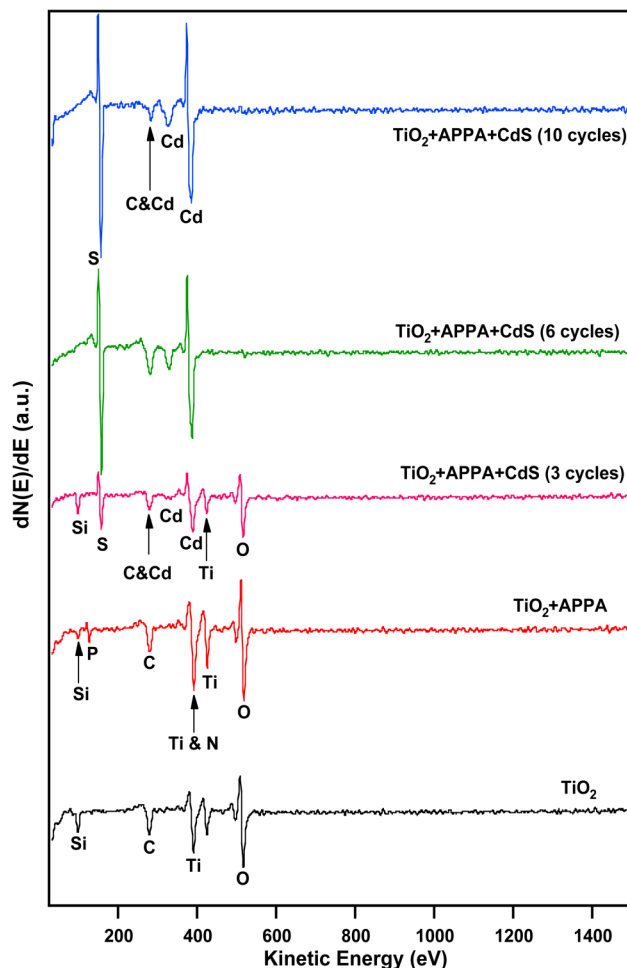


## Supporting information for Effects of Self-Assembled Monolayers on Solid-State CdS Quantum Dot Sensitized Solar Cells

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**Figure S1** Auger electron spectra of Si/SiO<sub>2</sub> surface after 50 cycles of TiO<sub>2</sub> ALD, APPA SAM growth, 3, 6, and 10 CdS SILAR cycles. All spectra are shown on the same scale.

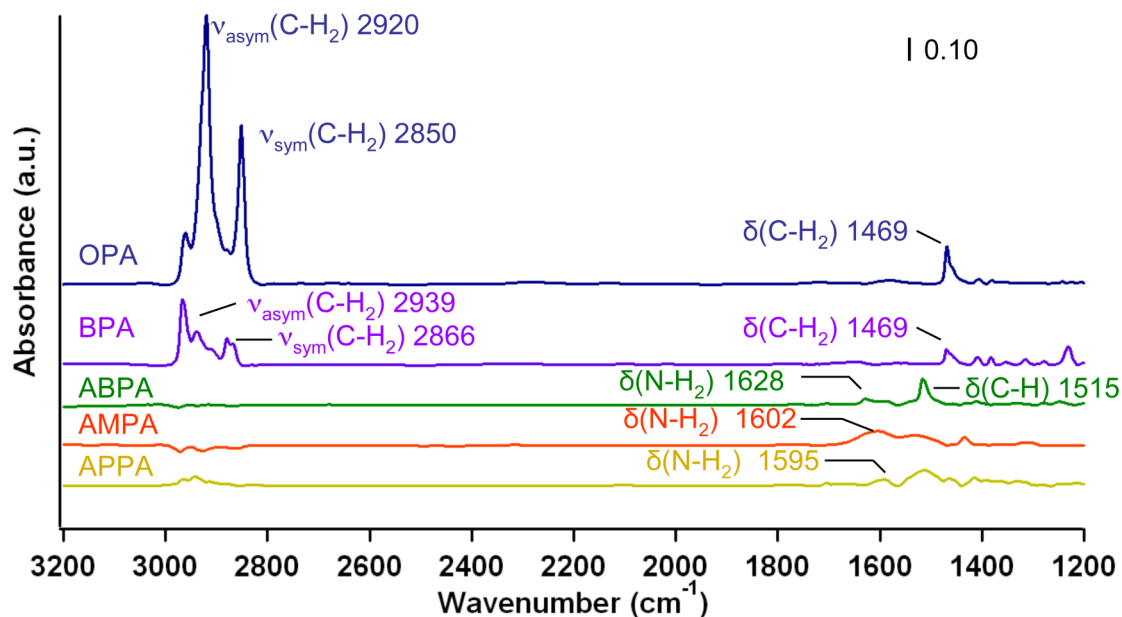


Figure S2 Transmission infrared spectra for various SAMs formed at the planar  $\text{TiO}_2$  surface.

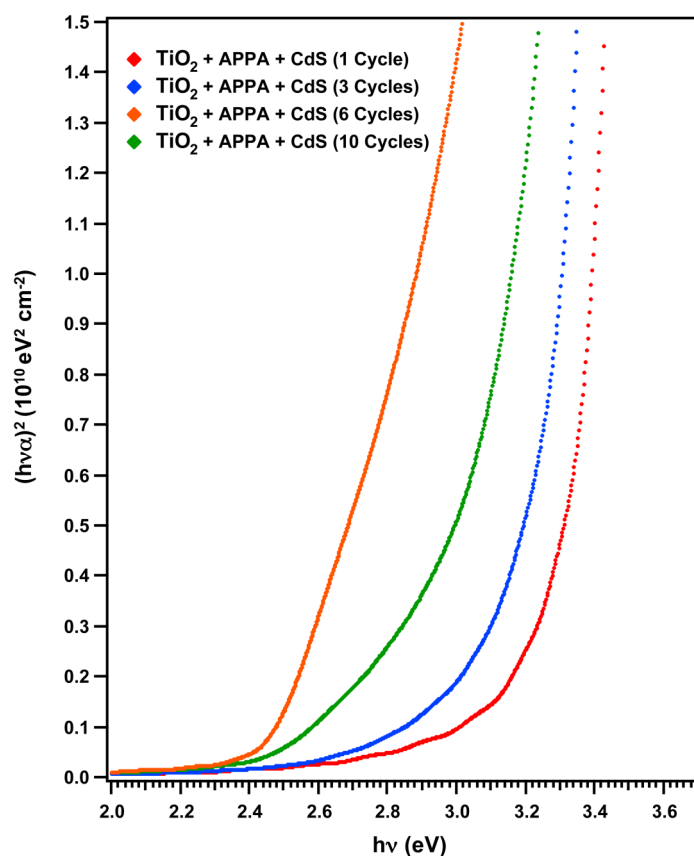


Figure S3 Tauc plots of APPA-coated nanostructured  $\text{TiO}_2$  surface at different number of CdS SILAR cycles.

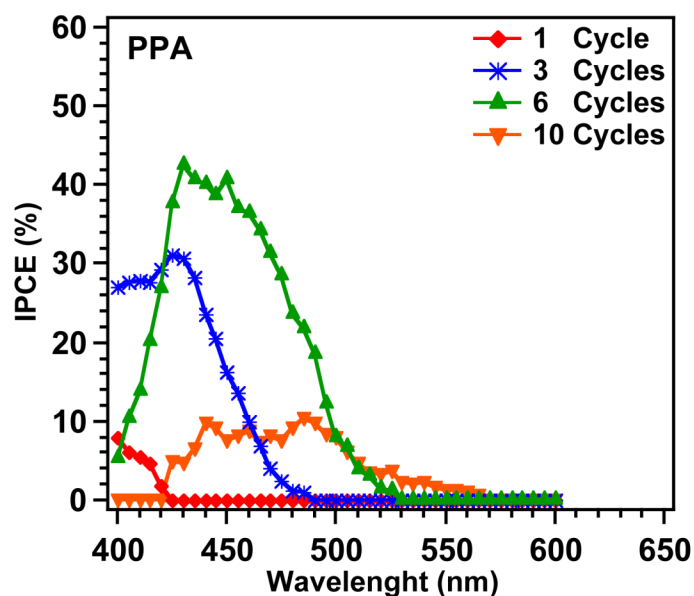


Figure S4 Dependence of IPCE spectra of PPA-based solid-state CdS QDSSCs on number of CdS SILAR cycles.

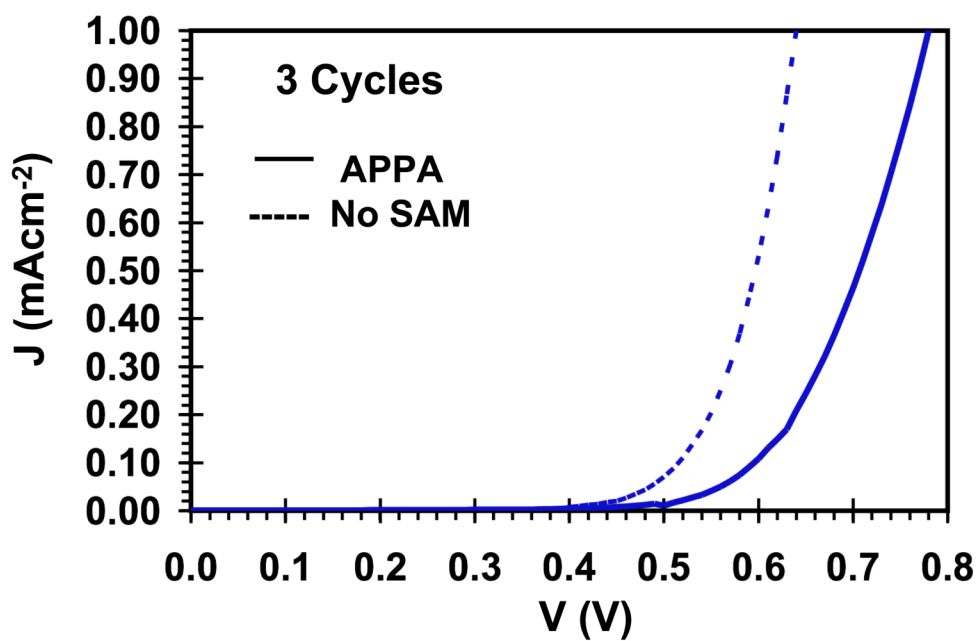


Figure S5 Dependence of current density vs. voltage curves of the APPA and no-SAM-based solid-state CdS QDSSCs after 3 CdS SILAR cycles under dark condition.