

Ag-Modified Porous Perovskite-Type LaFeO_3 for Efficient Ethanol Detection

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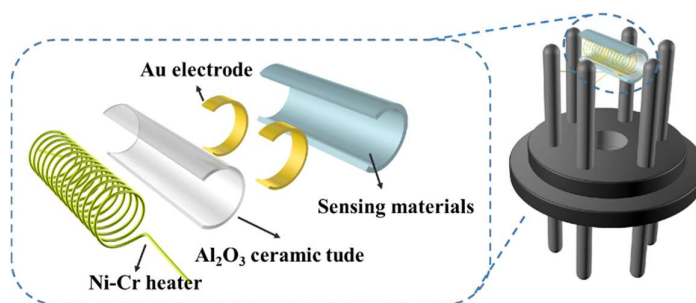


Figure S1. The schematic structure of the gas sensor.

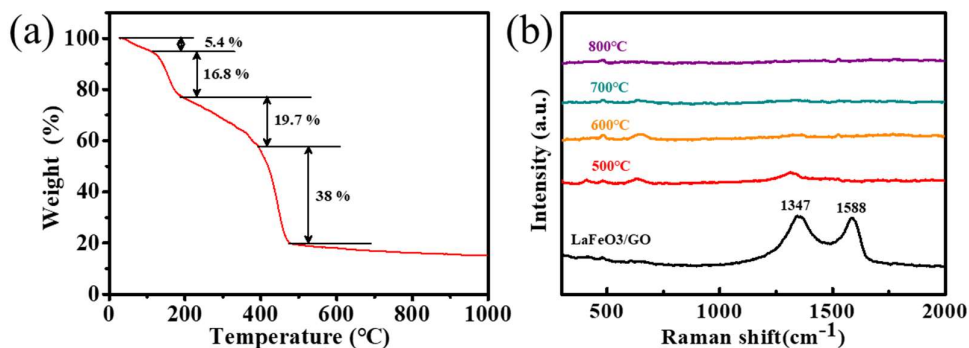


Figure S2. (a) TG curves of LaFeO_3/GO , (b) Raman spectra of the LaFeO_3 samples with different calcination temperatures.

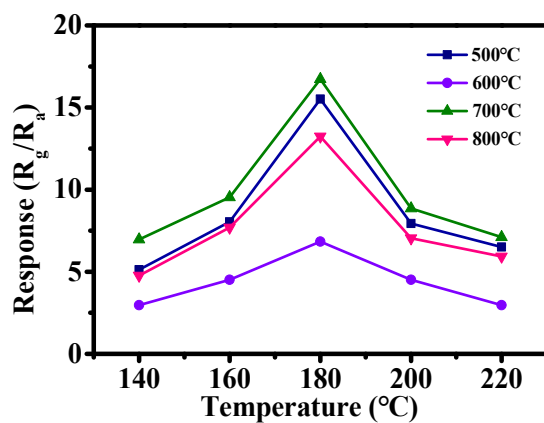


Figure S3. Response of LaFeO₃ samples toward 50 ppm of EtOH at operation temperature ranging from 140 to 220 °C.

Table S1. Fitting results of O 1s XPS spectra of Ag-LaFeO₃-0 and Ag-LaFeO₃-5.

Samples		O _{lat}	O _{def}	O _{abs}
Ag-LaFeO ₃ -0	Binding energy (eV)	528.7	531.2	532.5
	Relative percentage (%)	46.71	46.55	6.74
Ag-LaFeO ₃ -5	Binding energy (eV)	528.6	531.2	532.4
	Relative percentage (%)	46.25	44.28	9.47