Supporting Information

Lead-Free Cesium Tin Halide Nanocrystals for Light-Emitting Diodes and Color Down Conversion

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Keywords: perovskite; lead-free; nanocrystals; temperature-dependent; light-emitting diodes

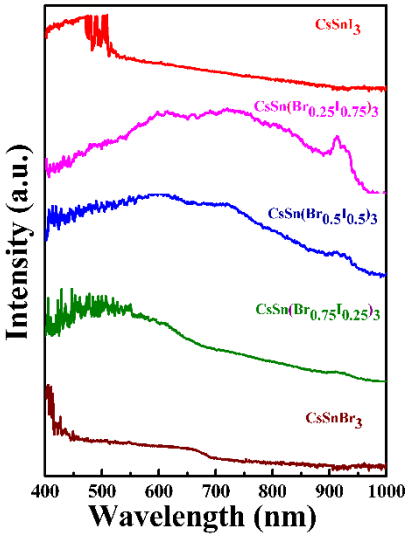

Figure S1. Absorption spectra of $CsSn(Br_xI_{1-x})_3$ perovskite nanocrystals.

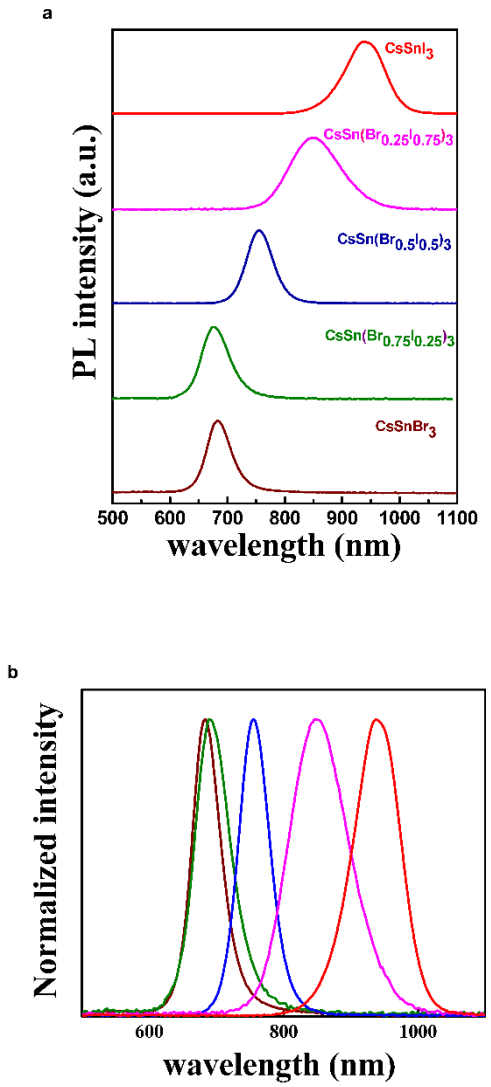

Figure S2. (a) Photoluminescence spectra of $CsSn(Br_xI_{1-x})_3$ perovskite nanocrystals. (b) Normalized photoluminescence spectra of $CsSn(Br_xI_{1-x})_3$ perovskite nanocrystals.

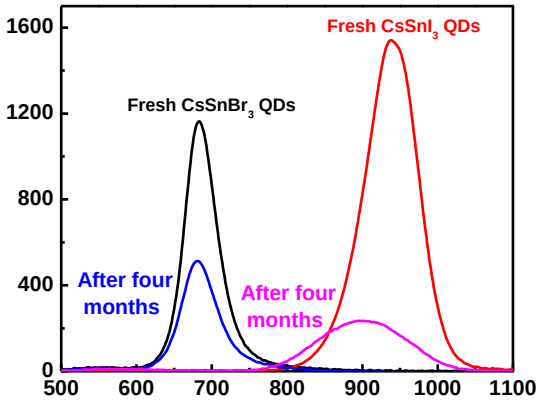

Figure S3. Photoluminescence spectra of fresh and aged (4 months) $CsSnBr_3$ and $CsSnI_3$ solutions.

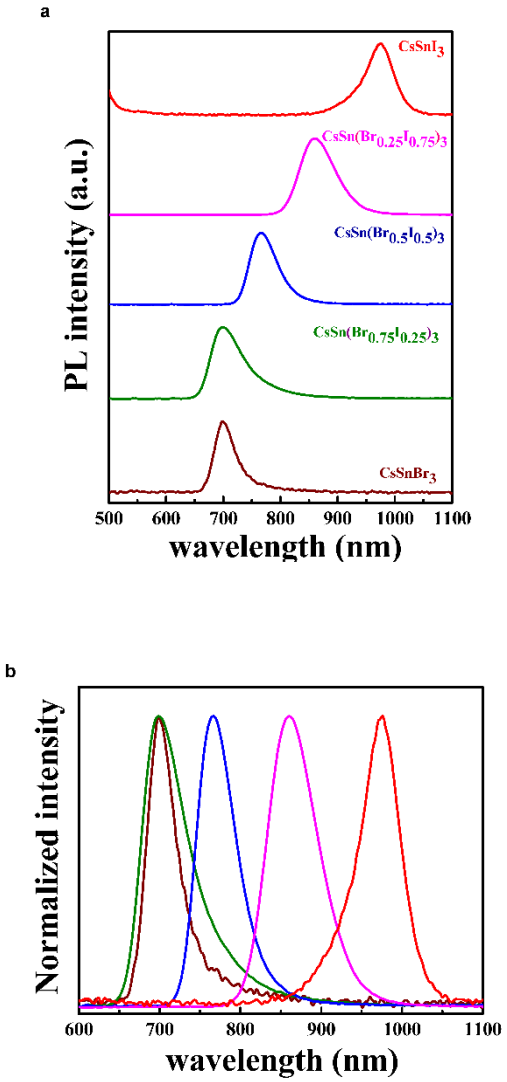

Figure S4. (a) Photoluminescence spectra and (b) normalized photoluminescence spectra of $CsSn(Br_xI_{1-x})_3$/PMMA composite films.