

Supporting Information:

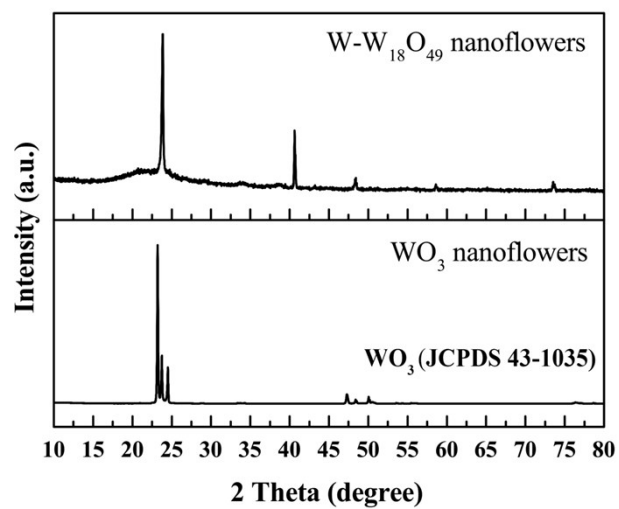


Fig. S1 XRD spectra for the sensors based on the nanoflowers before (above) and after (below) annealing in air respectively.

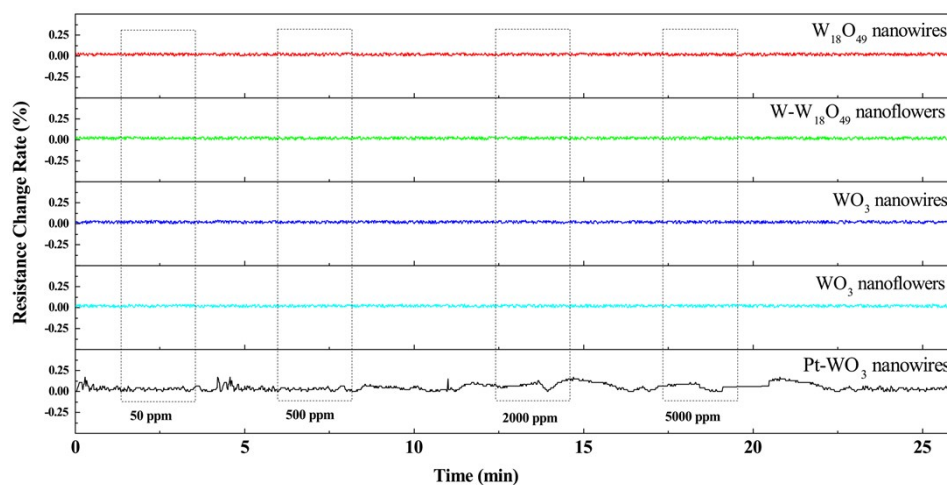


Fig. S2 Hydrogen sensing response curves for the sensors based on five different films (W₁₈O₄₉ nanowires, W-W₁₈O₄₉ nanoflowers, WO₃ nanowires, WO₃ nanoflowers, and Pt-WO₃ nanowires films) under the same test conditions at room temperature.

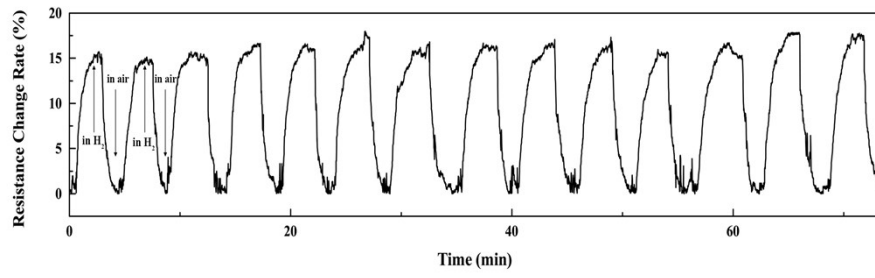


Fig. S3 Cycle test curve for the sensor based on Pt-WO₃ nanoflowers carried out in a gas atmospheres switch between 2000 ppm hydrogen and air after 50 cycles.