Supporting Information

2D-MoS_2 nanosheets as effective hole transport materials for colloidal PbS quantum dot solar cells

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Figure S1:

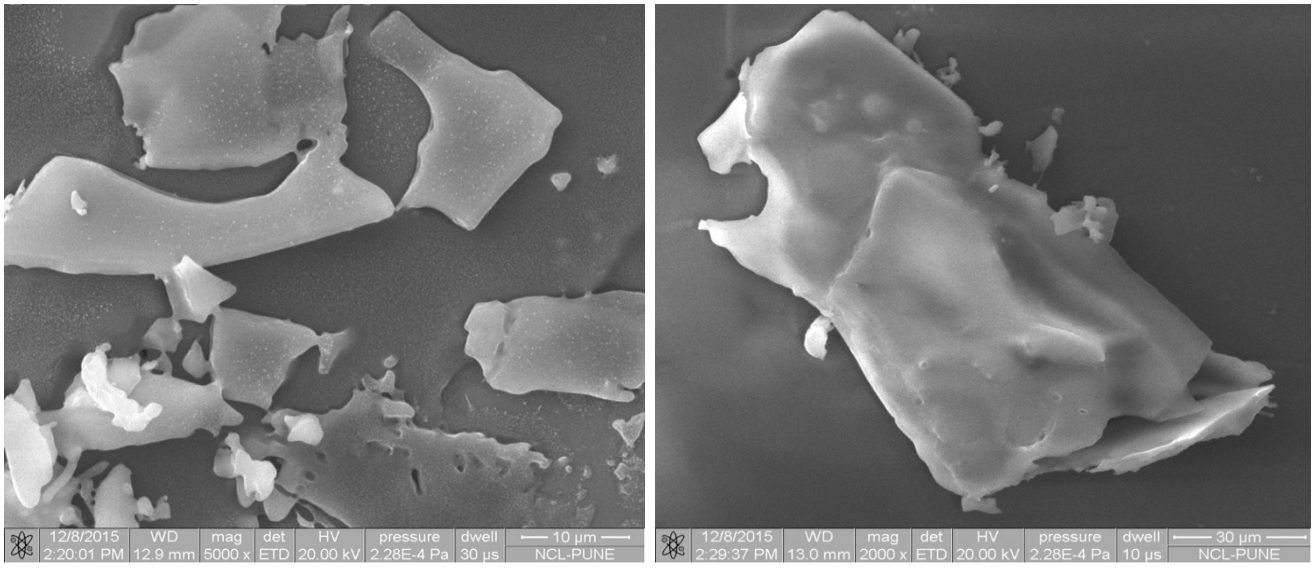

Figure S1. SEM images of MoS_2 nanosheets showing lateral dimension of the sheet between 10 to 100 µm

Figure S2:

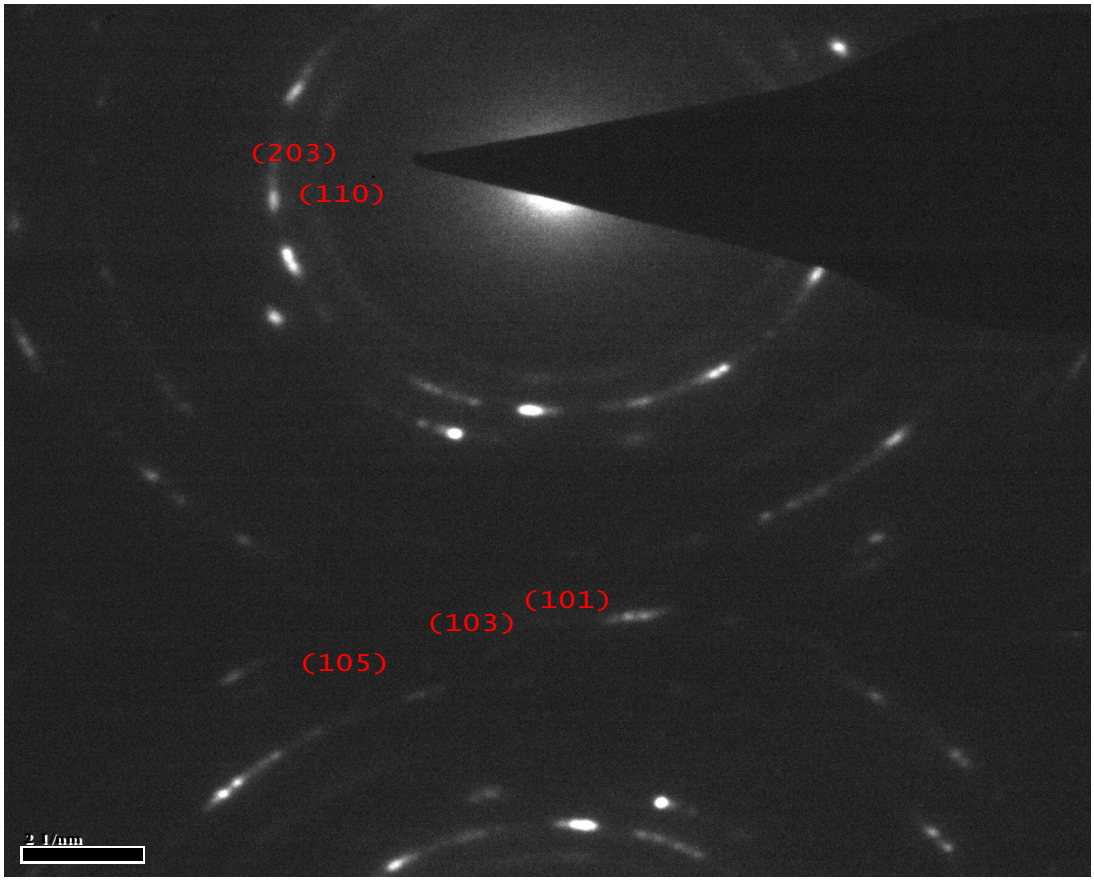

Figure S2. Typical SAED pattern of MoS_2 nanosheets.

Figure S3:

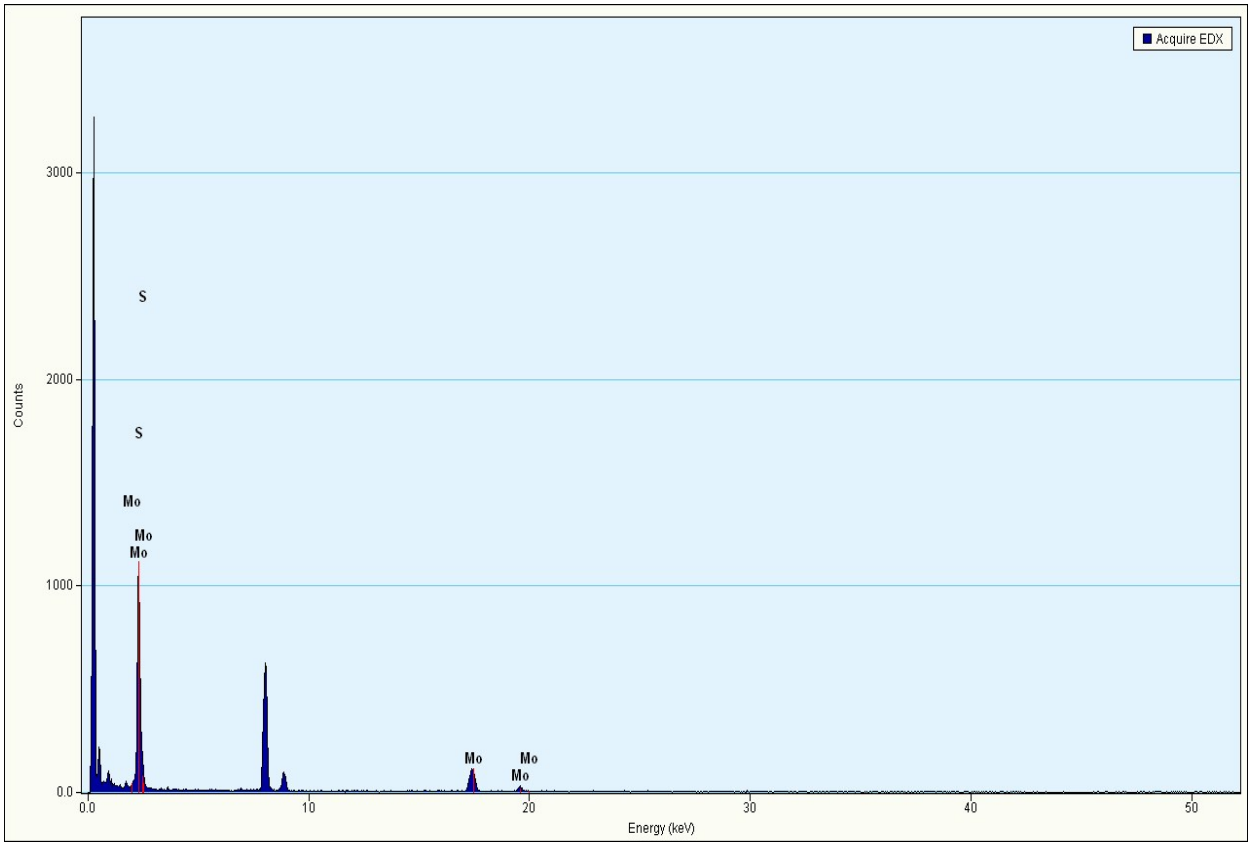

Figure S3. Energy Dispersive X-Ray Analysis (EDAX) of MoS_2 nanosheets.

Figure S4:

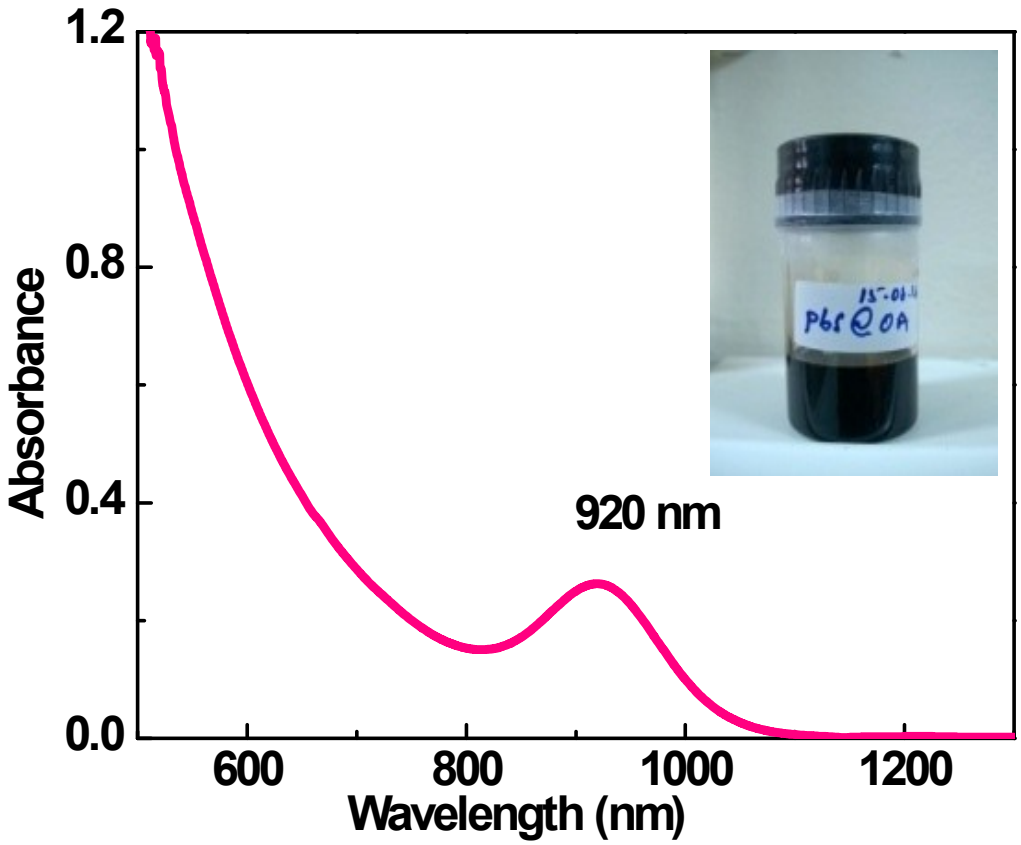

Figure S4. Absorption spectra of oleic acid capped PbS quantum dots; inset picture shows dispersed quantum dots in toluene.

Figure S5:

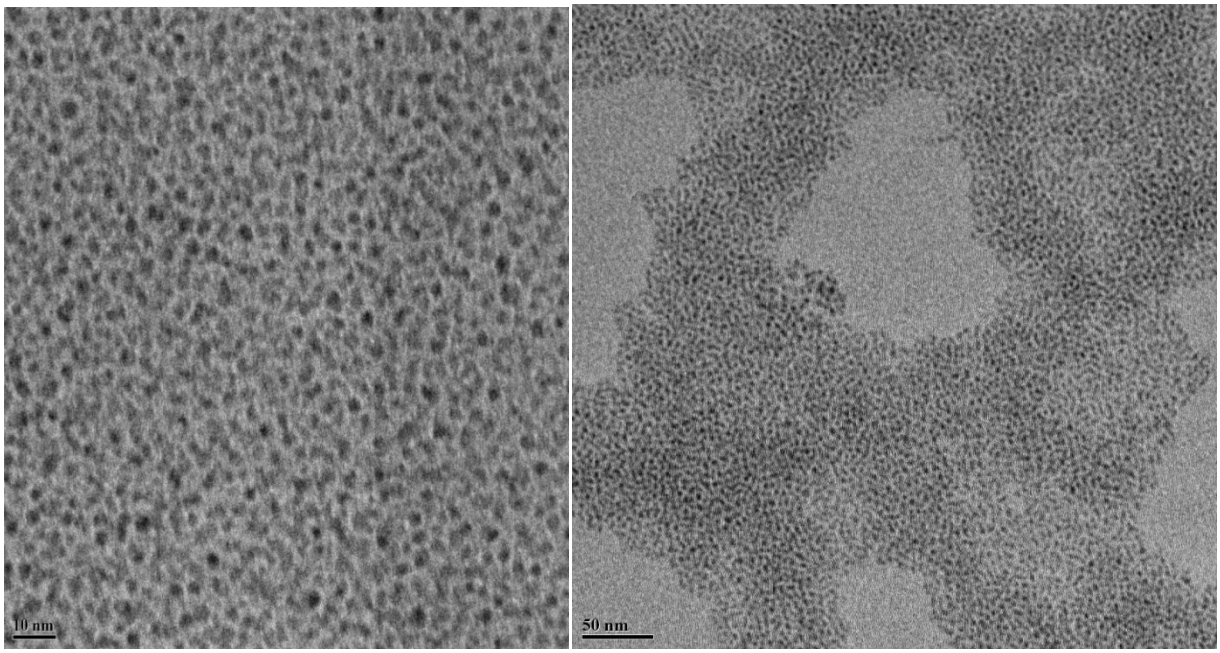

Figure S5. Typical TEM images of PbS quantum dots.