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Hot-injection Synthesis of Monodispersed $Cu_2ZnSn(S_xSe_{1-x})_4$ Nanocrystals: Tunable Composition and Optical Properties

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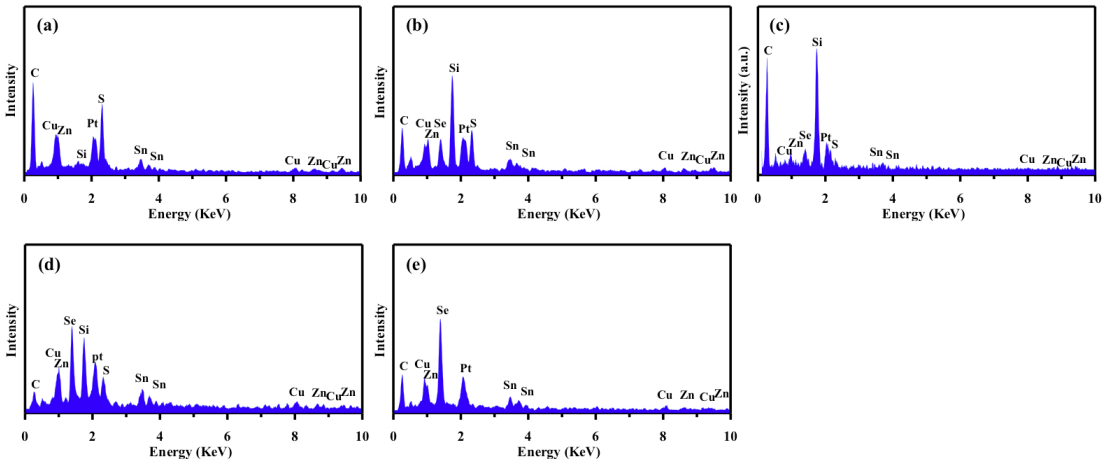

Fig. S1. The energy-dispersive X-ray spectrum of the (a) Cu_2ZnSnS_4, (b) $Cu_2ZnSn(S_{0.7}Se_{0.3})_4$, (c) $Cu_2ZnSn(S_{0.5}Se_{0.5})_4$, (d) $Cu_2ZnSn(S_{0.3}Se_{0.7})_4$, and (e) $Cu_2ZnSnSe_4$ nanocrystals. The Pt peaks are due to the sample pretreatment of SEM used in the measurement and Si peaks come from the substrate of silicon wafer.