

Figure S1. XPS transition of N1s from SWCNTs exposed to 1 ppm ammonia at 25 °C (a) and 140 °C (b), followed by N₂ purging.

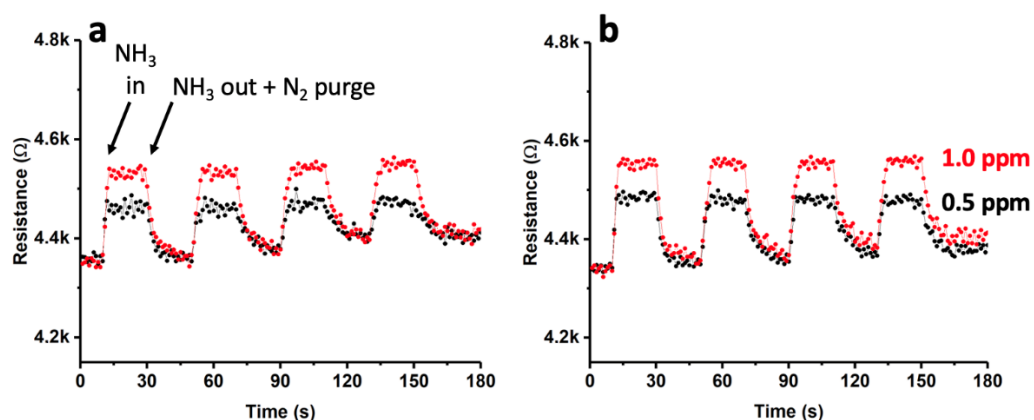


Figure S2. Dynamic response curve for SWCNTs towards NH₃ (0.5 ppm and 1 ppm), at 25 °C (a) and 140 °C (b).

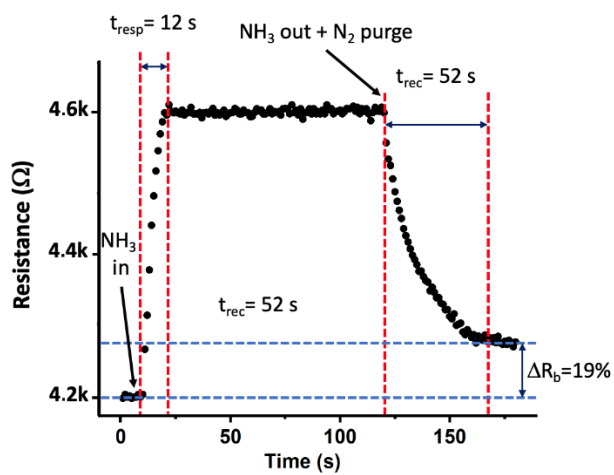


Figure S3. The response time and recovery time of the sensor based on Au-SWCNTs to an exposure of 1 ppm ammonia concentration at 25 °C.