

Electronic Supplementary Information

Design of nanostructured $\text{WO}_3\cdot0.33\text{H}_2\text{O}$ via combination of ultrasonic spray nozzle and microwave-assisted hydrothermal for enhancing isopropanol gas sensing at room temperature

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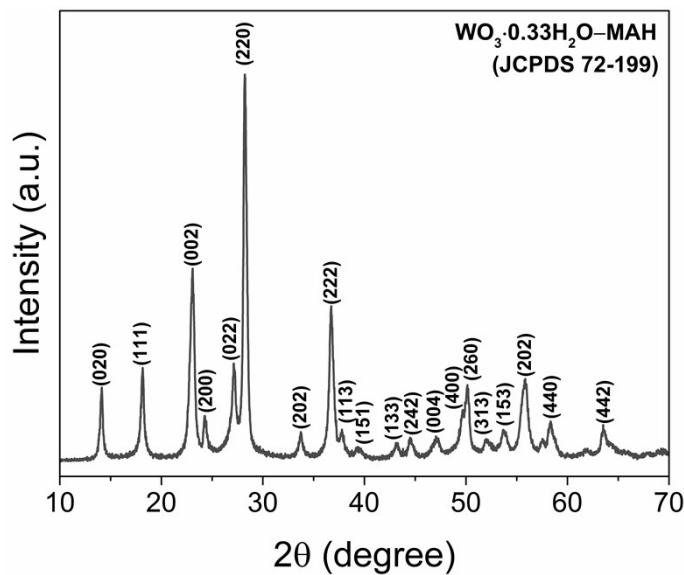


Fig. S1 XRD pattern of $\text{WO}_3\cdot0.33\text{H}_2\text{O}$ -MAH.

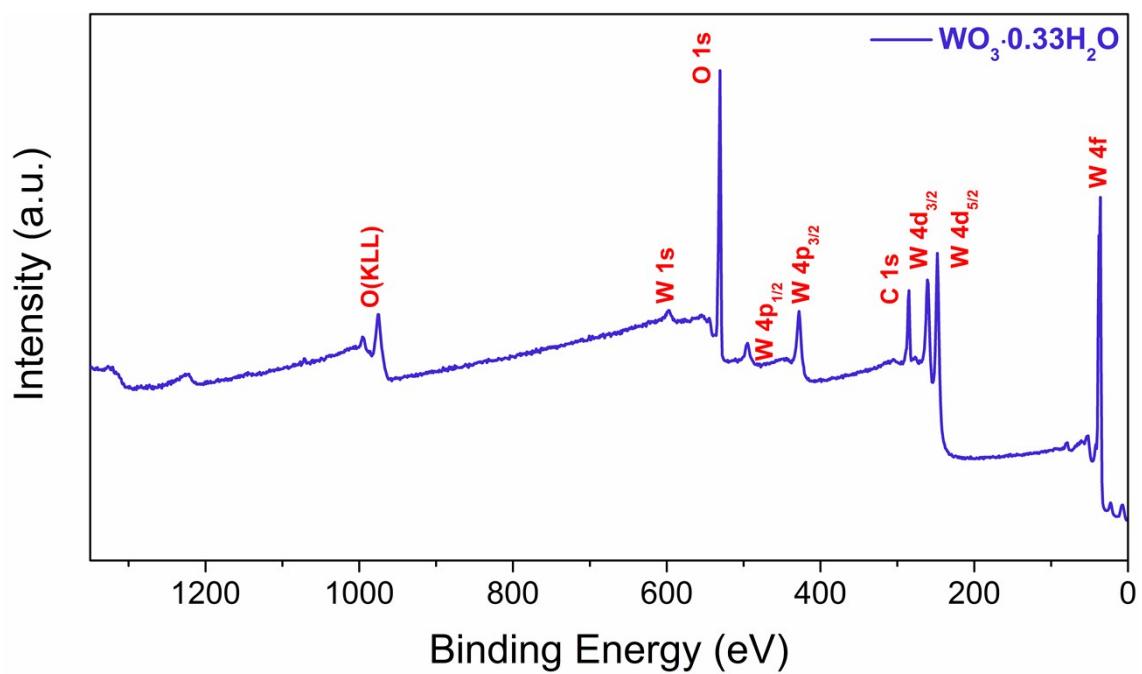


Fig. S2 Survey-scan XPS spectrum of $\text{WO}_3 \cdot 0.33\text{H}_2\text{O}$ -USN-MAH.

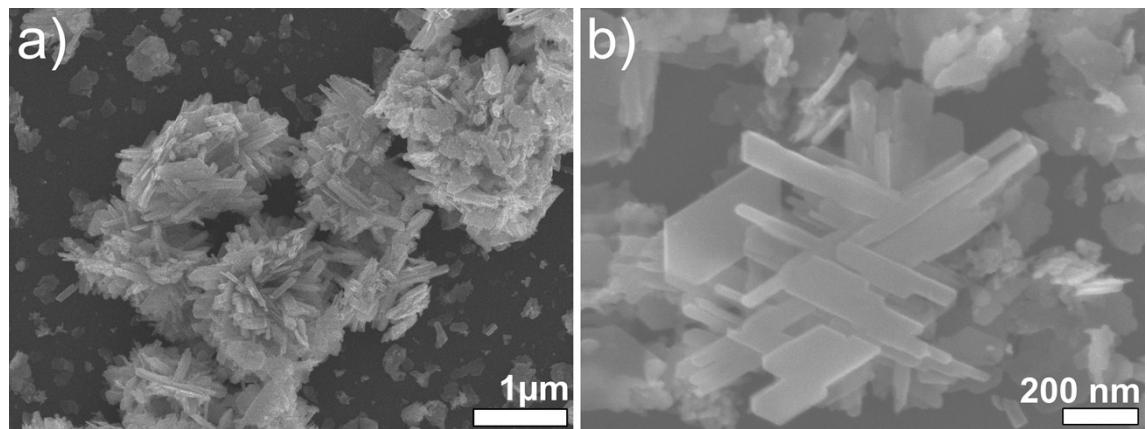


Fig. S3 FESEM images of $\text{WO}_3 \cdot 0.33\text{H}_2\text{O}$ -USN-MAH sample. (a) Low magnification image, and (b) 2D branches plates structures.

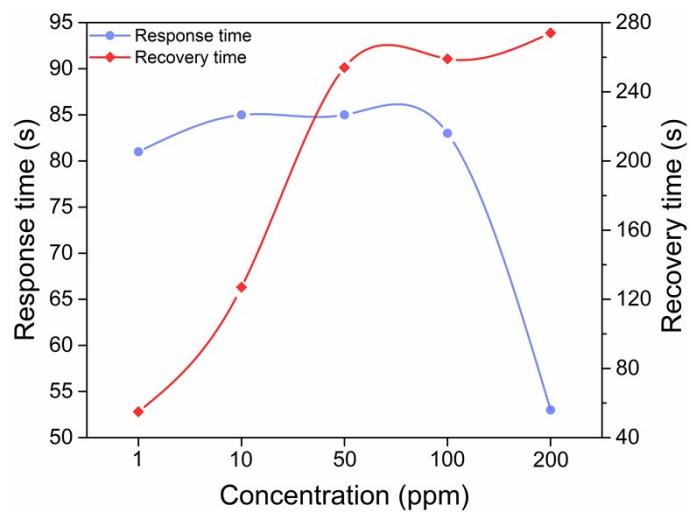


Fig. S4 Response and recovery time of $\text{WO}_3 \cdot 0.33\text{H}_2\text{O-USN-MAH}$ sample in the range of isopropanol concentration of 1–200 ppm.