

# Supplementary Materials

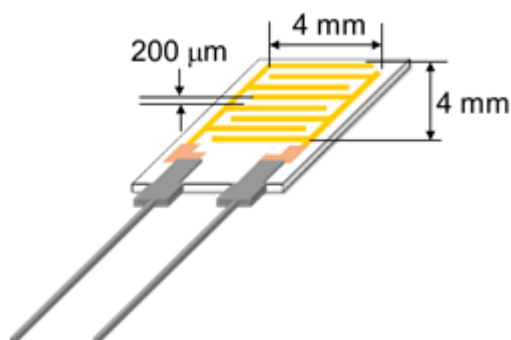
## Highly Sensitive Ammonia Gas Sensor Using Micrometer-Sized Core-Shell Type Spherical Polyaniline Particles

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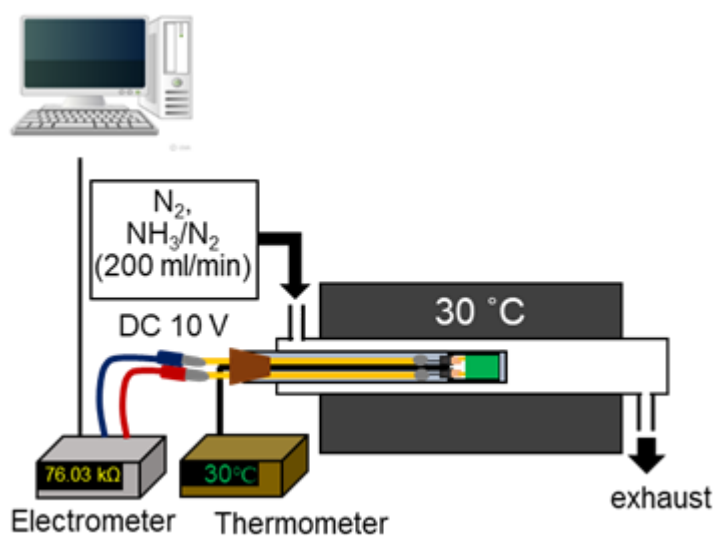
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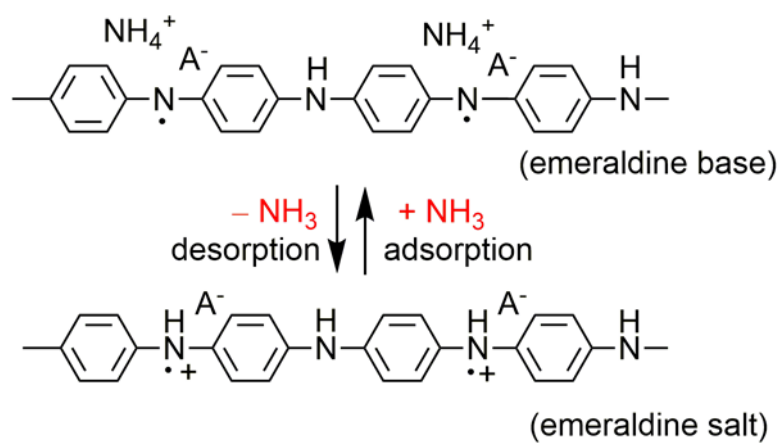


**Figure S1.** Illustration of an alumina substrate having a pair of interdigitated gold electrodes.



**Figure S2.** Experimental setup used for NH<sub>3</sub> gas sensing measurement.

Low conductivity



High conductivity

**Figure S3.** Sensing mechanism of PANI-based  $\text{NH}_3$  gas sensors.