

Electronic Supplementary Information

Binary V-Mo sulfides grown on CNTs with morphological and electronic modulation for enhanced hydrogen evolution

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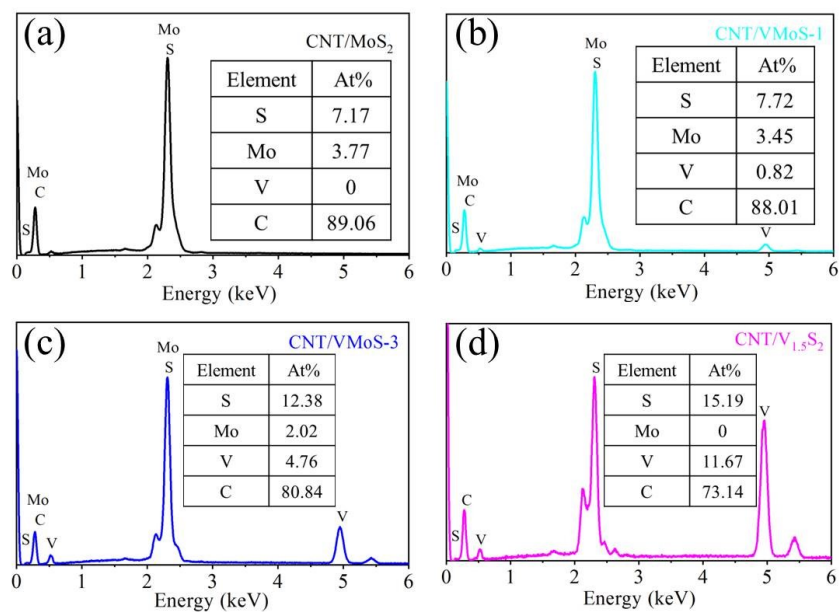


Fig. S1. EDS pattern of (a) CNT/MoS₂, (b) CNT/VMoS-1, (c) CNT/VMoS-3 and (d) CNT/V_{1.5}S₂. Insets are the corresponding atomic%.

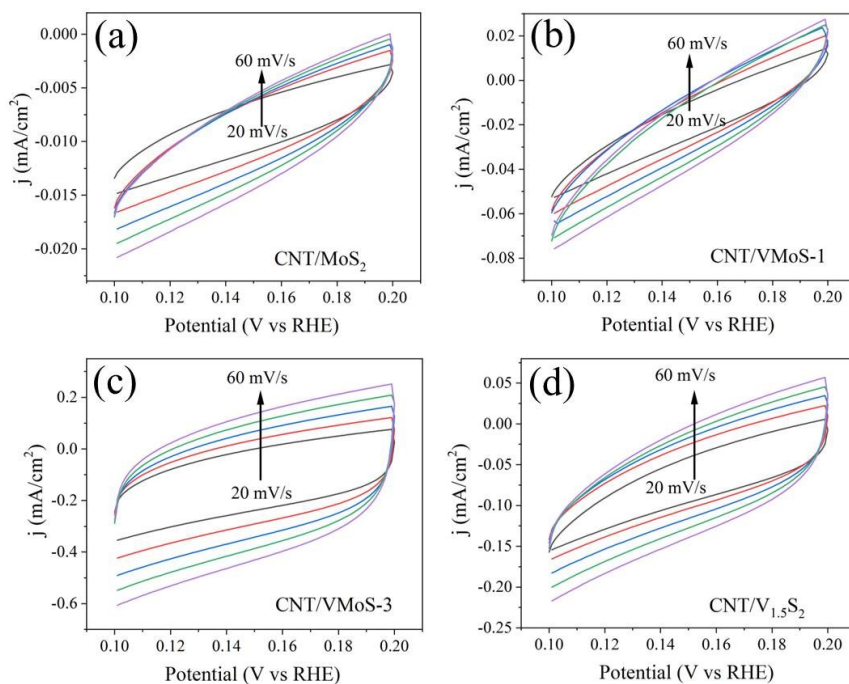


Fig. S2. (a-d) Electrochemical cyclic voltammogram of as-grown catalysts at different potential scanning rates. The scan rates are 20, 30, 40, 50 and 60 mV/s. The selected potential range where no faradic current was observed is 0.10 to 0.2 V vs RHE.

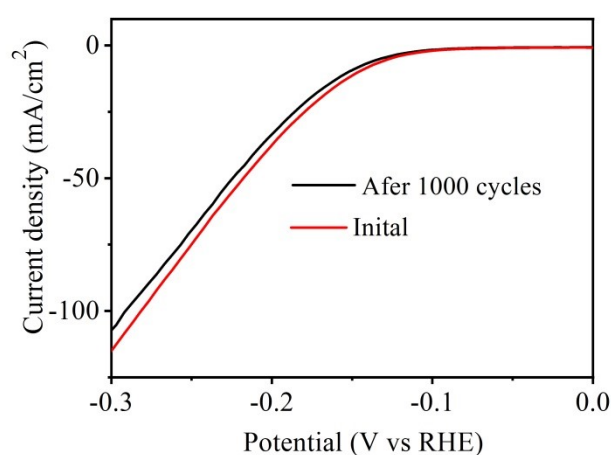


Fig. S3. Stability of CNT/VMoS-2 in 0.5 M H_2SO_4 solution after 1000 cycles. The slight degradation indicating that the catalyst is stable in electrochemical process.