

Supplementary Information

Edge sites enriched vanadium doped MoS₂/RGO composites as highly selective room temperature ammonia gas sensor with ppb level detection

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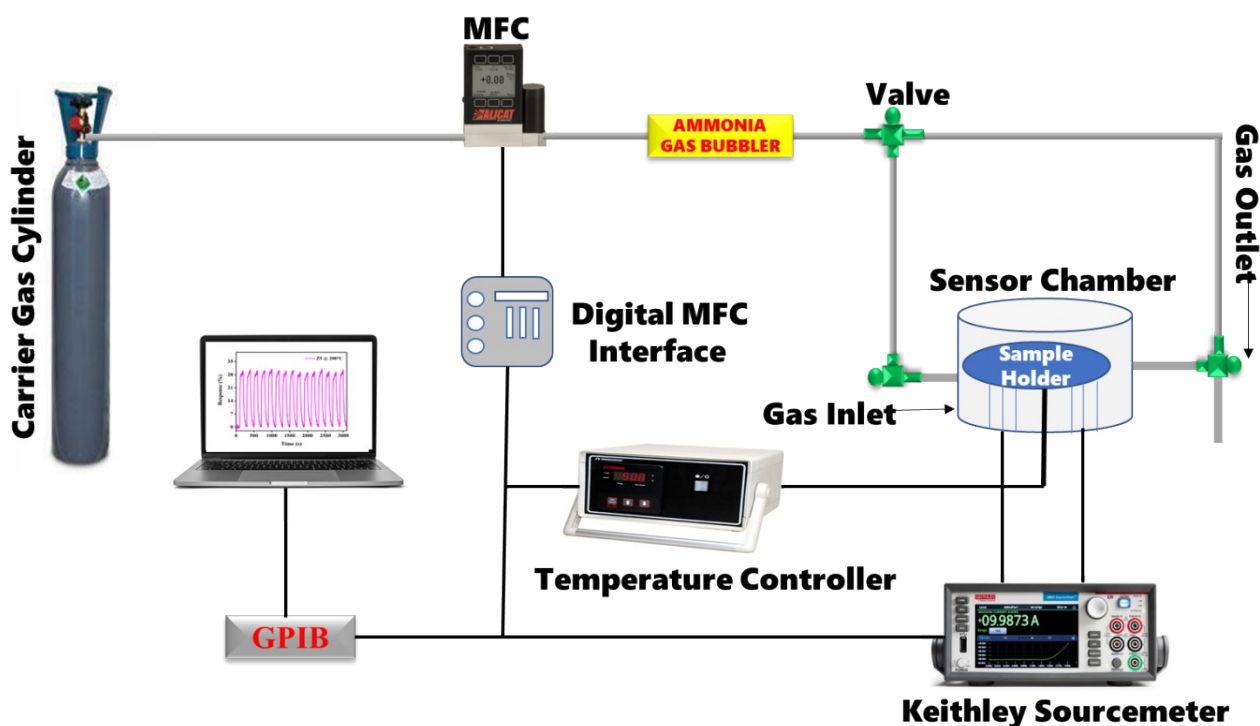


Figure S1. Schematic illustration of the gas sensing setup employed for ammonia gas sensing.

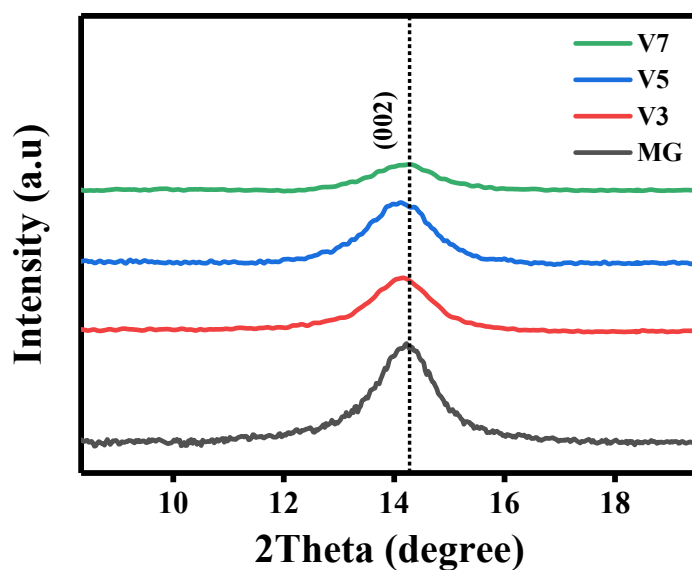


Figure S2. Magnified view of the (002) plane in the XRD pattern of MG, V3, V5 and V7 composites.

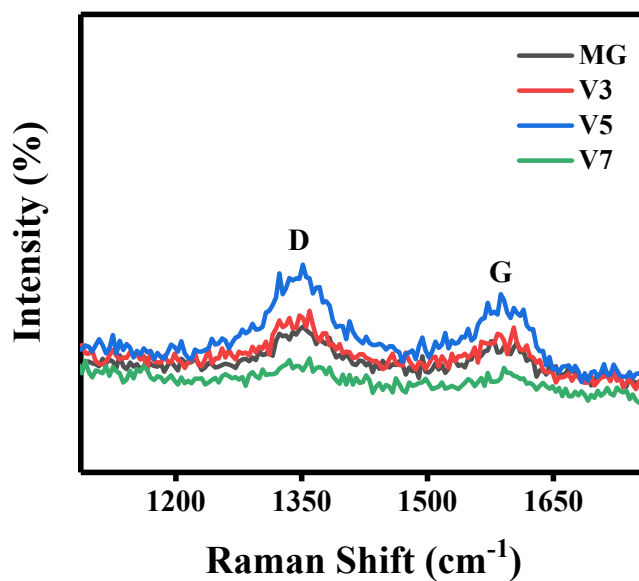


Figure S3. Enlarged view of the D and G bands in the Raman spectra of vanadium doped and undoped MoS₂/RGO composites.

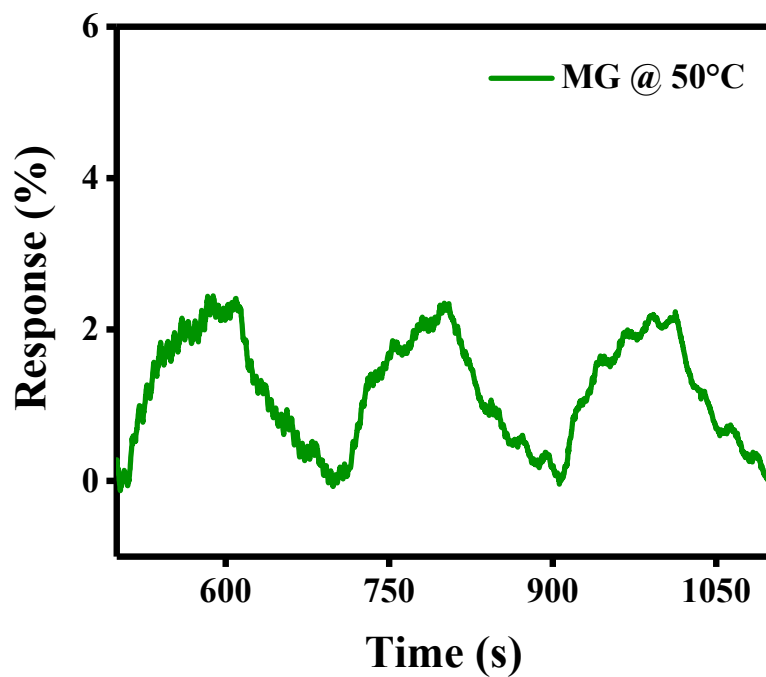


Figure S4. Response curve of pristine MG to 50 ppm of ammonia at 50°C

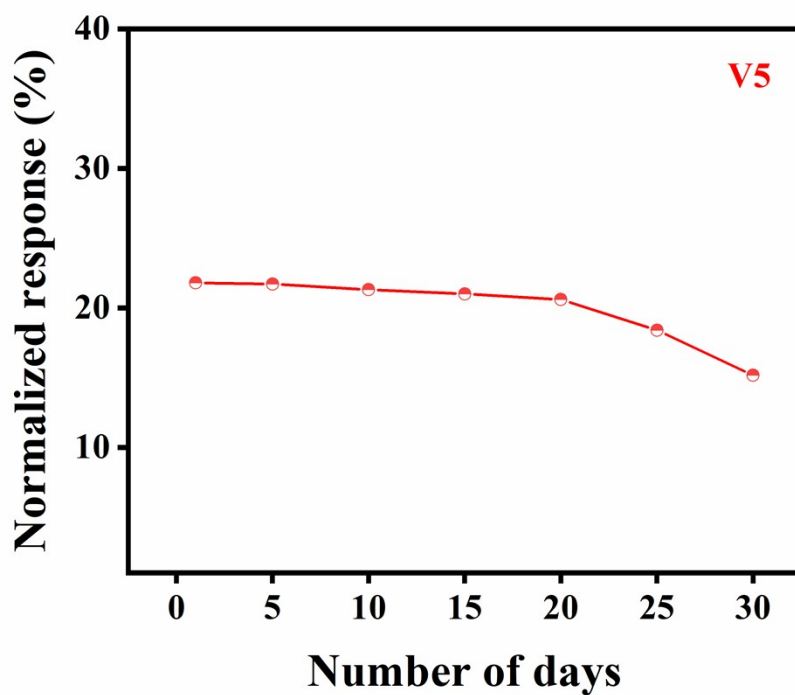


Figure S5. Long term stability of V5 towards 50 ppm of ammonia at room temperature