Supporting Information

Microwave-Assisted Synthesis of High-Quality All-Inorganic CsPbX₃ (X = Cl, Br, I) Perovskite Nanocrystals and the Application in Light Emitting Diode

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Figure S1. Photograph of microwave reactor used in this work.
**Figure S2.** TEM images of (a) CsPb(Cl/Br)$_3$, (b) CsPb(Br/I)$_3$, (c) CsPbCl$_3$, (d) CsPbI$_3$ NCs synthesized at 160 °C.
**Figure S3.** Size distribution histograms of (a) CsPbBr$_3$, (b) CsPb(Cl/Br)$_3$, and (c) CsPb(Br/I)$_3$. TEM images are shown in Figure S2.
**Figure S4.** (a, c) TEM images of (a) CsPb(Cl/Br)$_3$ and (c) CsPb(Br/I)$_3$ nanoplates. (b, d) UV-vis absorption and PL emission spectra of (b) CsPb(Cl/Br)$_3$ and (d) CsPb(Br/I)$_3$ nanoplates.
Figure S5. (a, c) TEM image of (a) CsPb(Cl/Br)$_3$ and (c) CsPb(Br/I)$_3$ nanorods. (b, d) UV-vis absorption and PL emission spectra of (b) CsPb(Cl/Br)$_3$ and (d) CsPb(Br/I)$_3$ nanorods.
Figure S6. Size distribution histogram of CsPbBr$_3$ nanocrystals obtained at 140 °C. TEM image is shown in Figure 4b.
Figure S7. Size distribution histograms of (a) CsPbBr$_3$, (b) CsPb(Cl/Br)$_3$, and (c) CsPb(Br/I)$_3$ NCs synthesized by using Cs$_2$CO$_3$ as the cesium source. TEM images are shown in Figure 5.