

Supporting Information for

Heating-Up Synthesis of Cesium Bismuth Bromide

Perovskite Nanocrystals with Tailored

Composition, Morphology, and Optical Properties

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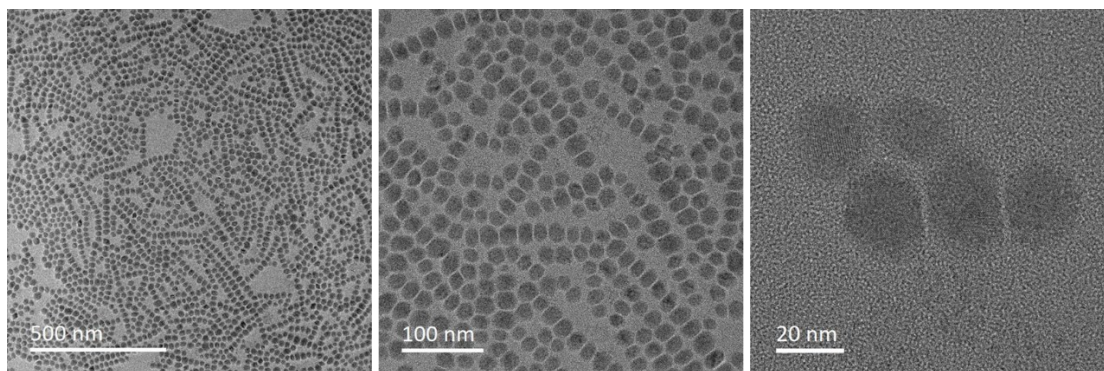


Fig. S1 TEM images of Cs₃BiBr₆ NCs.

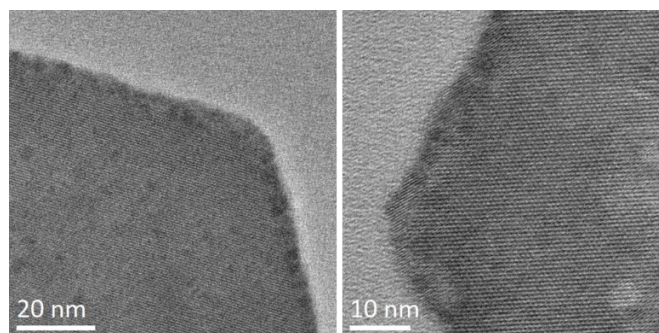


Fig. S2 High resolution TEM images of Cs₃Bi₂Br₉ NPs.

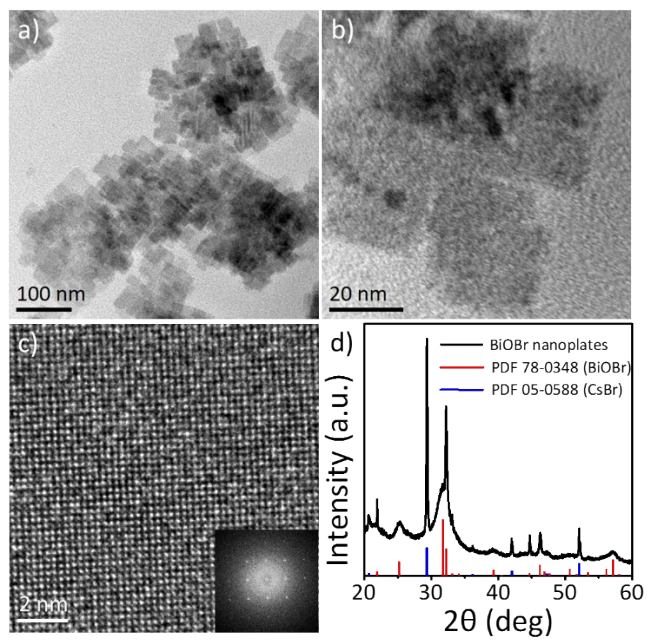


Fig. S3 a,b) TEM and c) HRTEM images of BiOBr nanoplates. d) XRD patterns of BiOBr nanoplates.

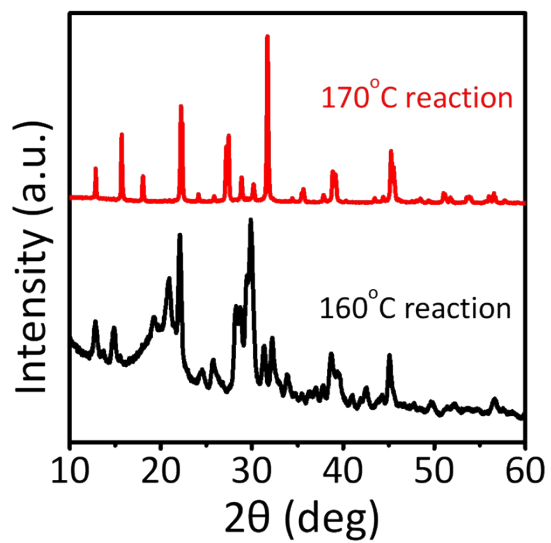


Fig. S4 XRD patterns of perovskite NCs synthesized at 160 °C and 170 °C for 1 h in the presence of 1.5 mL of OA.

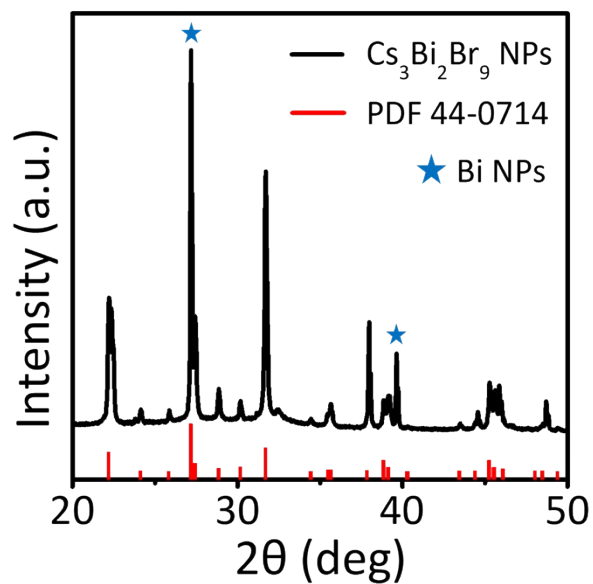


Fig S5. XRD patterns of sample synthesized at 200 °C for 1 h in the presence of 1.5 mL of OA.

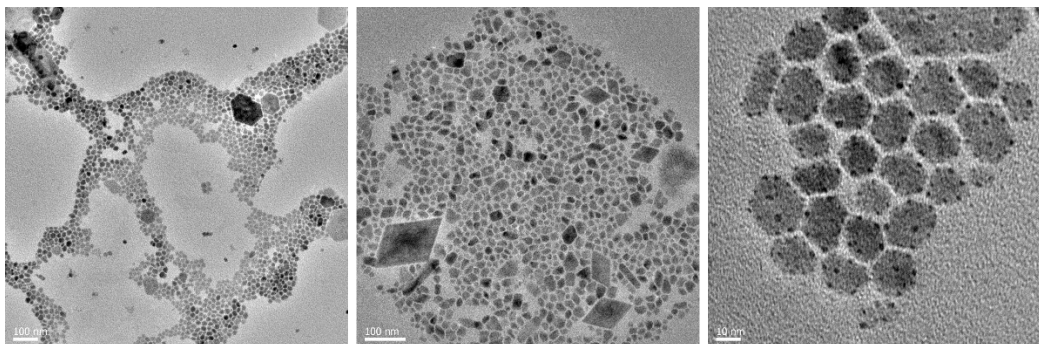


Fig. S6 TEM images of small Cs₃Bi₂Br₉ NCs synthesized at 100 °C for 30 min with 15 mL of OA.

Sample	α_1 (%)	τ_1 (ns)	α_2 (%)	τ_2 (ns)	τ_{ave} (ns)	χ^2
Cs ₃ BiBr ₆ NCs	46.62	4.24	24.14	12.63	2.63	1.18
Cs ₃ Bi ₂ Br ₉ NPs	40.19	2.77	26.35	12.16	1.52	0.94

Table S1. Photoluminescence decay fitting results; the decay curves are fitted according to bi-exponential functions.