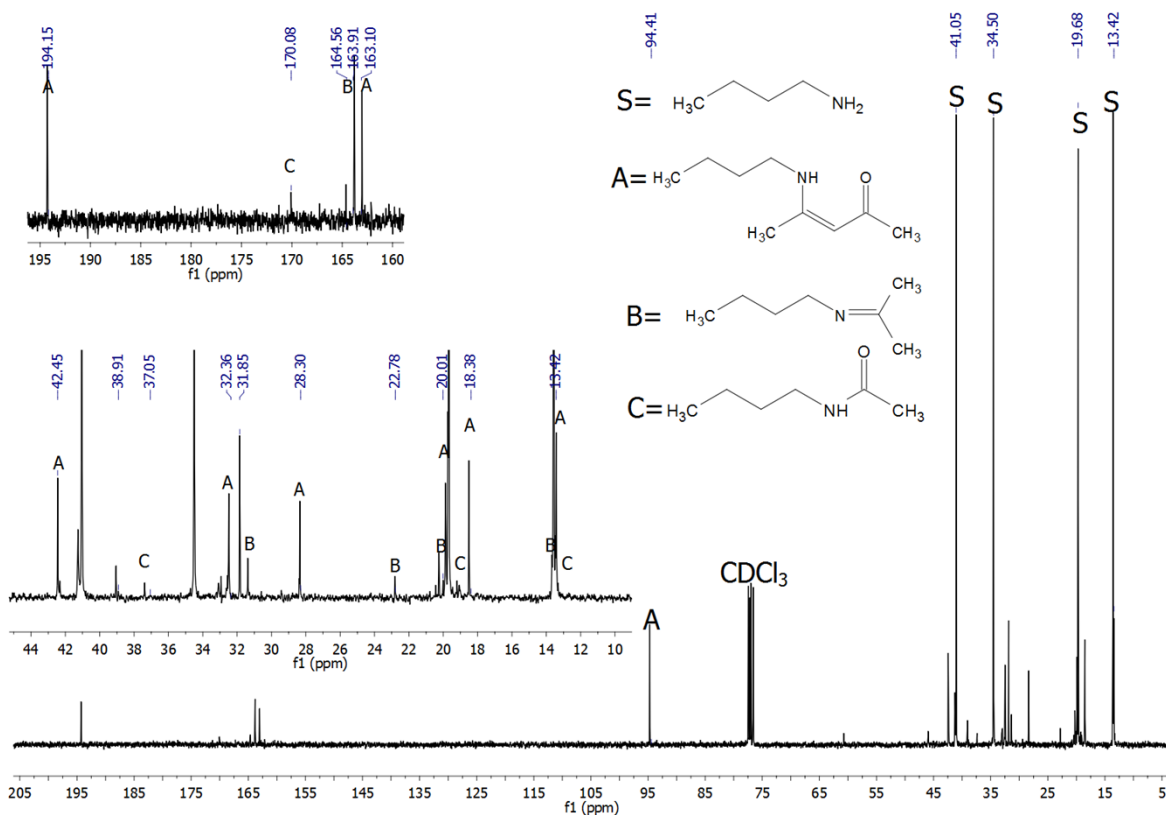


Supporting Information:

Figure S1. ^{13}C NMR spectrum of the filtered reaction solution measured in CDCl_3 of the In_2O_3 oxide nanoparticles.



NMR characterization or Assignment:

S: Butylamine

A: 4-(butylamino)pent-3-en-2-one

B: N-butylpropan-2-imine

C: N-butylacetamide

Figure S2. Kubelka-Munk elaboration of as synthesized In_2O_3 DRS spectrum. The dashed line represents the x -axis intercept of the line tangent to the inflection point, corresponding to its apparent optical E_g , calculated with the Tauc procedure (2.73 eV).

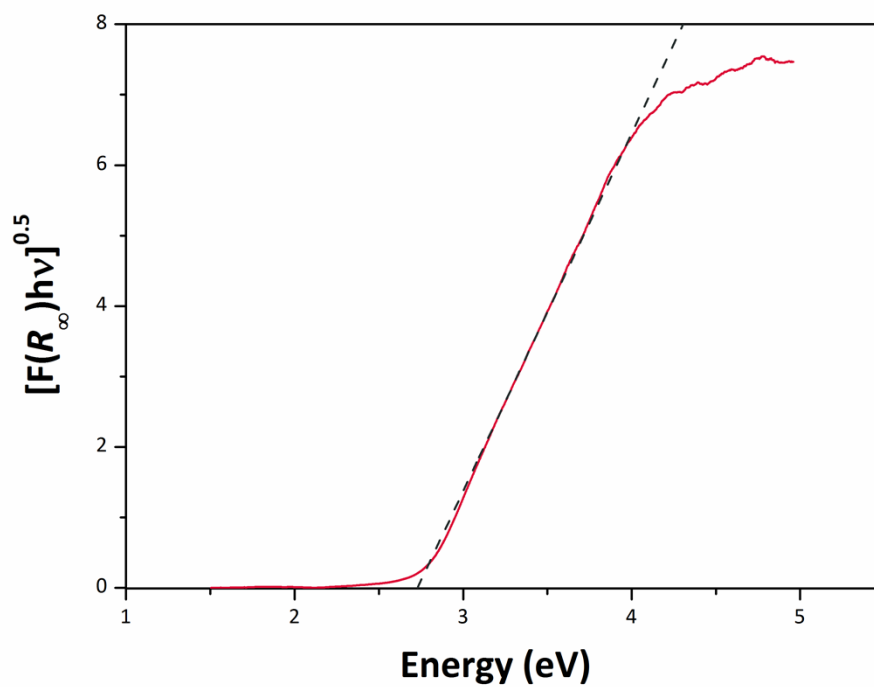


Figure S3 Dynamic response obtained with FIA system for repetitive pulses of 1.5 ppm sevoflurane at operation temperature of 250 °C.

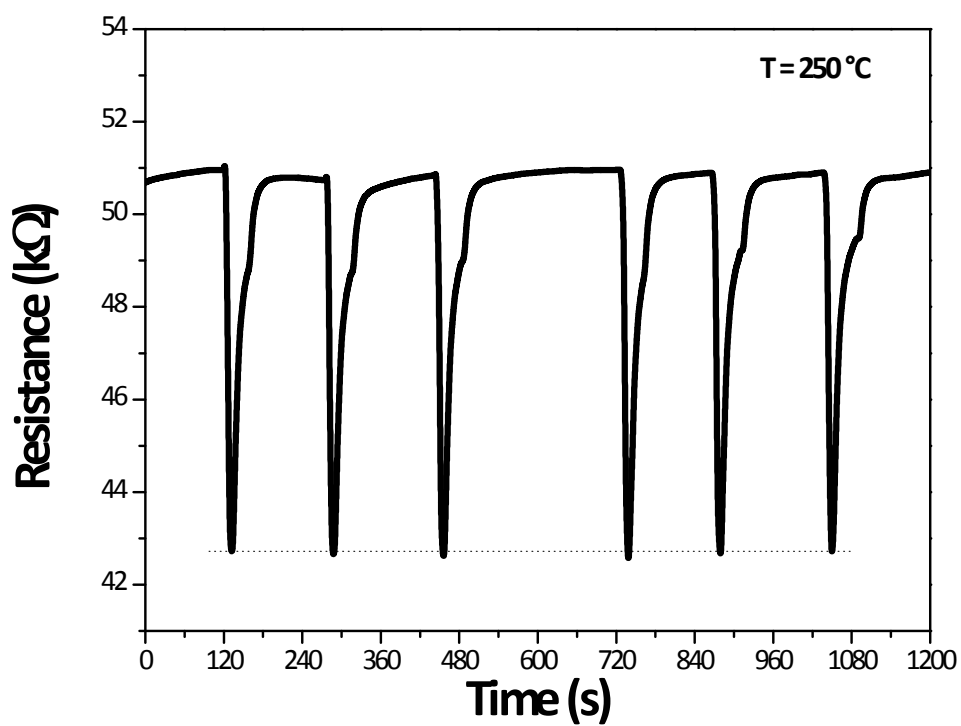


Figure S4 TGA analysis of the as-prepared In_2O_3 sample.

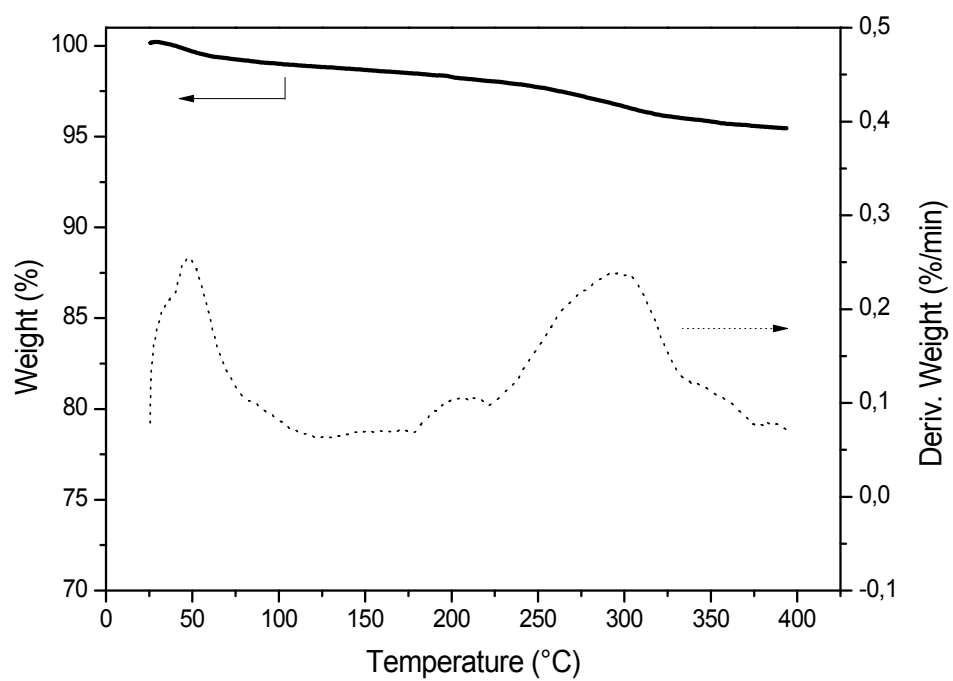


Figure S5 Photographs of: a) the sensor before and after sensing layer deposition; b) the sensor mounted on the holder.

