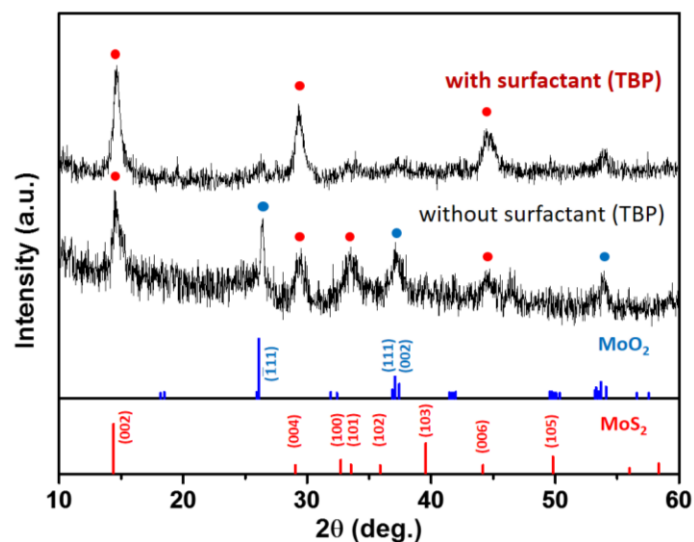
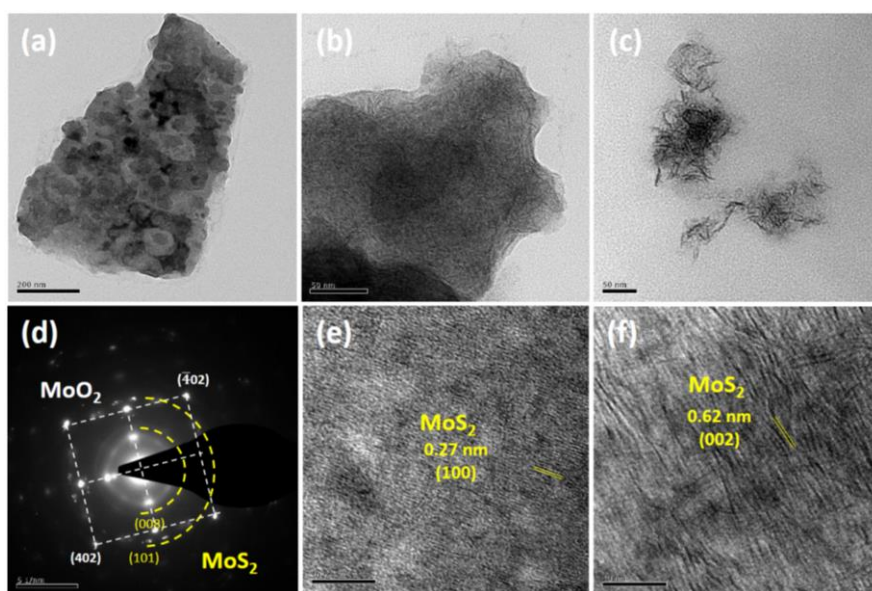


# Supplemental Document

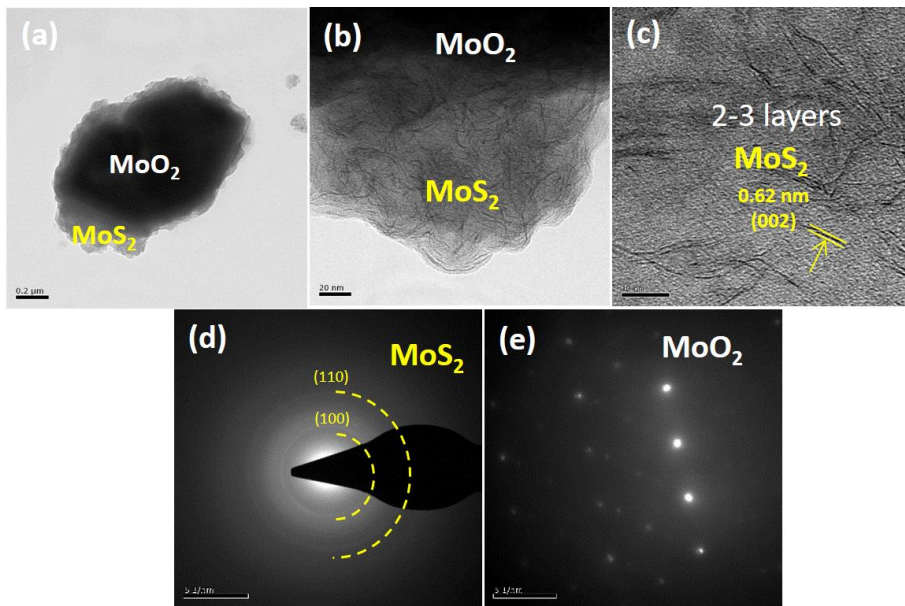
#3526 Tunable MoS<sub>2</sub> and MoS<sub>2</sub>-based Electrocatalysts by Hot-injection Method for Hydrogen Evolution Reaction



**Figure 1** XRD of MoS<sub>2</sub> and MoS<sub>2</sub>-MoO<sub>2</sub> with and without adding surfactant TBP and react at 350°C for 3 hr.



**Figure 2** TEM image of (a-c) MoS<sub>2</sub> by adding surfactant TBP and react at 350°C for 3 hr. (d) SAED of (a) and HR-TEM of (e) basal plane (f) edge of MoS<sub>2</sub>.



**Figure 3** TEM image of (a-b) MoS<sub>2</sub>-MoO<sub>2</sub> composite at 350°C for 3hr and corresponding (c) HR-TEM, (d-e) SADP.