Supplementary Material (ESI) for PCCP

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Supplementary Information

Figure S1. Schematic setup of the gas-sensing measurement.

Figure S2. XRD pattern of Cu₂O nanocubes.

Figure S3. A) FESEM image of Cu₂O nanocubes. Inset: high magnification image of

two Cu₂O nanocubes. B) TEM image of Cu₂O nanocubes. Inset: the SAED of one

cubic Cu₂O. Scale bar: 400 nm.

Figure S4. PL spectra of the obtained Cu₇S₄ nanoboxes with A) single wall, and B)

double walls with exciting wavelength of 370 nm.

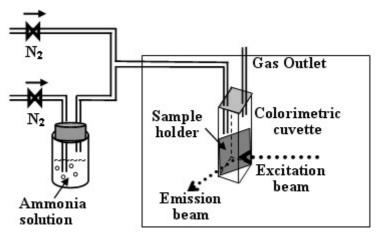
Figure S5. Room temperature time profiles of PL intensity of sensor based on

double-walled Cu₇S₄ nanoboxes to NH₃ for 20 cycles.

Figure S6. Time profiles of PL intensity of sensors based on A) single-walled and B)

double-walled Cu₇S₄ nanoboxes to water vapor at room temperature.

Figure S1



Fluorescence Spectrophotometer

Figure S2

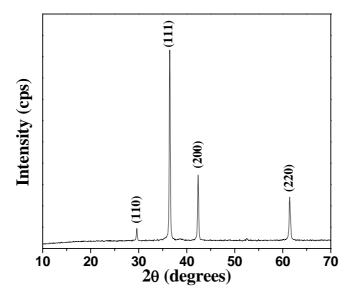


Figure S3

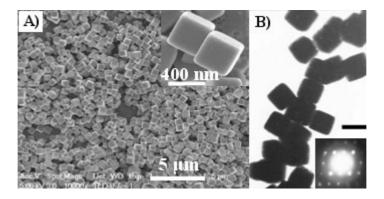


Figure S4

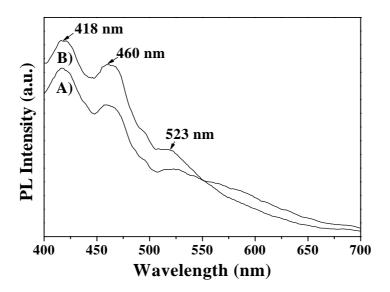


Figure S5

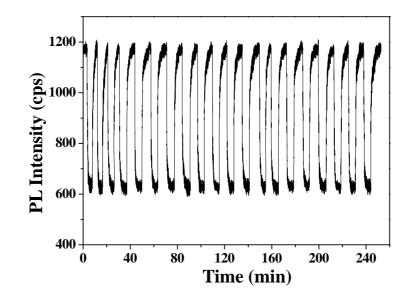


Figure S6

