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Supporting information

Table S1. Comparison of gas-sensing characteristics and response time of disordered porous SnO₂ matrix material and CuO/SnO₂ aerogel composite material.

NO., () →	100	50	30	10	5	3	2	1	100	50	30	10	5	3	2	1
NOx conc. $(ppm) \rightarrow$	100	50	50	10	3	J	_	1	100	30	50	10	5	J	_	1
				Respons	se (%)						Respo	nse Tim	e (s)			
Disordered porous SnO ₂ material	54	52	50	44	40	-	-	-	19.5	21	25	25.5	26	-	-	
Disordered porous CuO/SnO ₂ aerogel composite material	74	67	66	64.8	47	40.7	23	15	7	8	8	8	16	24	25	26

Table S2. Comparison of gas-sensing characteristics of disordered porous CuO/SnO₂ sensor towards the different gas.

Gas Conc.(ppm)→	100	50	30	20	10	5	3	2	1	
Response (%)										
NOx	74	67	66	65	64.8	47	40.7	23	15	
NH_3	51	44	38	29	28	27	26	20	0	
H_2	0	0	0	0	0	0	0	0	0	
O_2	0	0	0	0	0	0	0	0	0	
N_2	0	0	0	0	0	0	0	0	0	