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Supporting Information for

Tunable Growth of PbS Quantum Dots-ZnO Heterostructure and

Mechanism Analysis

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Supporting information S1:



Figure S1. EDS of PbS QDs-ZnO heterostructure formed by using pure WATER as solvent of Pb(NO₃)₂.

Supporting information S2:



Figure S2. HRTEM image of PbS QDs-ZnO heterostructure formed in Pb(NO₃)₂ solution with volume ratio of ethanol/water 2:1.

Supporting information S3:



Figure S3. EDS of PbS QDs-ZnO heterostructure formed by using ethanol/water mixture (v/v=2:1) as solvents of Pb(NO₃)₂ solutions. The concentration of Pb(NO₃)₂ is 0.03 M coresponding to sample in Figure 5c.

Supporting information S4:



Figure S4. SEM images of PbS QDs-ZnO heterostructures formed by SILAR method with different dipping times in $Pb(NO_3)_2$ solution each circle: (a) 3 times; (b) 5 times.