	5 ppm	2012
[7]	WO_3 microshperes	170 °C	15700%	----	10 ppm	2014

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