

Supporting Information

Enhanced Acetone Sensing Property of a Sacrificial Template Based on Cubic-Like MOF-5 Doped by Ni Nanoparticles

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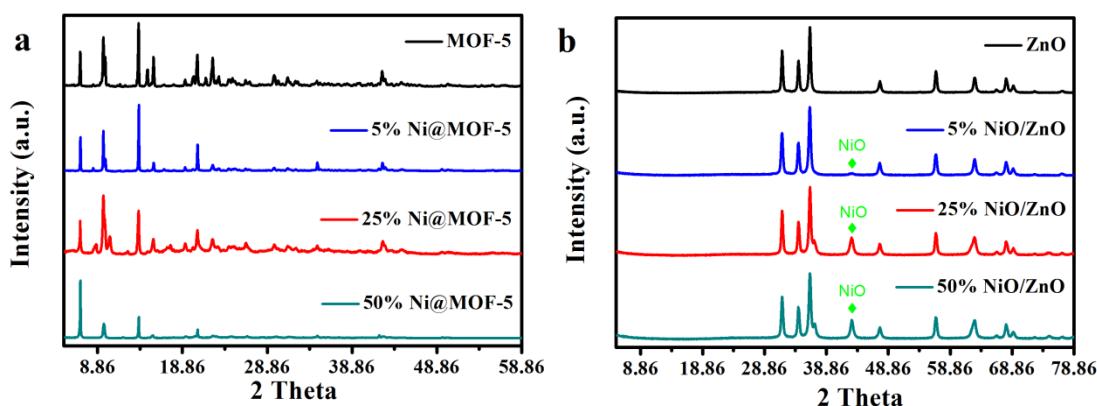


Figure 1S. The PXRD pattern of (a) MOF-5, 5% Ni@MOF-5, 25% Ni@MOF-5 and 50% Ni@MOF-5, (b) ZnO, 5% NiO/ZnO, 25% NiO/ZnO and 50% NiO/ZnO.

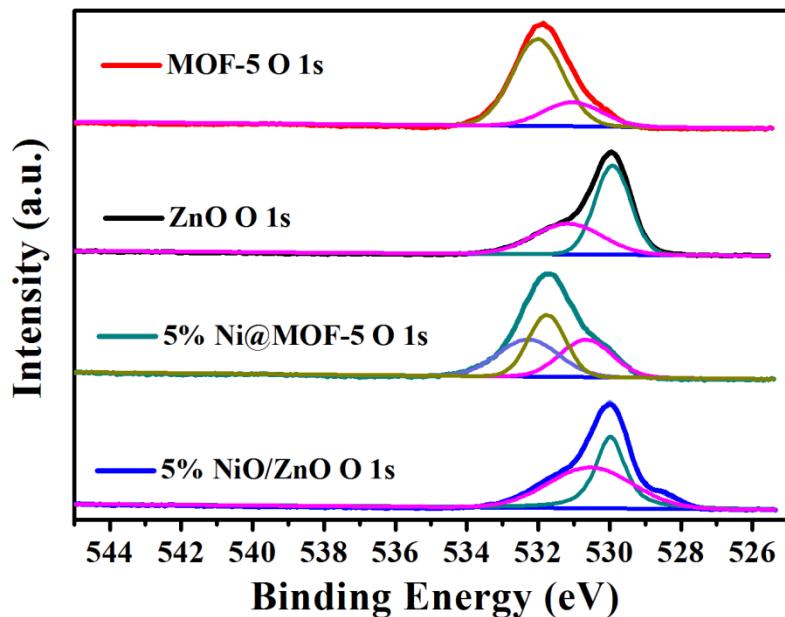


Figure 2S. O 1s spectrum of materials.

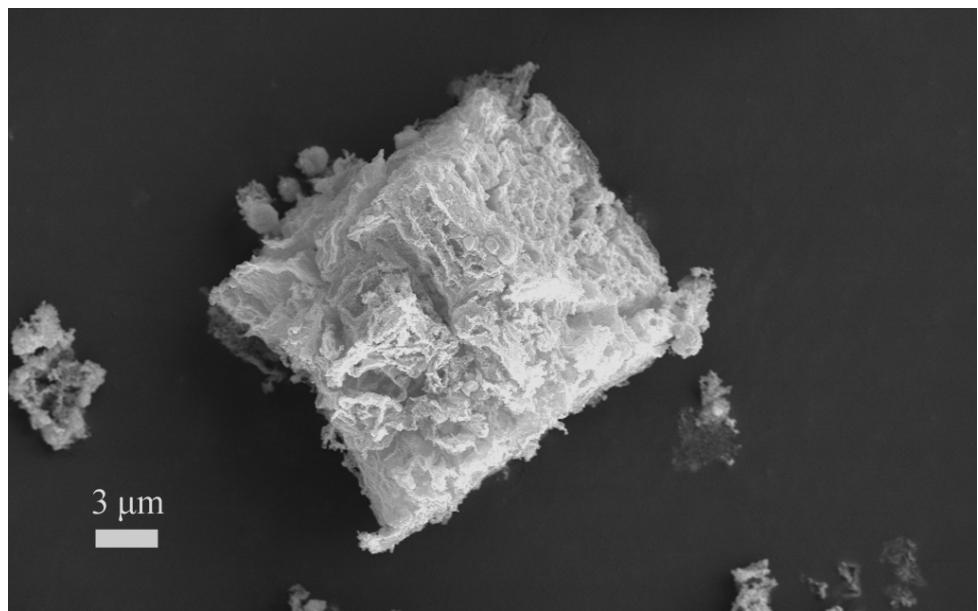


Figure 3S. SEM images of 25% NiO/ZnO.

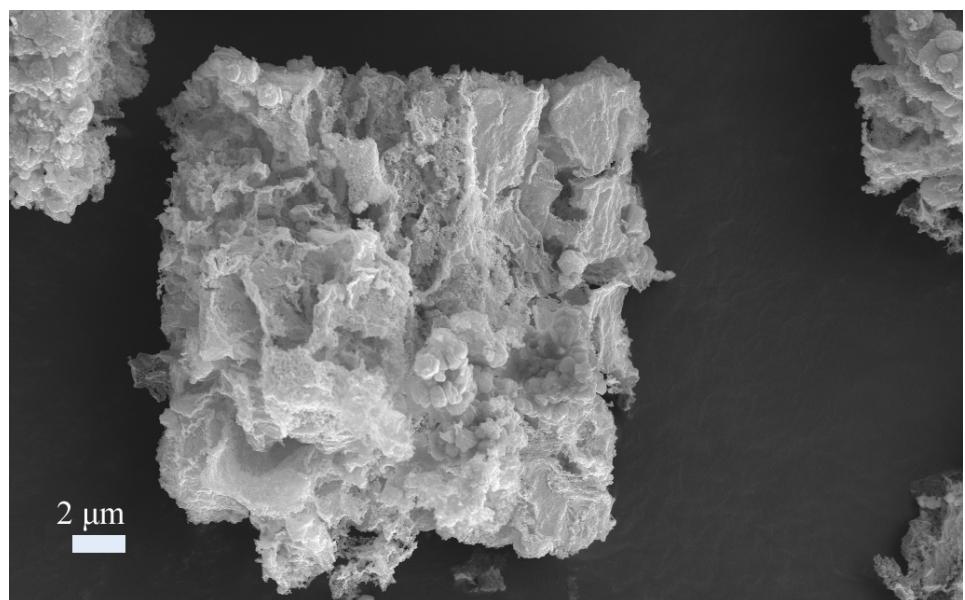


Figure 4S. SEM images of 50% NiO/ZnO.

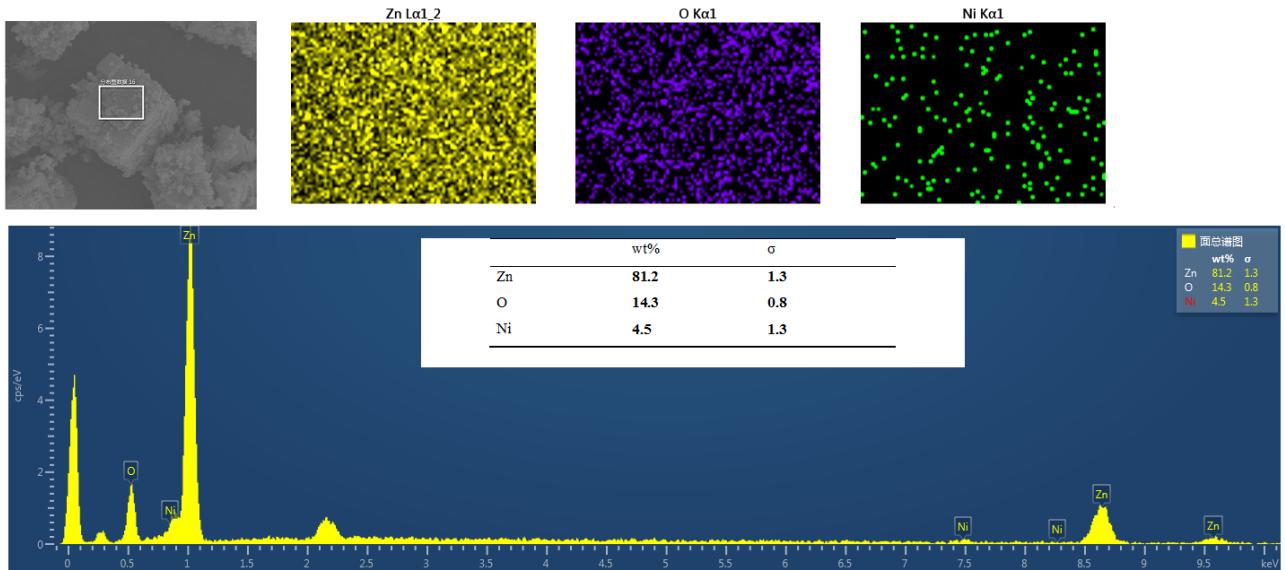


Figure 5S. EDS spectrum of 5% NiO/ZnO microstructure.

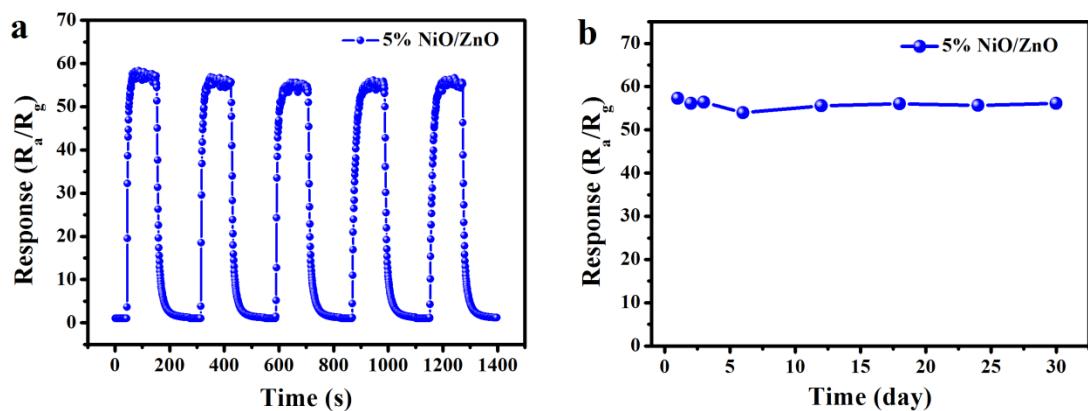


Figure 6S. (a) Repeatability measurement of the 5% NiO/ZnO to 200 ppm acetone at 340°C, (b) The long-term stability test of 5% NiO/ZnO to acetone (200 ppm).