Electronic Supporting Information to:

Electrospun Ce-Ni-O Composite Nanofibers for Highly Selective Propane Detection at High Temperature Based on Its Rapid Reaction Kinetics

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SUPPLEMENTARYRESULTS

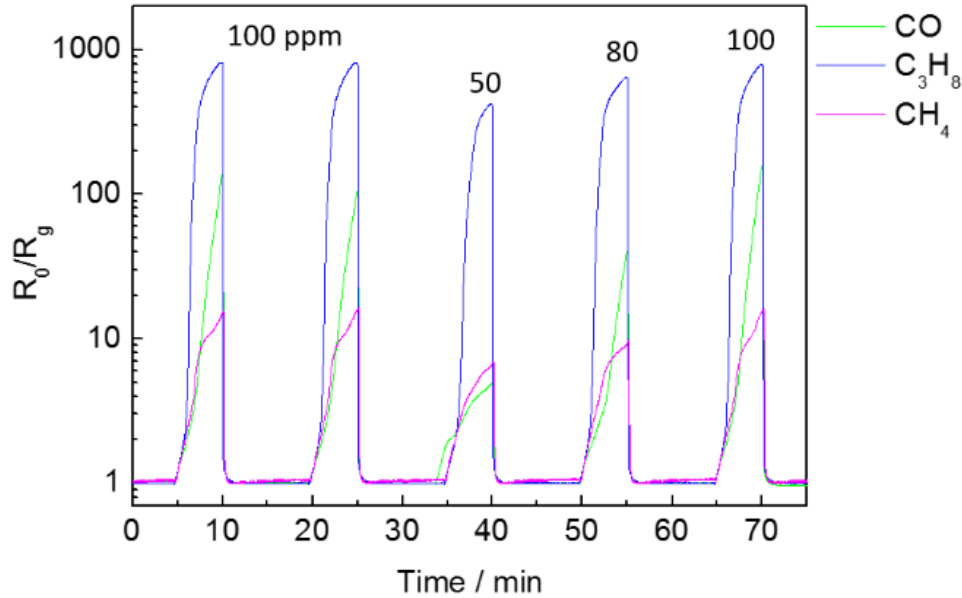**Sensing performance of CeO$_2$ NFs and NiO NFs-based sensor as control experiments**

Figure S1. The semi-log plot of real-time sensor responses of CeO$_2$ NFs based sensors upon periodic exposure to different concentrations of CO, CH$_4$ and C$_3$H$_8$ balanced by N$_2$ at 800 °C with an applied DC bias of 1 V (recovering gas is 1% O$_2$/N$_2$).

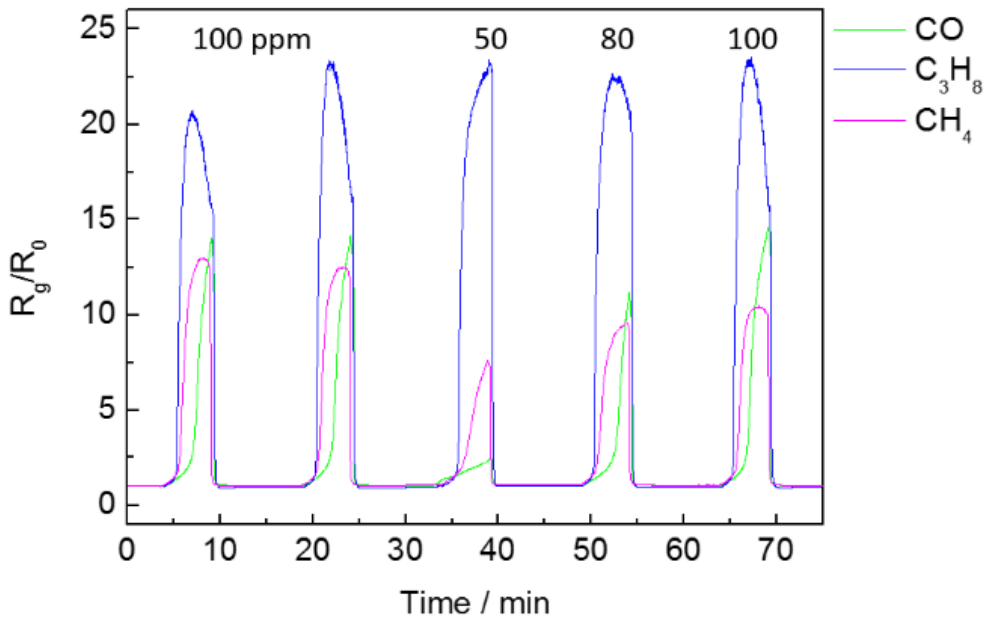
Figure S2. The semi-log plot of real-time sensor responses of NiO NFs based sensors upon periodic exposure to different concentrations of CO, CH$_4$ and C$_3$H$_8$ balanced by N$_2$ at 800 °C with an applied DC bias of 1 V (recovering gas is 1% O$_2$/N$_2$).