Electronic supplementary information for

Heterodimers formed through a partial anionic exchange process: scanning tunneling spectroscopy to monitor bands across the junction vis-à-vis photoinduced charge separation

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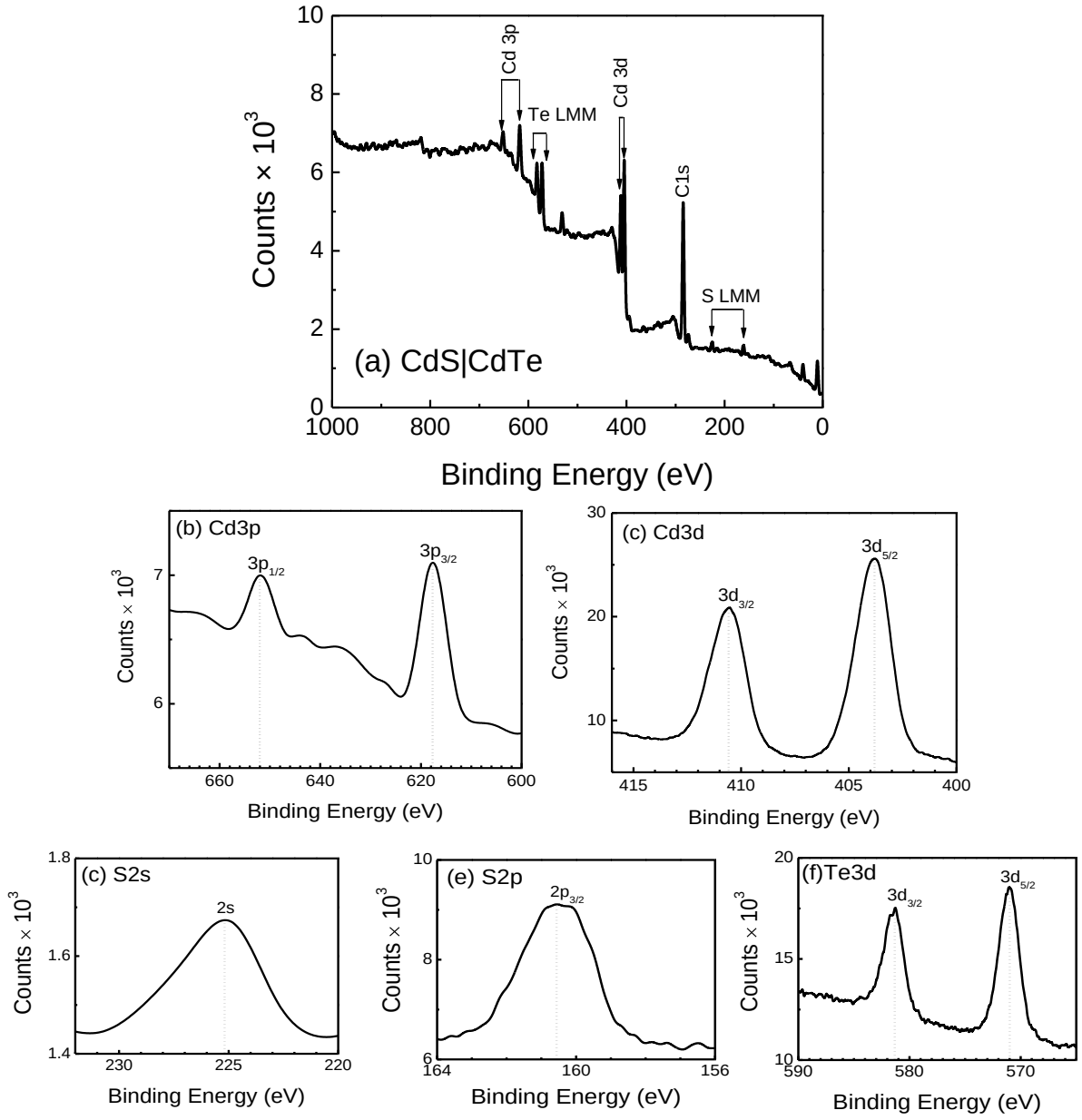

Fig. S1 XPS spectra of CdTe|CdS heterodimers, which was formed through anionic exchange reaction of CdS nanostructures for 60 min.

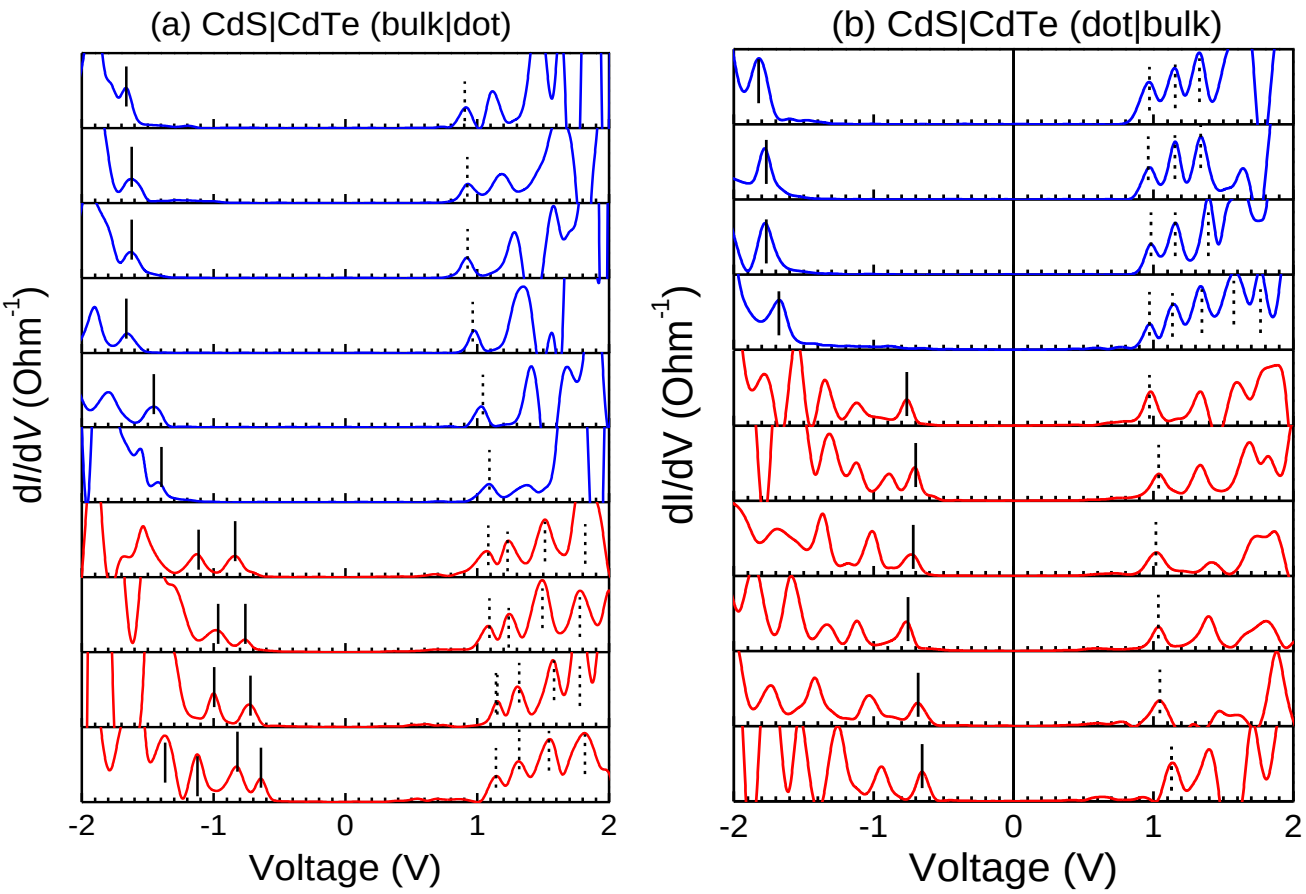

Fig. S2 DOS spectra of CdS|CdTe heterodimer in (a) bulk|dot and (b) dot|bulk forms as measured at different points on each heterodimer. The broken and continuous lines indicate the location of conduction and valence band-edges in the positive and negative voltage, respectively. In the dot section of bulk|dot and dot|bulk heterodimers, quantum-confined states of the dot phase have been marked by multiple vertical lines.