

A Flexible and Attachable Colorimetric Film Sensor for the Detection of Gaseous Ammonia

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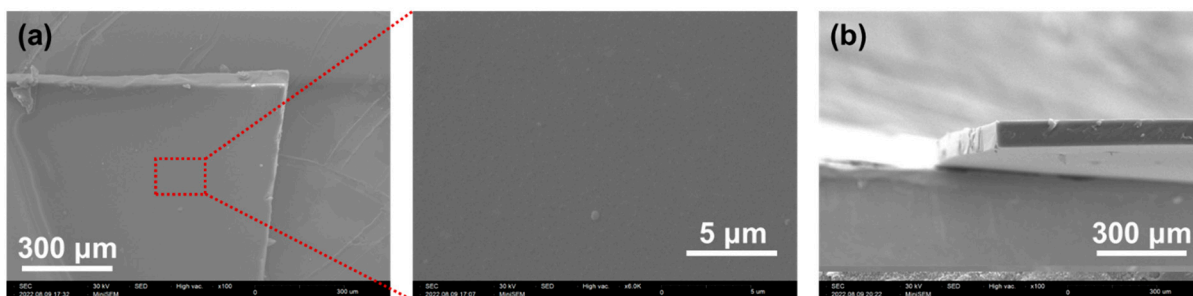
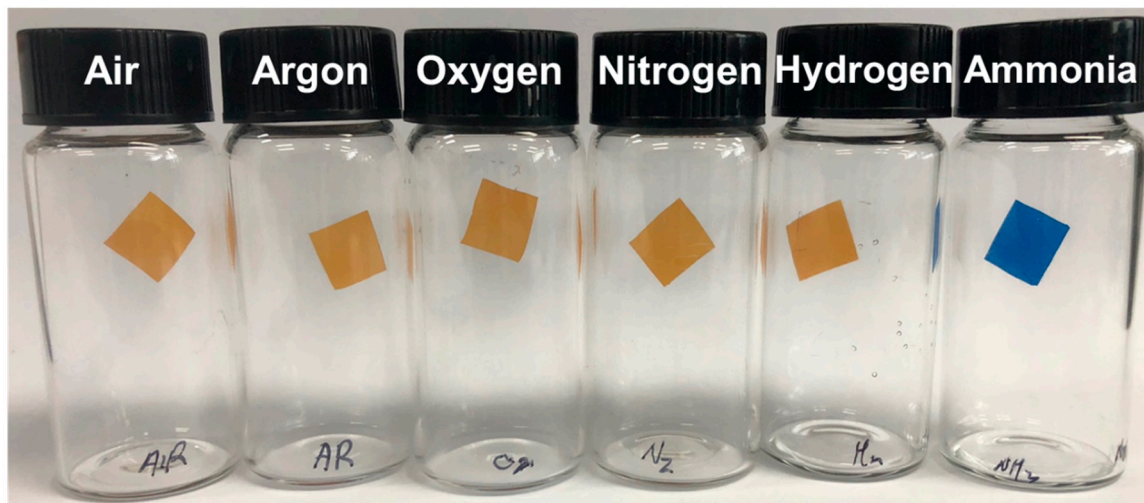


Figure S1. Scanning electron microscope (SEM) images of the colorimetric film sensor. (a) Surface and (b) cross-sectional images of the sensor.

(a)



(b)

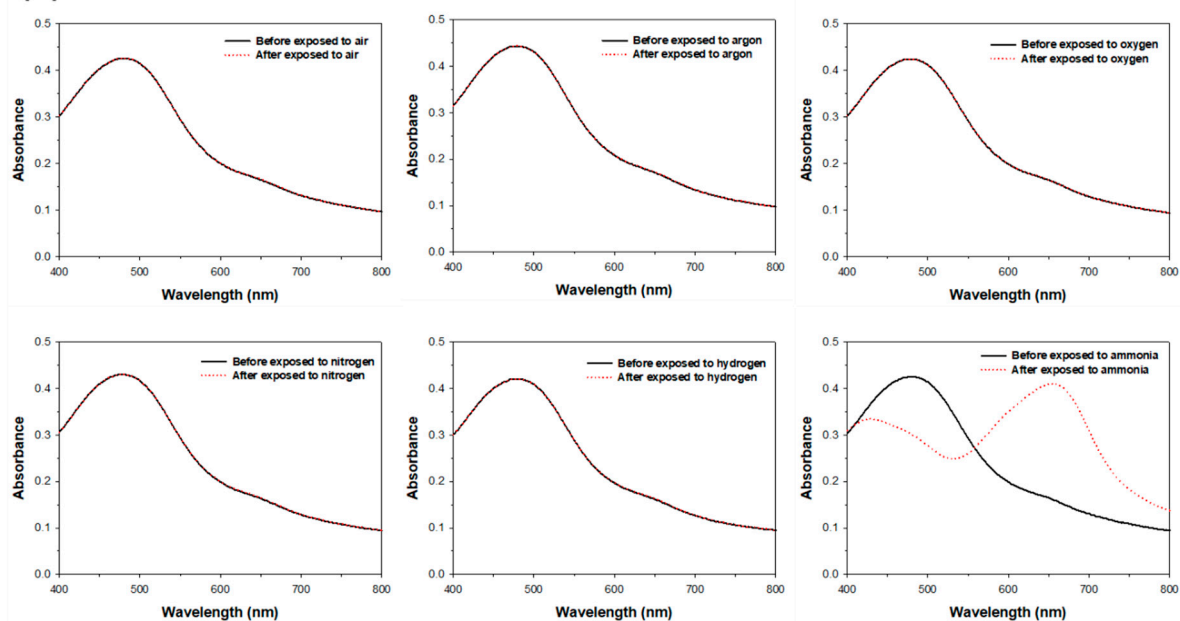


Figure S2. (a) Photographs and (b) absorbance spectra of film sensors upon exposure to gases, specifically air, argon (Ar), oxygen (O₂), nitrogen (N₂), hydrogen (H₂), and ammonia (NH₃).

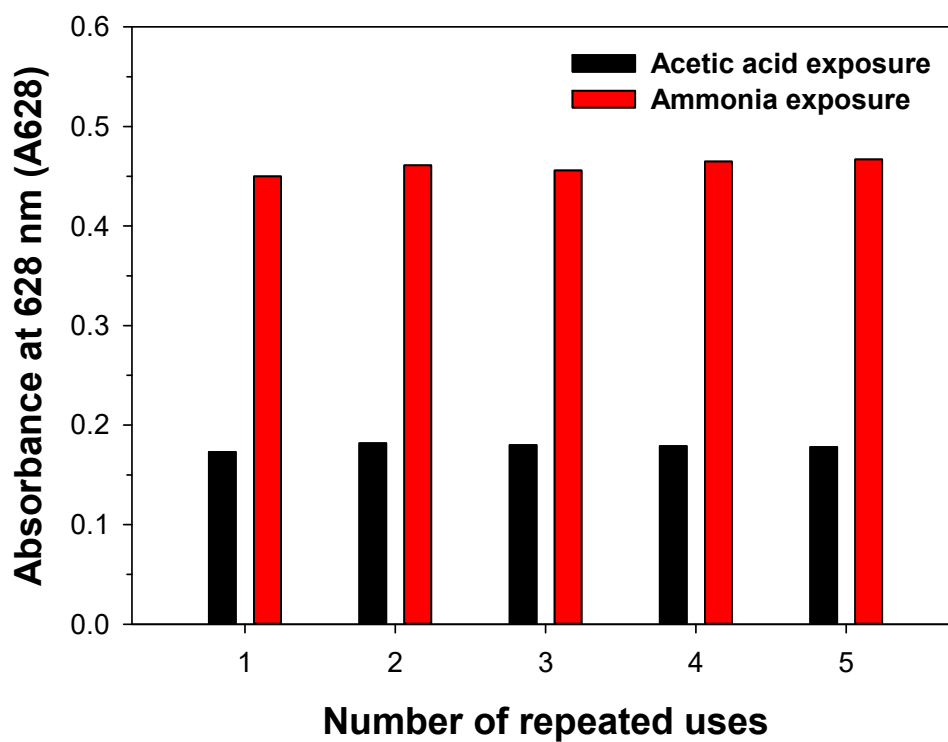


Figure S3. Reusability of the colorimetric film sensor. Changes of absorbance at 628 nm (A628) of the sensor reused five times are presented.

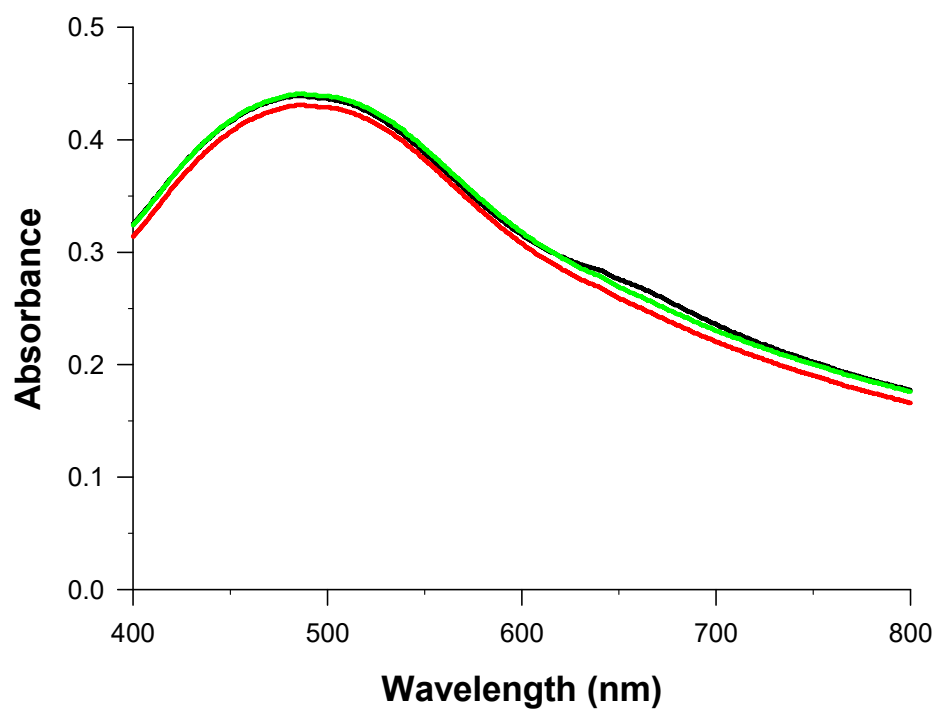


Figure S4. Stability of a colorimetric film sensor. Absorbance spectra of the film sensor before (i.e., original film sensor, black line) and after stored at ambient condition for 1 (red line) and 2 years (green line), respectively.