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Electronic Supplementary Information

Thermal degradation of luminescence in inorganic perovskite CsPbBr₃

nanocrystals

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Fig. S1 PL spectra of CsPbBr₃ NC492 at 300 K. The black lines represent the PL spectra of the CsPbBr₃ NCs before heating to 320 K (a), 340 K (b), 360 K (c), and 400 K (d), and the red lines refer to those of the CsPbBr₃ NCs after cooling from the designed temperature to 300 K.



Fig. S2 Normalized EL spectra of the LEDs based on CsPbBr₃ NC492 (a) and NC517 (b) via different operation time. The devices were operated at a current of 20 mA.



Fig. S3 Temperature-dependent PL spectra of CsPbBr₃ NC517 films annealed at 300 K (a), 320 K (b), 340 K (c), 360 (d), 380 (e), and 400 K (f).



Fig. S4 Temperature-dependent PL intensities (a), peak energies (b), and linewidths (c) of CsPbBr₃ NC517 films annealed at different temperatures.