

## Highly Selective Room-Temperature Ammonia Gas Sensor Based on Sheet-like Ni<sub>x</sub>C/ZnO Heterojunction

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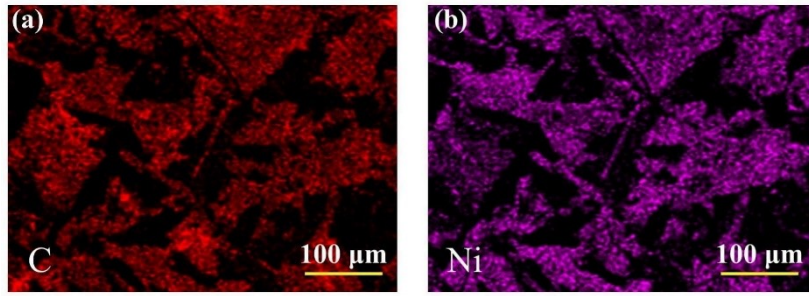


Figure. S1. Elemental mappings images of S0 sensor.

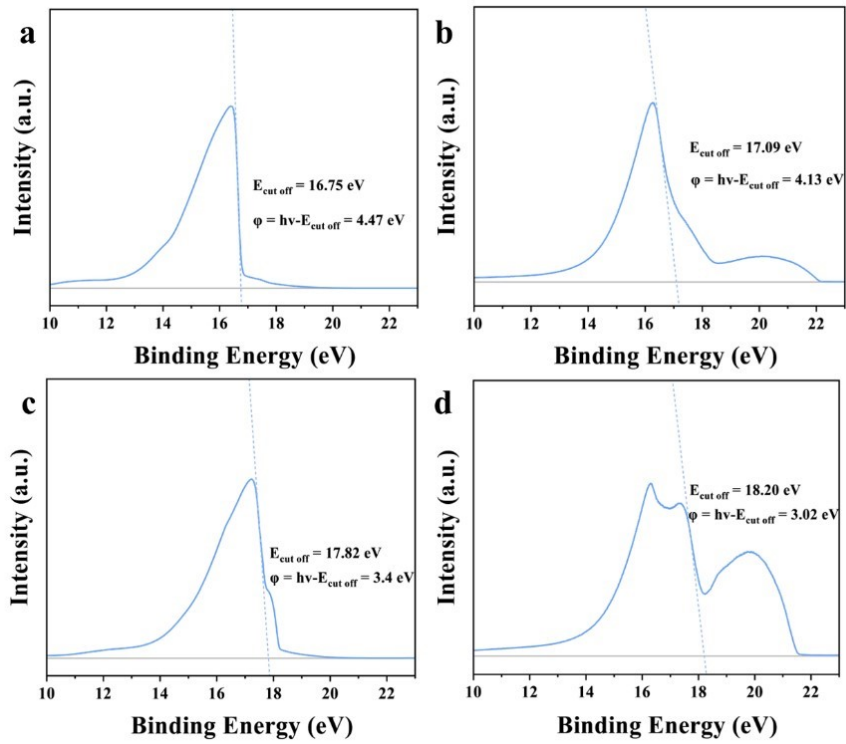


Figure. S2. UPS spectra of (a) S3 sensor, (b) S0 sensor, (c) S1 sensor and (d) S2 sensor.

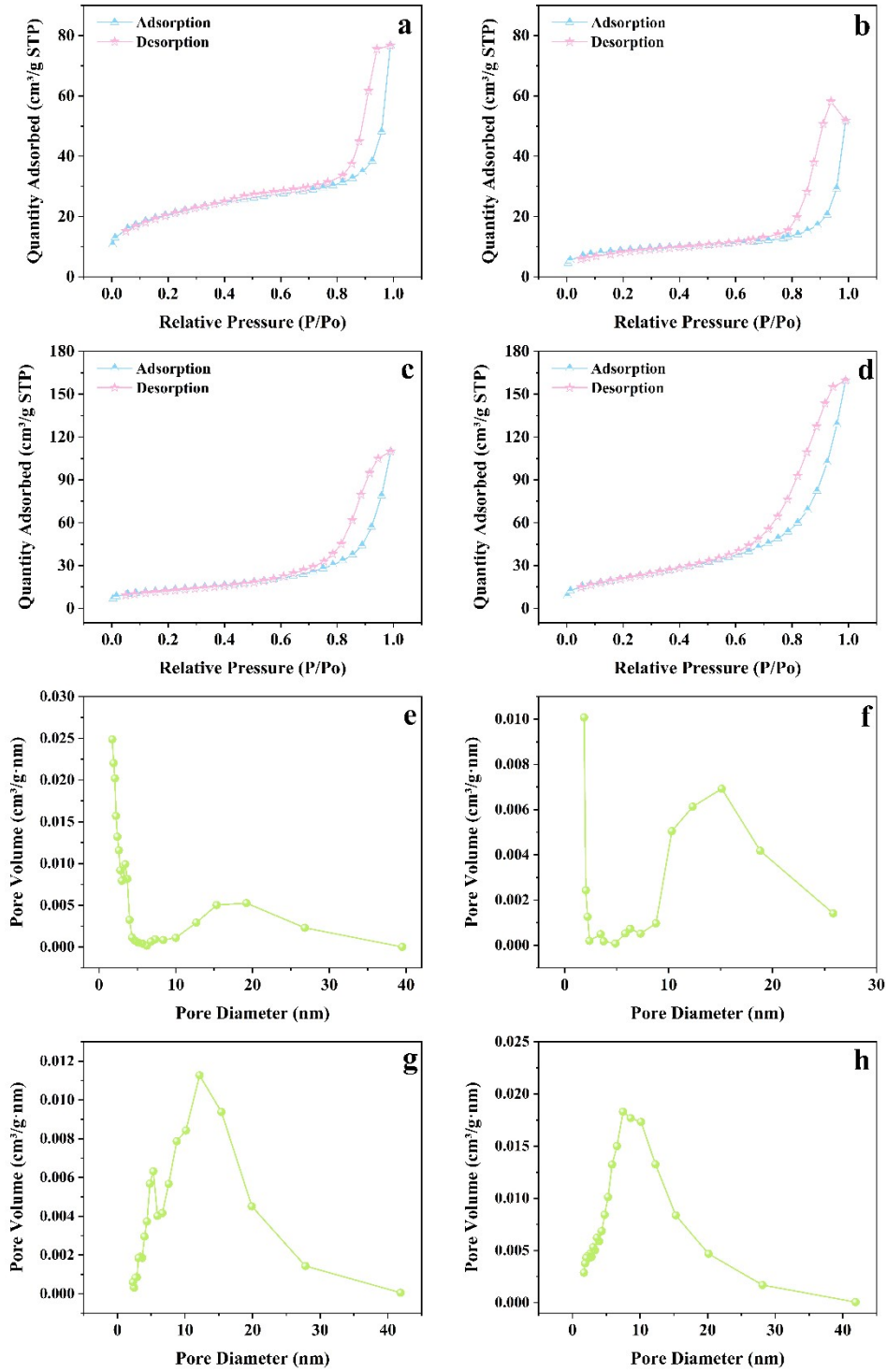


Figure. S3. N<sub>2</sub> adsorption-desorption isotherms of (a) S3 sensor, (b) S0 sensor, (c) S1 sensor, (d) S2 sensor, and BJH pore size distribution curves of (e) S3 sensor, (f) S0 sensor, (g) S1 sensor, (h) S2 sensor.

Table S1. BET surface area, total pore volume and desorption average pore of S0-S3 sensors.

<b>Sensor</b>	<b>BET Surface Area (m<sup>2</sup>/g)</b>	<b>Total pore volume (cm<sup>3</sup>/g)</b>	<b>Desorption average pore diameter (nm)</b>
S0	29.39	0.08	12.61
S1	44.78	0.16	12.15
S2	77.12	0.24	9.50
S3	71.73	0.11	6.83