Electronic Supporting Information for

# In-MIL-68 derived $In_2O_3/Fe_2O_3$ shuttle-like structures with n-n heterojunctions to improve ethanol sensing performance

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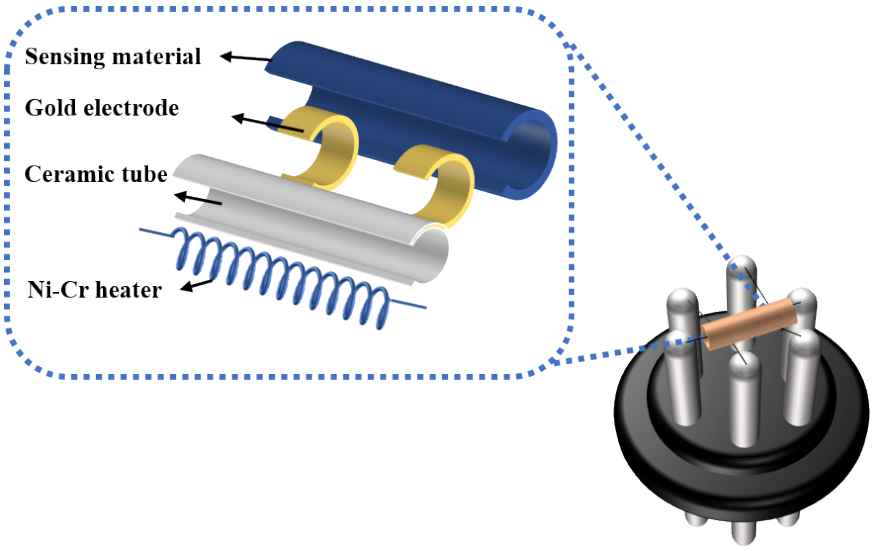


**Fig. S1.** Structure diagram of the gas sensor.

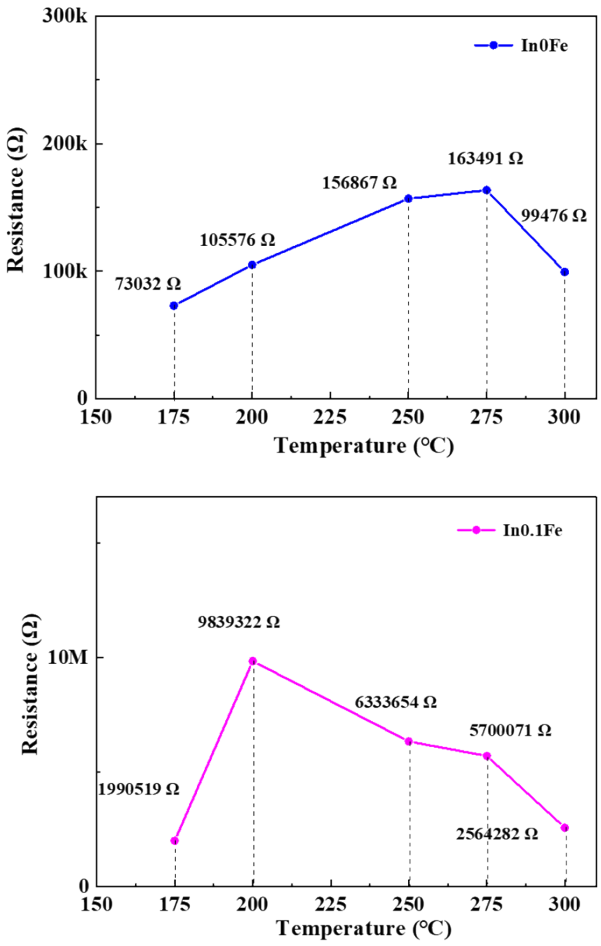


**Fig. S2.** Change of ground state resistance at different temperatures.

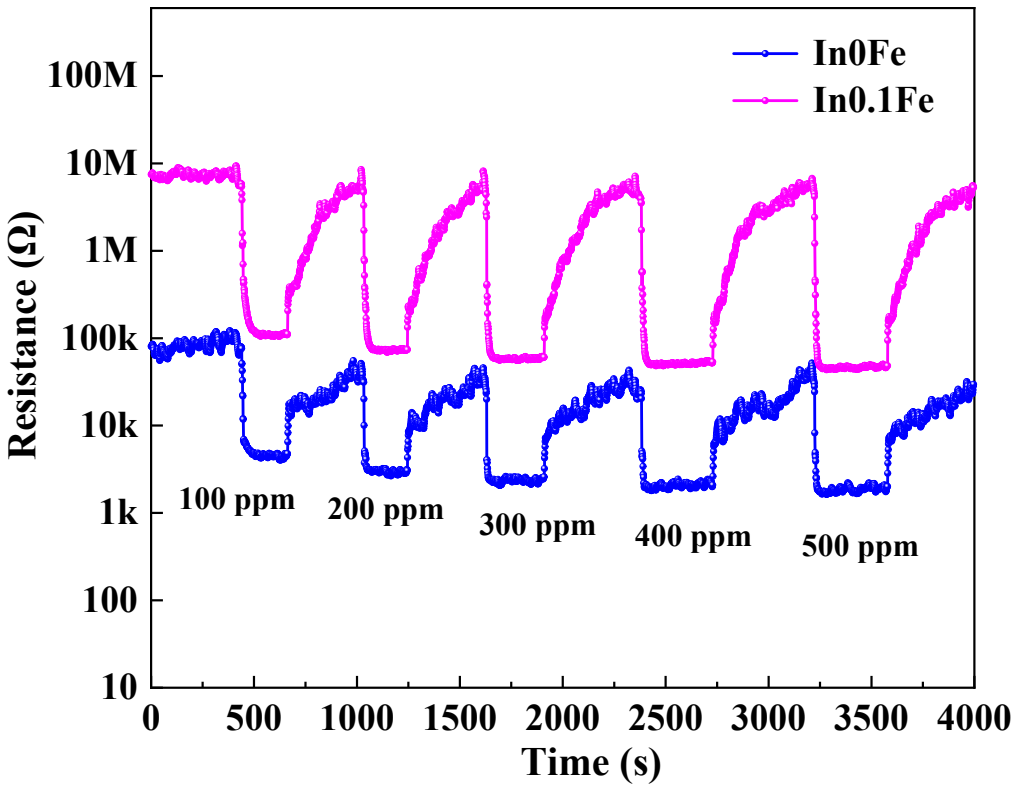


**Fig. S3.** Transient resistance changes of In0Fe and In0.1Fe to 100-500 ppm ethanol.

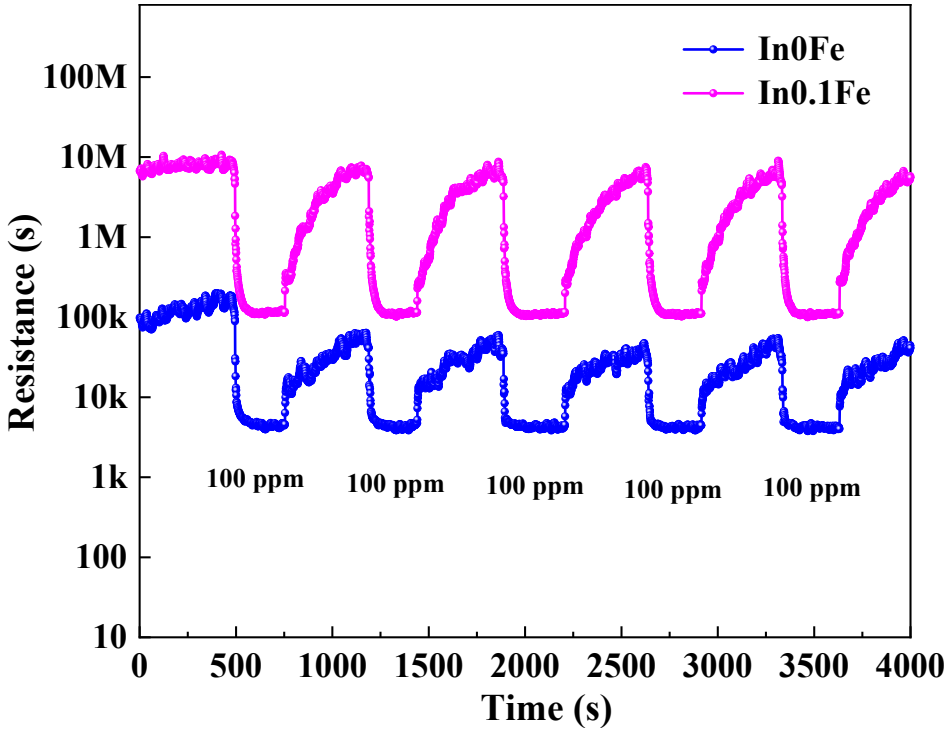


**Fig. S4.** Transient resistance changes to 100 ppm ethanol of In0Fe and In0.1Fe.

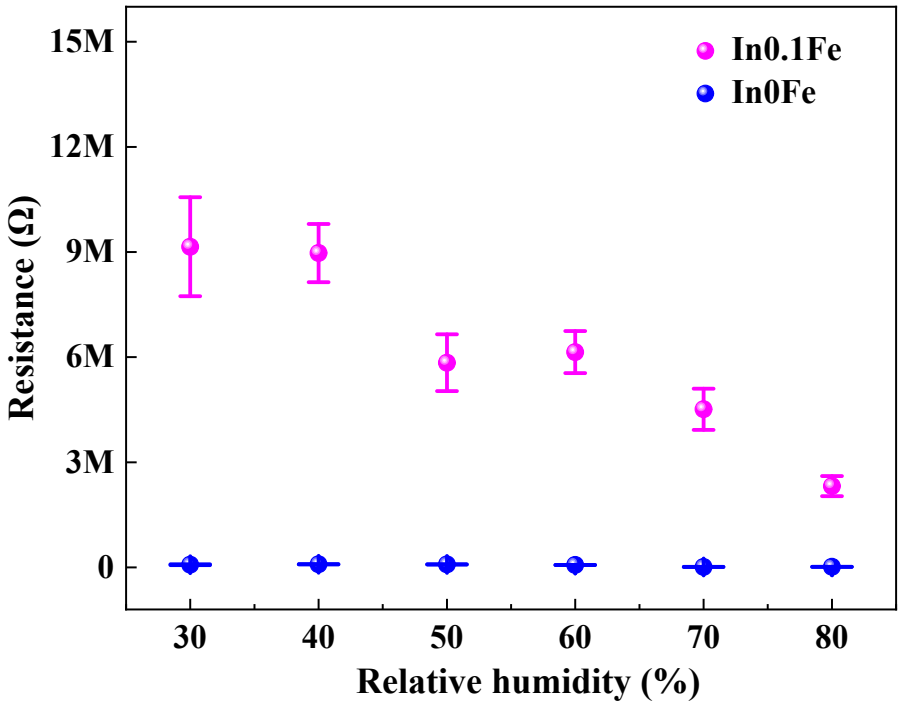


**Fig. S5.** Plot of mean air resistance values of In0Fe and In0.1Fe with humidity.

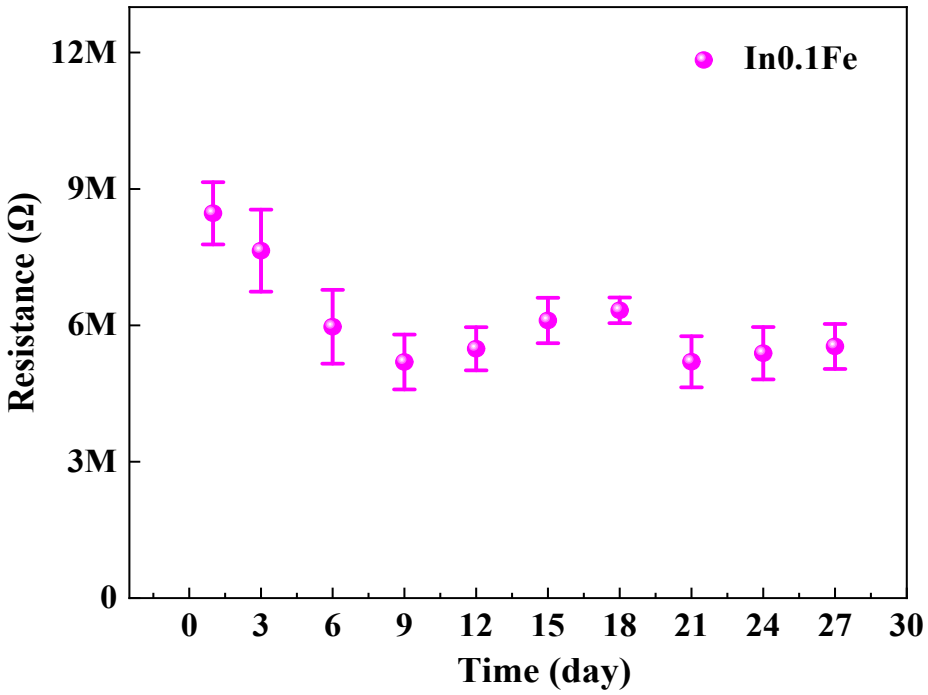


**Fig. S6.** Average air resistance of In0.1Fe over a 30-day period.