

Supporting information

Fabrication of ultra-high energy and power asymmetric supercapacitors based on hybrid 2D MoS₂/Graphene oxide composite electrodes: A binder free approach

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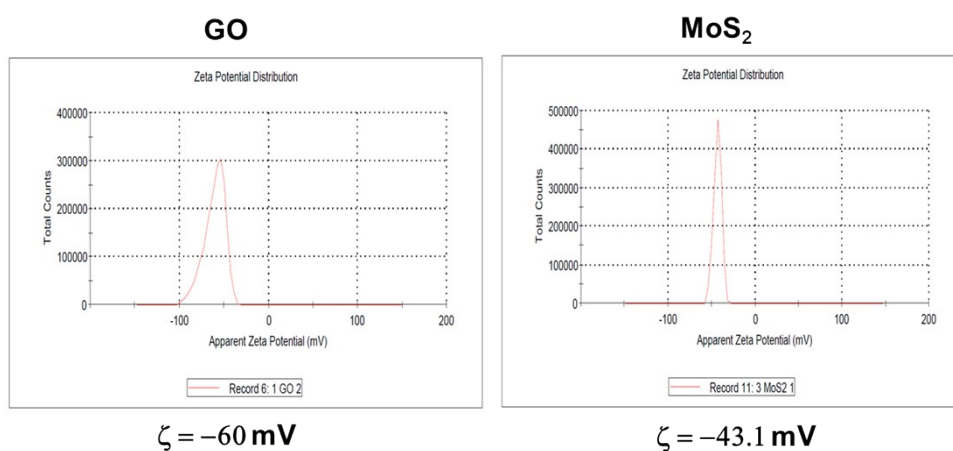


Figure S1 Zeta potential measurement of colloidal suspension of 2D MoS₂ and GNS nanosheets in ACN solution (1 mg ml⁻¹).

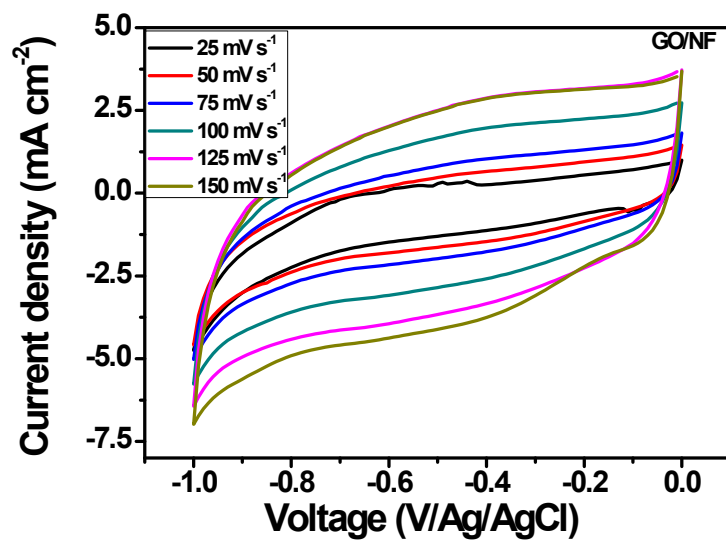


Figure S2 Scan rate dependent (25-150 mV s⁻¹) CV curves of GO coated Ni foam electrode within optimized potential window of 0.0 to -1.0 V in aqueous 1 M Na₂SO₄.

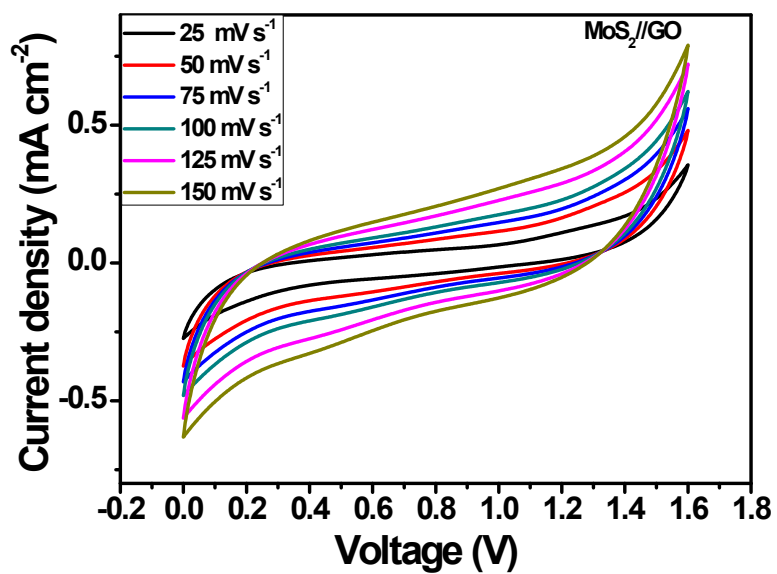


Figure S3 Scan rate dependent (25-150 mV s⁻¹) CV curves of MoS₂//GO asymmetric supercapacitor device within optimized potential window of 0 to 1.6 V in aqueous 1 M Na₂SO₄.

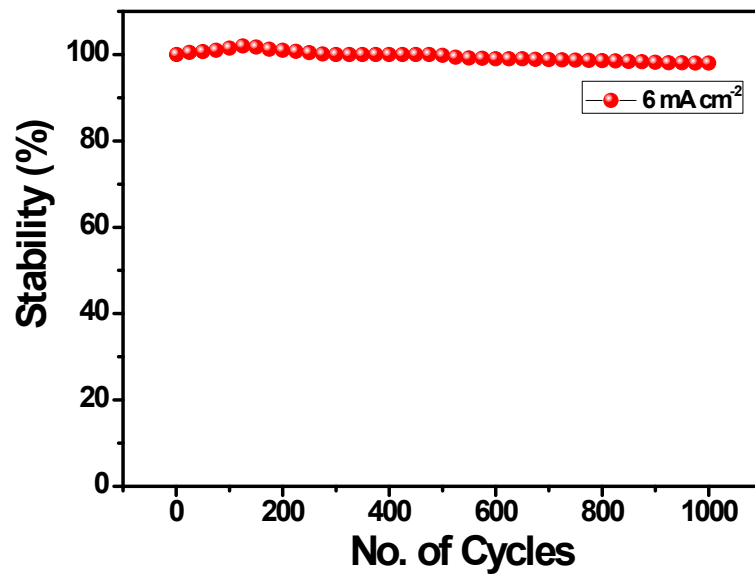


Figure S4 Stability graph of MoS₂/GO//GO asymmetric supercapacitor device over 1000 cycles at 6 mA cm⁻² charging-discharging current density.