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Significant Enhancing the Stability of $\text{Cu}_2\text{ZnSnS}_4$ Aqueous/ethanol-based Precursor Solution and Its Application in $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Solar cells

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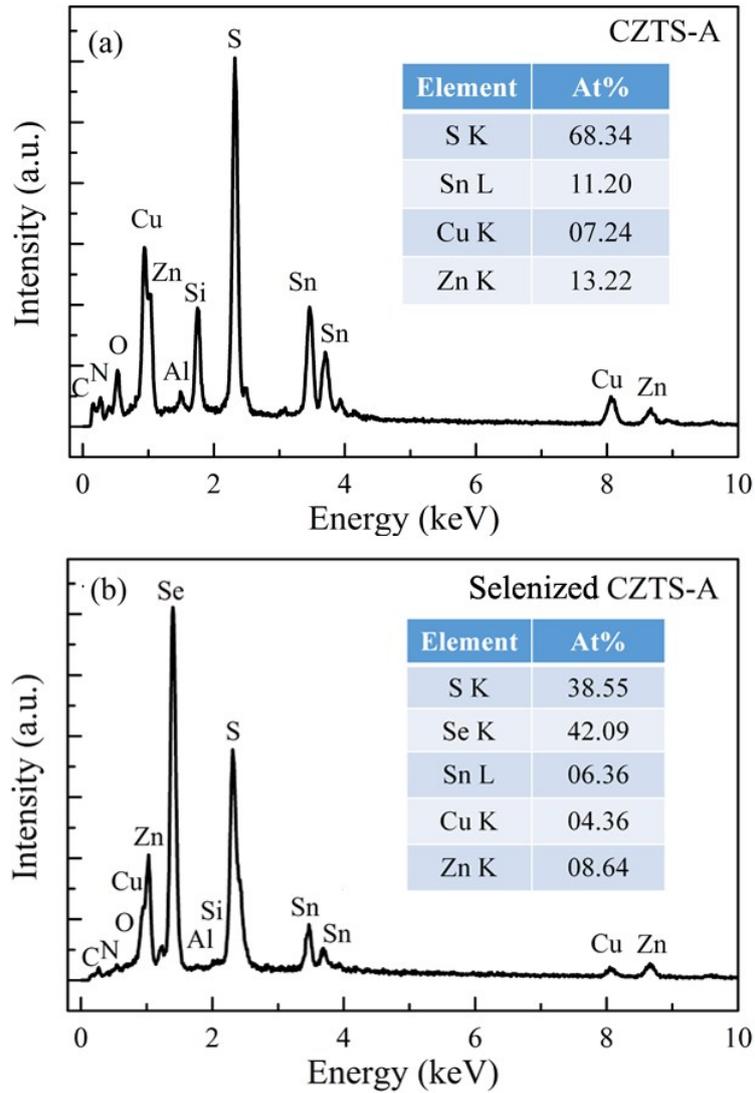


Fig. S1. EDS patterns of as-fabricated (a) and selenized (b) CZTS-A which was fabricated by spin-coating the precursor solution without MPA. The insets show the compositions.

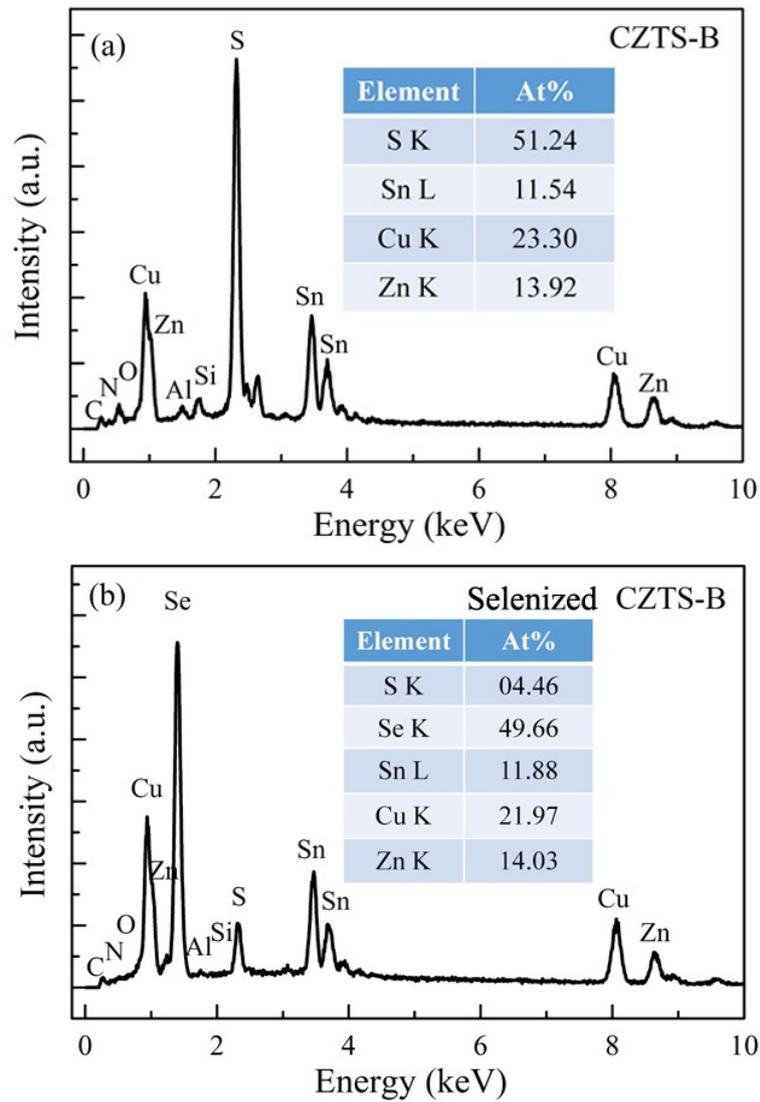


Fig. S2. EDS patterns of as-fabricated and selenized CZTS-B which was fabricated by spin-coating the precursor solution with MPA. The insets show the compositions.