

Supplementary Data

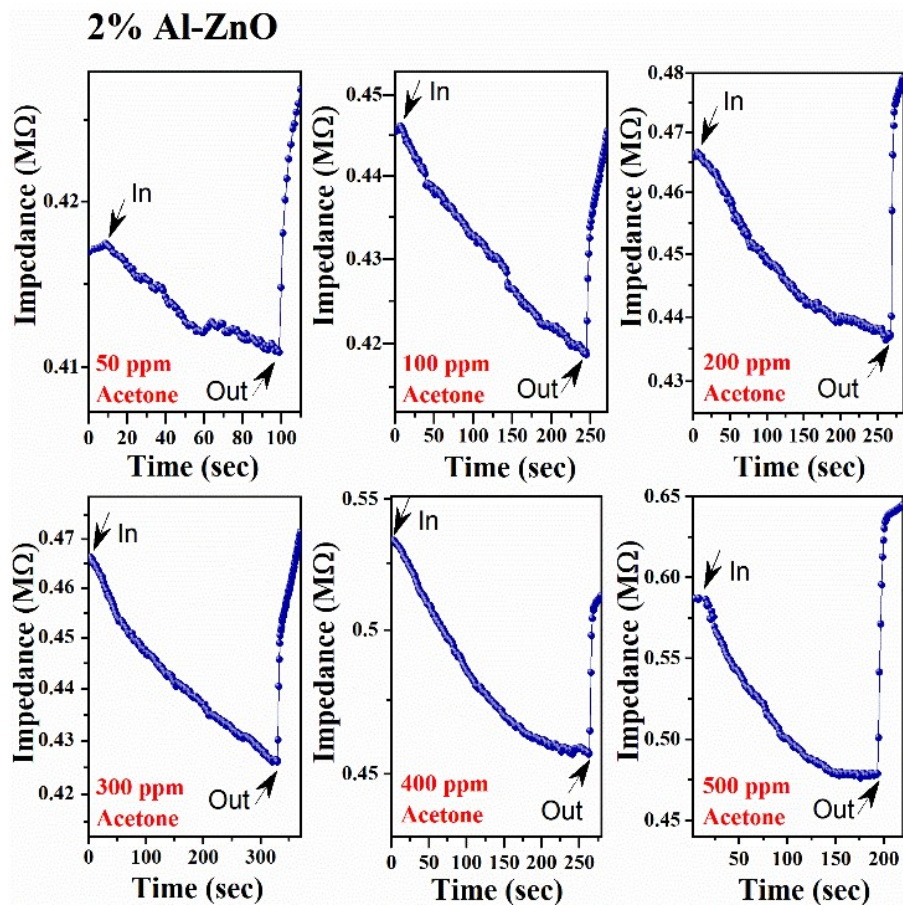


Fig. S1 Change in the impedance of parent 2% Al-ZnO by exposing the pellet sample in different acetone concentration. 'In' indicate the time of insertion of gas and 'out' shows the time of taking out gas from the chamber.

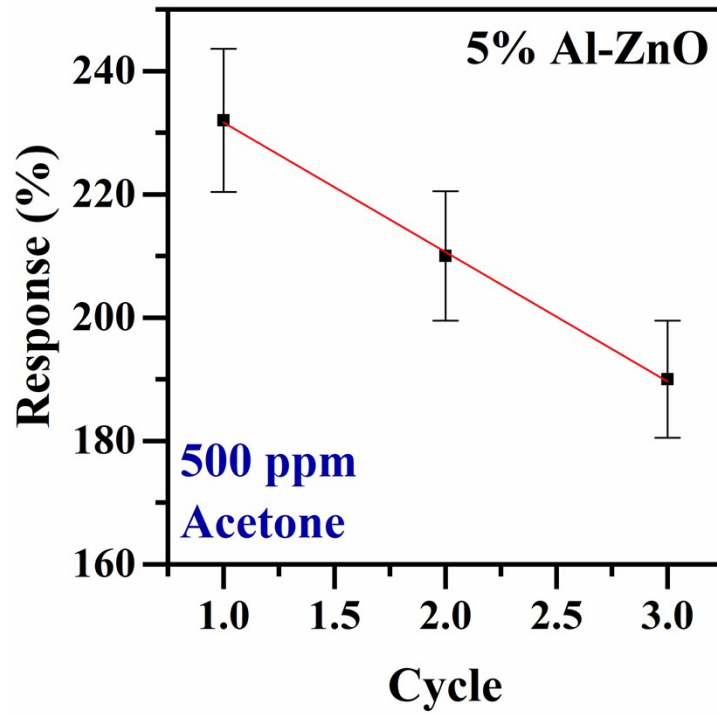


Fig. S2 Error bar representation of the acetone sensing response 5% Al-ZnO toward 500 ppm over three consecutive cycles ($\pm 5\%$)

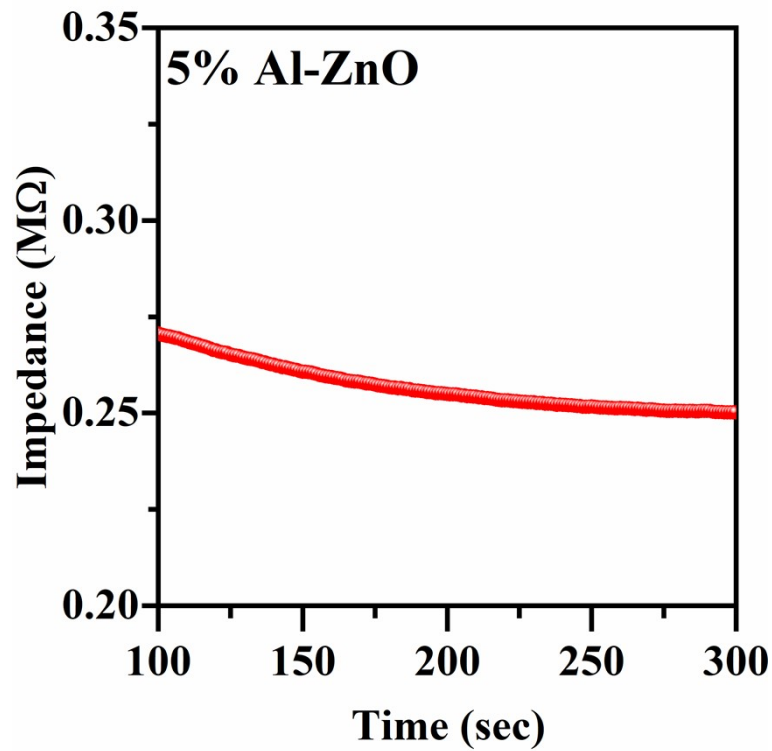


Fig. S3 Baseline stability plot of 5% Al-ZnO sample at ambient condition.

