Supporting information

ZnO@Ag₂S core-shell nanowire arrays for environmental friendly solid-state quantum dot-sensitized solar cell with panchromatic light capture and enhanced electron collection

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Figure S1. Cross-sectional SEM image of ZnO nano seeds layer covered FTO substrate. The layer thickness is around 100 nm.
Figure S2. SEM image of top surface of ZnO NPs seeds covered FTO substrates.
Figure S3. Light absorption spectra of ZnO NWAs film.
Figure S4. IPCE spectrum of the device without QDs than only contains NWAs and P3HT.

Figure S5. Electron transport time as function of short-circuit density for NWAs device with different NW length.
Figure S6. Photocurrent density as a function of NW length in core-shell NWAs photoanode.