

Cu-MoS₂-ITO based hybrid structures for catalysis of hydrazine oxidation

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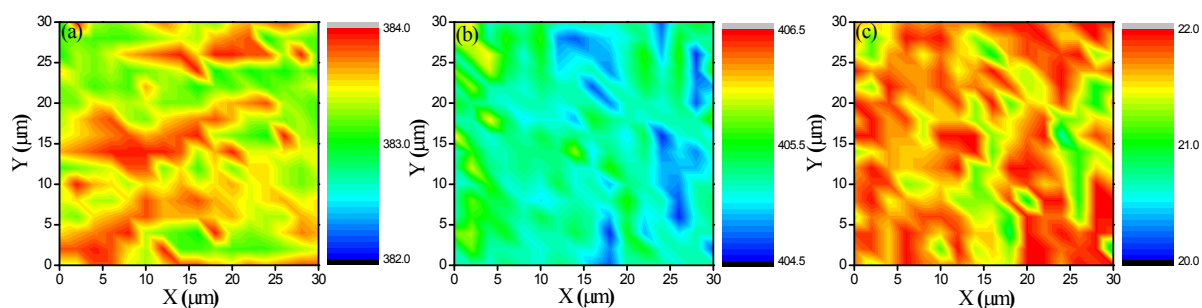


Figure S1. Raman mapping analysis were performed over an area of 30 μm × 30 μm of 2 nm thickness MoS₂ film (sputtered for 1 minute). **(a)** E_{2g}¹ mode mapping image is appeared at 382-384 cm⁻¹; **(b)** A_{1g} mode mapping image is appeared at 404.5 - 406.5 cm⁻¹; **(c)** The measured frequencies difference (Δk) are in the range of 20 – 22 cm⁻¹.

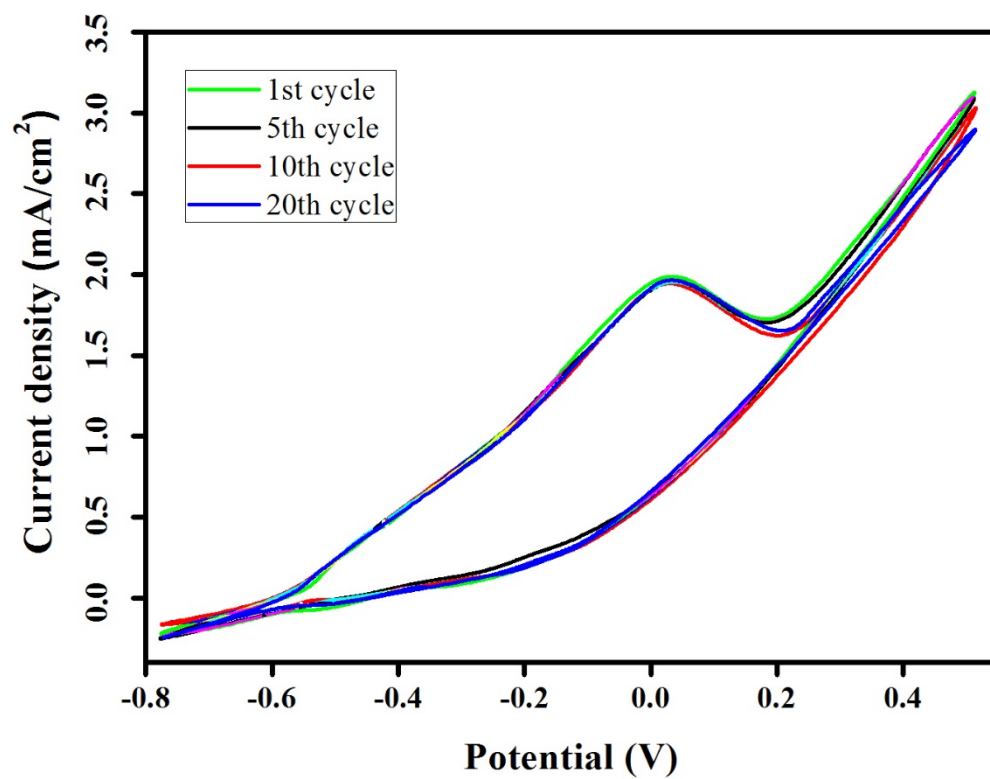


Figure S2. Cyclic voltammetry measurements of the Cu/MoS₂ (2 nm)/ITO hybrid.

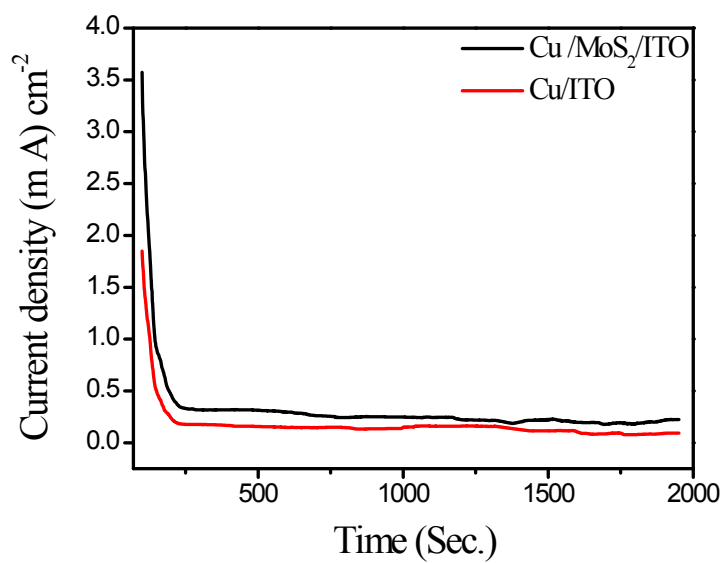


Figure S3. Chronoamperometric measurement in 75 mM NaOH with 0.1 mM hydrazine hydrate at -0.4 V (a) Cu/MoS₂/ITO hybrid (Black line); (b) Cu/ITO hybrid (Red line).