Supporting Information

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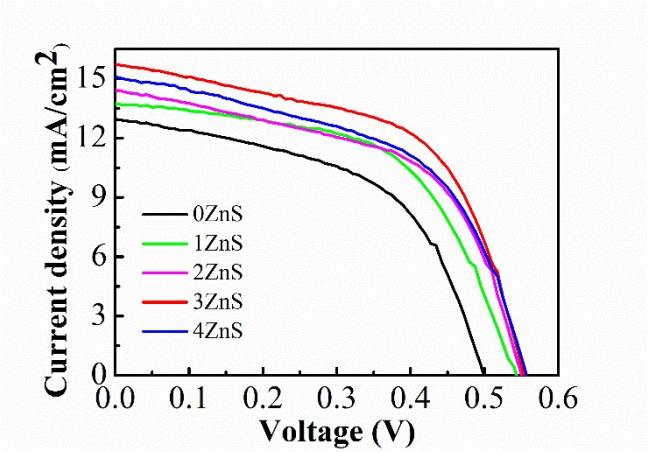

Figure S1 Photocurrent density–voltage (J–V) curves of TiO_2/CdS/CdSe QDSCs with various SILAR cycles of ZnS passivation layer measured under AM 1.5, 100 mW/cm^2 sunlight.

Table S1 Photovoltaic properties obtained from the J–V curves with various ZnS passivation layer.

Samples	V_{oc}(V)	J_{sc}(mA cm^{-2})	FF	η (%)
0ZnS	0.50	12.94	0.52	3.42
1ZnS	0.54	13.73	0.56	4.18
2ZnS	0.55	14.39	0.55	4.36
3ZnS	0.55	15.71	0.57	4.91
4ZnS	0.56	15.08	0.53	4.47

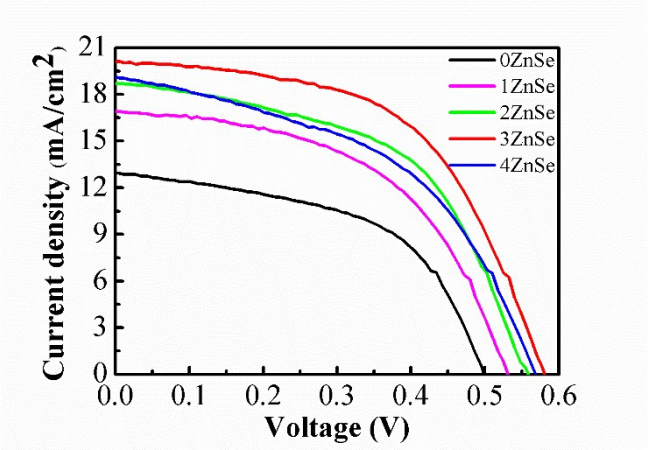

Figure S2 Photocurrent density–voltage (J–V) curves of TiO_2/CdS/CdSe QDSCs with various SILAR cycles of ZnSe passivation layer measured under AM 1.5, 100 mW/cm^2 sunlight.

Table S2 Photovoltaic properties obtained from the J–V curves with various SILAR cycles of ZnSe passivation layer.

Samples	V_{oc} (V)	J_{sc} (mA cm^{-2})	FF	Ƞ (%)
0ZnSe	0.50	12.94	0.52	3.42
1ZnSe	0.53	16.90	0.52	4.63
2ZnSe	0.56	18.70	0.53	5.51
3ZnSe	0.58	20.11	0.55	6.39
4ZnSe	0.57	19.12	0.48	5.18

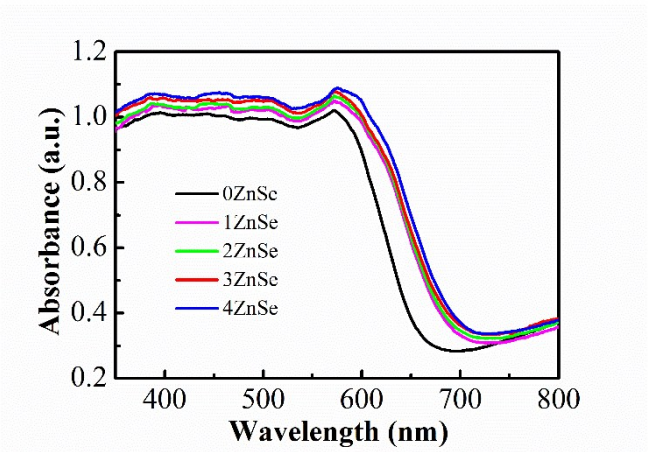

Figure S3 UV-visible absorption spectra of TiO_2/CdS/CdSe films with various SILAR cycles of ZnSe passivation layer.