Cuprous Sulfide Counter Electrodes Prepared by Ion Exchange for High-Efficiency Quantum Dot-sensitized Solar Cells

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Figure S1. N\textsubscript{2} sorption isotherms of the ITO powder

Figure S2. Absorbance spectra of a bare ITO electrode (a) after depositing 10 cycles of ZnS (b) and subsequently subjected to ion exchanging for 10 min to form cuprous sulfide (c).
**Figure S3.** EDX spectra of a bare ITO electrode after depositing 10 cycles of ZnS (a) and subsequently subjected to ion exchanging for 10 min to form cuprous sulfide (b).

**Figure S4.** Glancing angle XRD patterns of Cu$_2$S(10) on ITO electrodes.