

FS1. Schematic of sensor fabrication and gas testing.

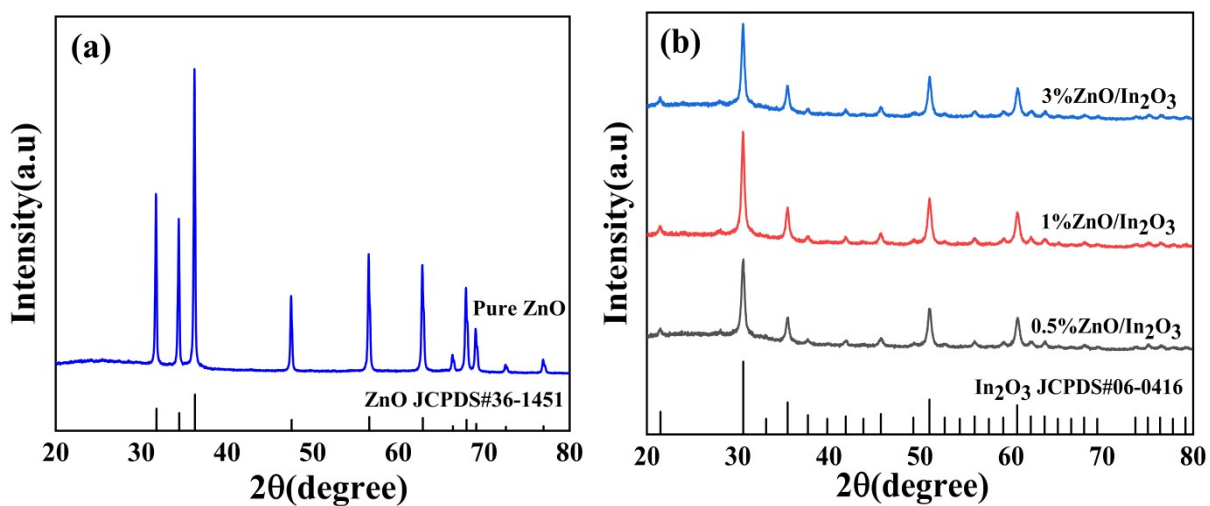


Fig.S2. X-ray diffraction pattern of Pure ZnO, x %ZnO/In₂O₃ (x=0.5, 1, 3) samples.

Table S1 The Au and Zn additional concentrations in In₂O₃ host

sample	1mol %Au/1 mol% ZnO /In ₂ O ₃	2 mol%Au/1 mol% ZnO /In ₂ O ₃	3 mol %Au/1 mol% ZnO /In ₂ O ₃
Au Concentration	0.65	1.46	2.45
Zn Concentration	0.73	0.76	0.72