

## Supplimentary data file

### Fabrication of MoS<sub>2</sub>/rGO hybrids as electrocatalyst for water splitting applications

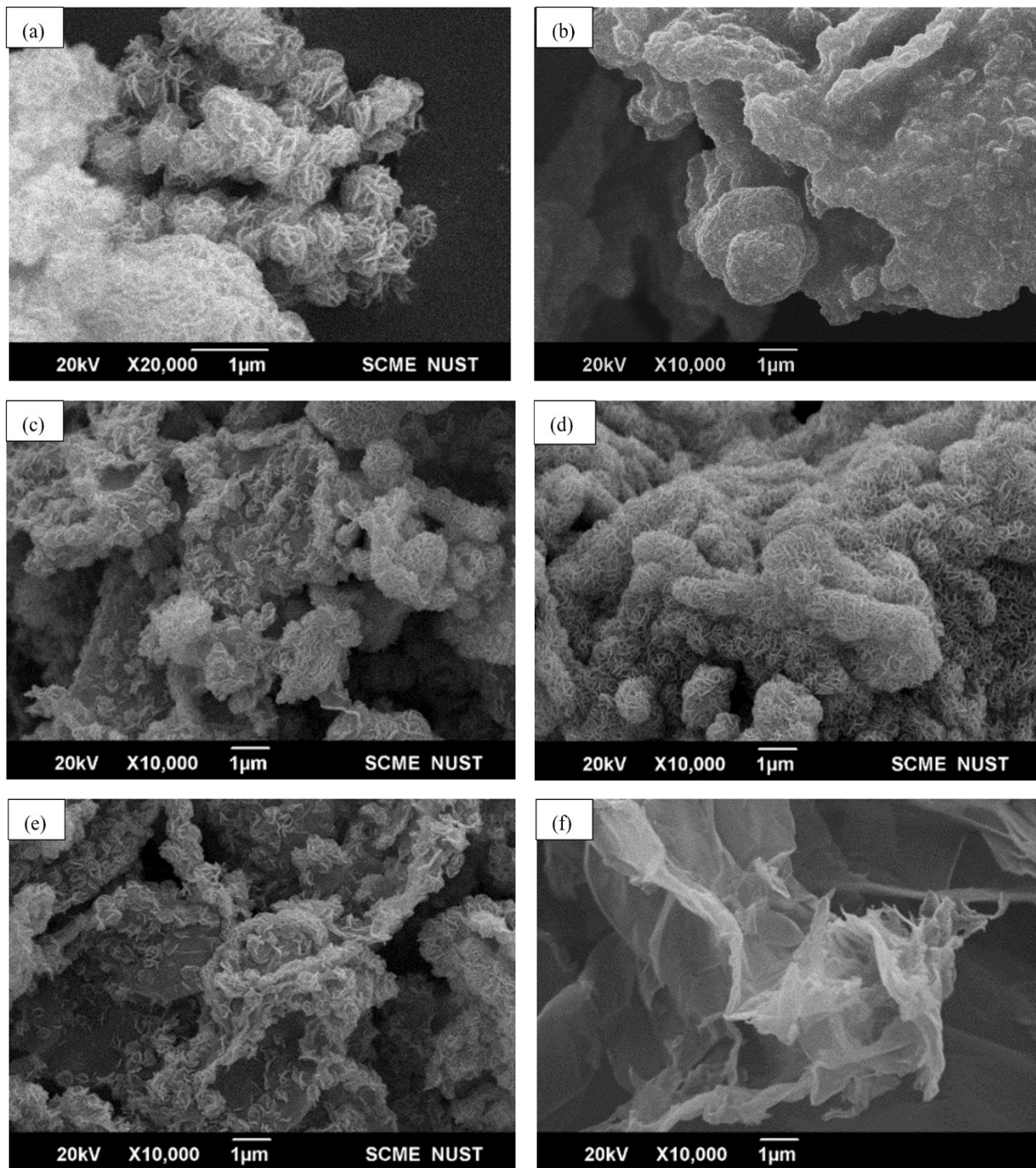


Figure S1: SEM images of (a) Pure MoS<sub>2</sub> (b) 1 wt % MoS<sub>2</sub>/rGO (c) 3 wt % MoS<sub>2</sub>/rGO (d) 5 wt % MoS<sub>2</sub>/rGO (e) 8 wt % MoS<sub>2</sub>/rGO (f) rGO sheets

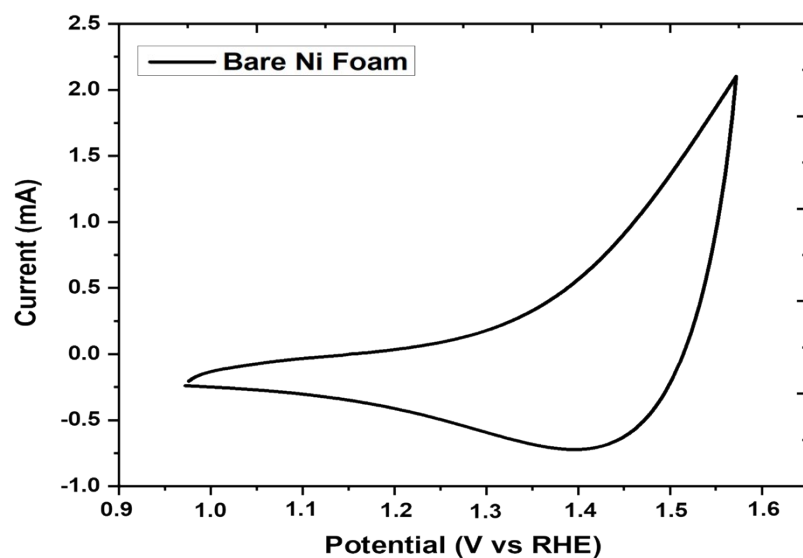


Figure S2.: Cyclic voltammetry of bare nickel foam in 1 M KOH

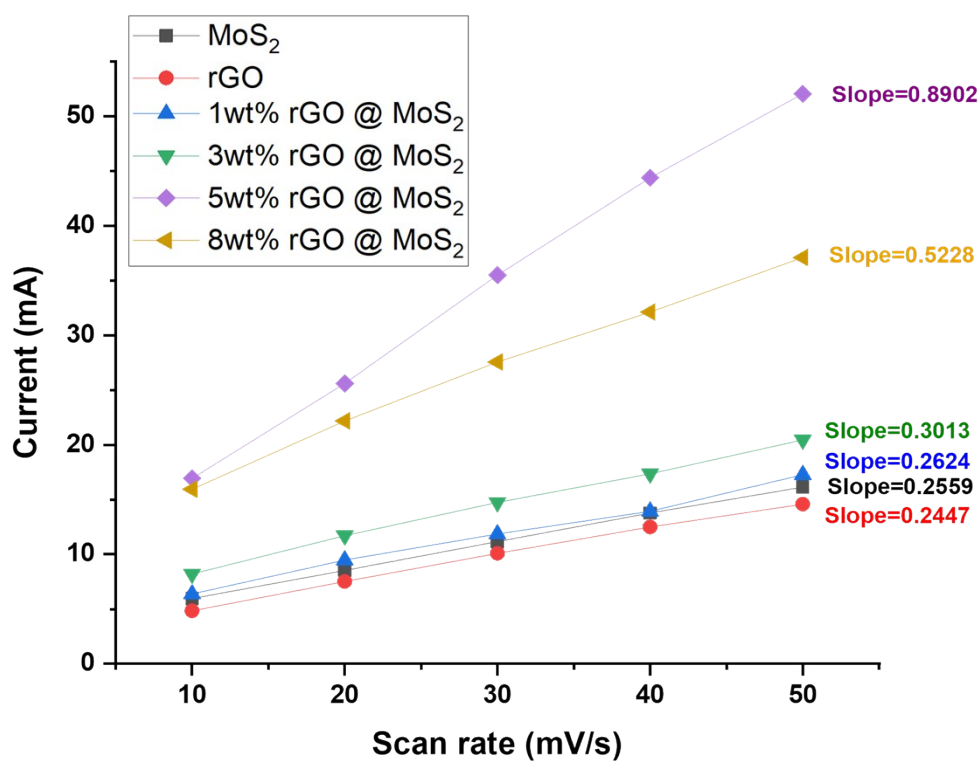


Figure S3: Electrochemical surface comparison for pure MoS<sub>2</sub>, rGO, 1, 3, 5 and 8 wt % hybrids

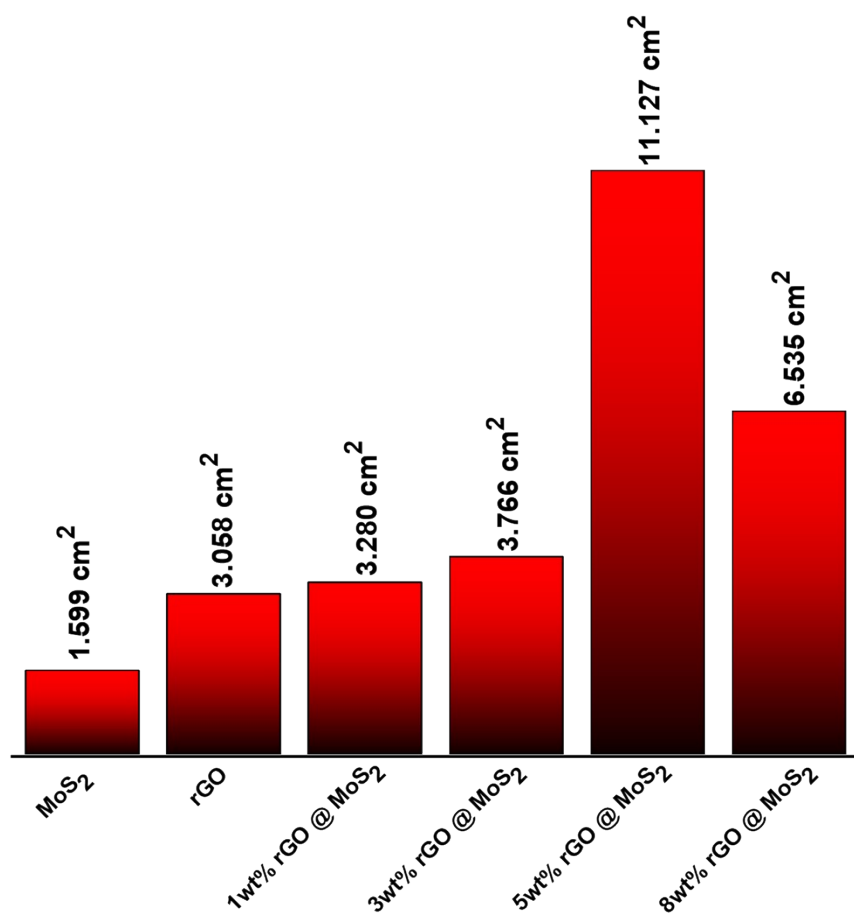


Figure S4: Electrochemical surface Area comparison for pure MoS<sub>2</sub>, rGO, 1, 3, 5 and 8 wt % hybrids