Supporting Information

Efficient photocatalytic hydrogen production over Eosin Y-sensitized MoS2

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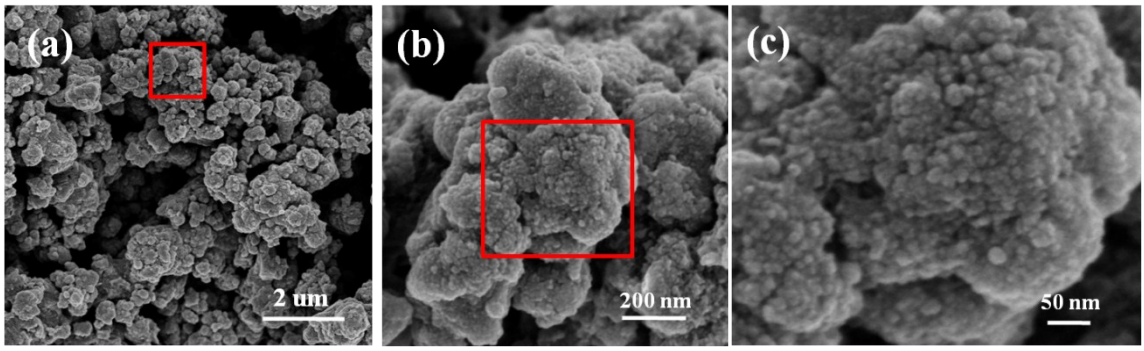

Fig. S1. SEM images of MoS_2 sample recovered after four runs of H_2-evolving reaction.

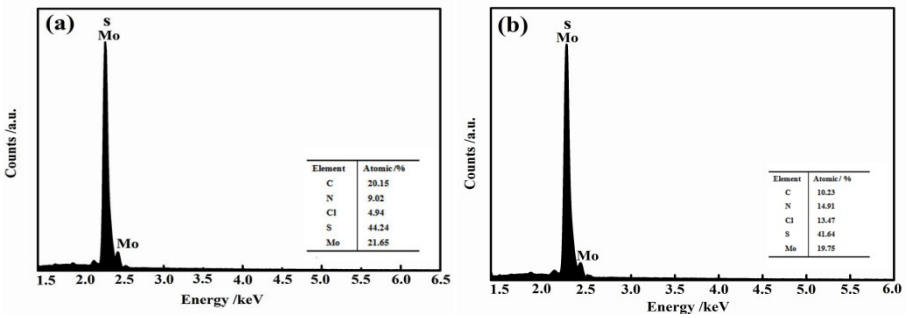

Fig. S2. EDS analyses of the MoS_2 samples (a) as-prepared and (b) recovered after four runs of H_2-evolving reaction.

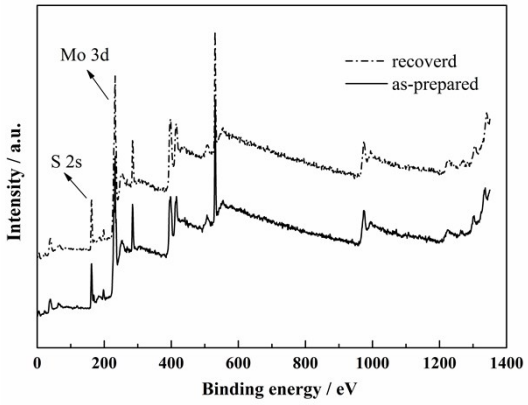

Fig. S3. XPS survey spectra of MoS_2 samples as-prepared and recovered after after four runs of H_2-evolving reaction.

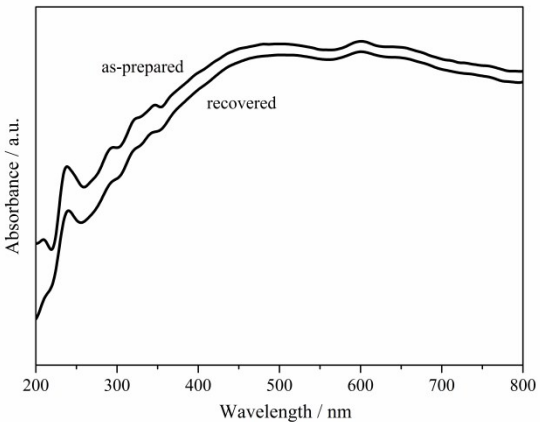

Fig. S4. UV-vis diffuse reflectance spectra of MoS_2 samples as-prepared and recovered after four runs of H_2-evolving reaction.

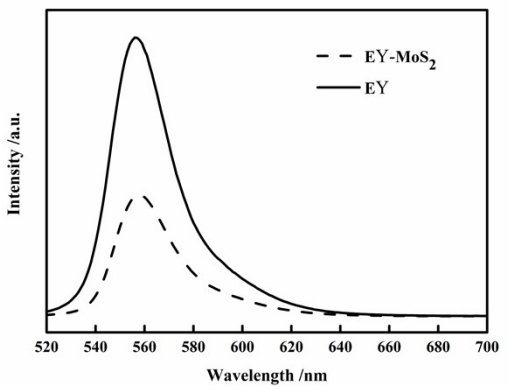

Fig. S5. Fluorescence quenching of EY (0.01 mM) by MoS_2 in aqueous TEOA solution (pH = 7.0)