Supplementary data

CdS/CdSe co-sensitized hierarchical TiO$_2$ nanofiber/ZnO nanosheet heterojunction photoanode for quantum dot-sensitized solar cells

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Fig. S1 XRD patterns of bare TiO$_2$ fibers film (a), hierarchical TiO$_2$-ZnO NSs film (b), hierarchical TiO$_2$-ZnO NSs-500 film (c) and CdS/CdSe co-sensitized hierarchical TiO$_2$-ZnO NSs-500 film (d), the standard magenta line respects peaks of FTO substrate (JCPDS card no. 41-1445).
Fig. S2 Plots showing the extraction of the double-layer capacitances ($C_{dl}$) for the estimation of relative electrochemically active surface area of different photoanode films.
Fig. S3 SEM images of the top (a) and (b) cross-section view of the as-synthesis Cu$_2$S/FTO electrode.