

Supporting Information

For

Rapid Synthesis of Cesium Lead Halide Perovskite Nanocrystals by L-lysine Assisted Solid-Phase Reaction at Room Temperature

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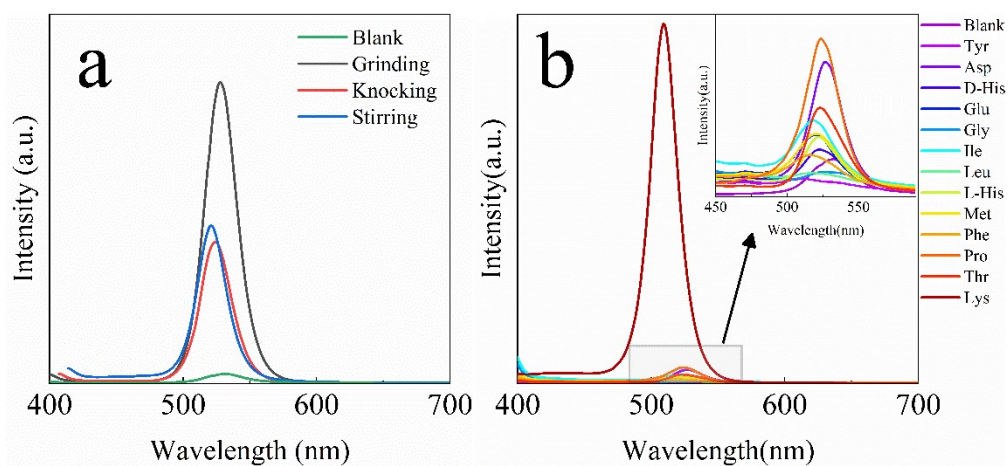


Figure S1. a) Photoluminescence spectra of Lys-PNCs obtained by three solid-phase synthesis and blank samples without L-lysine. c) Photoluminescence spectra of various amino acid-assisted synthetic samples (by Stirring) and blank sample.

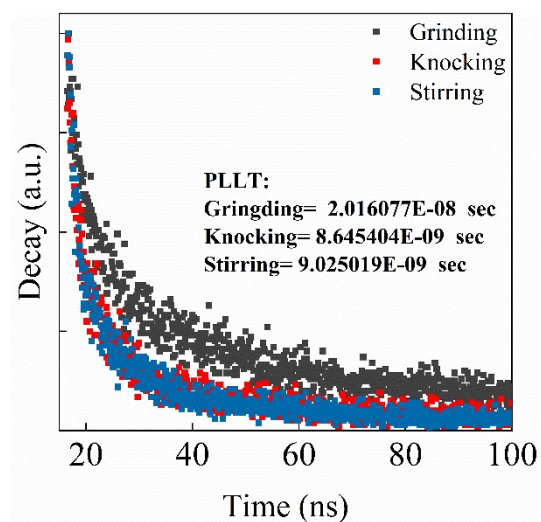


Figure S2. Photoluminescence lifetime of samples obtained by three solid phase synthesis methods (Calculated using 2 exponentials).

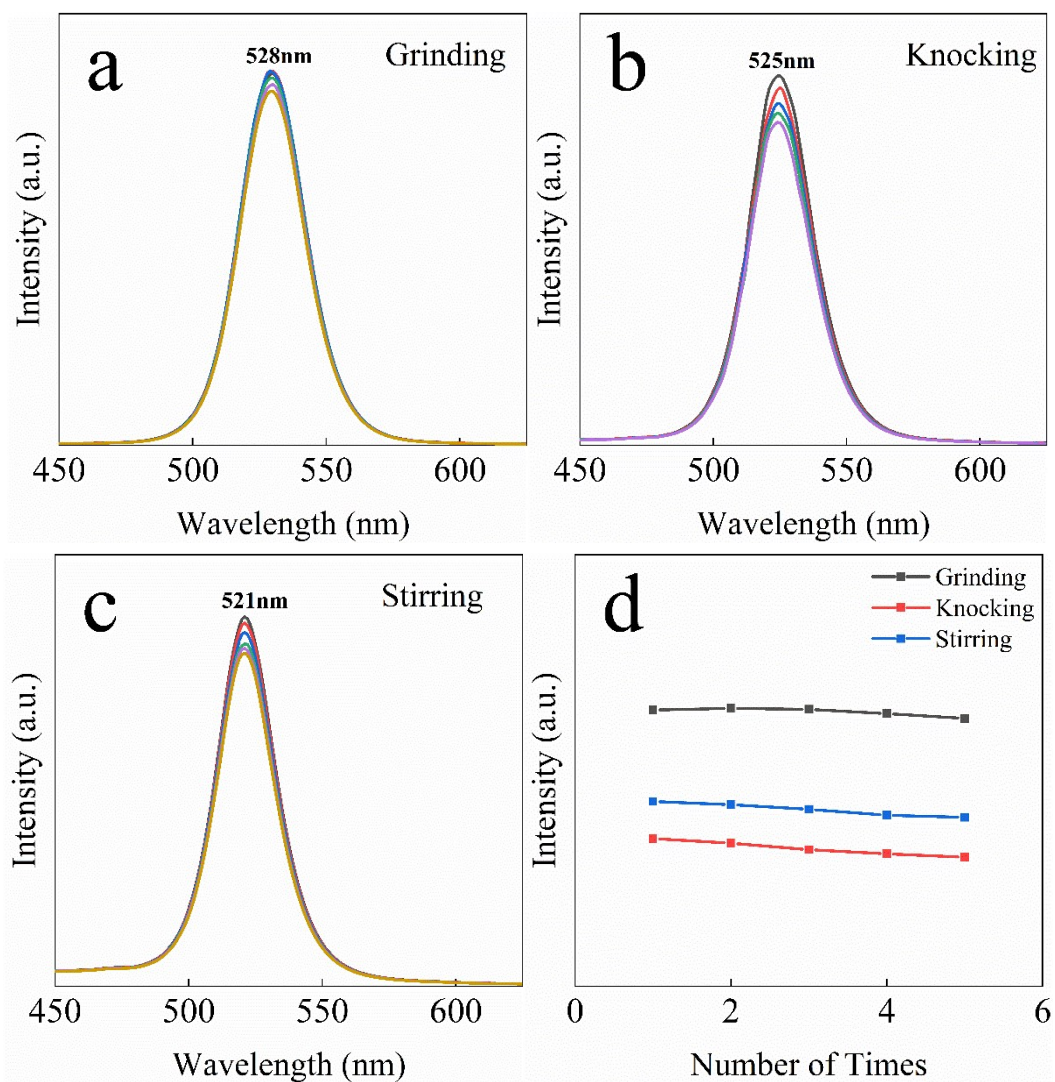


Figure S3. The photoluminescence spectra of samples obtained by three solid-phase synthesis methods were scanned five consecutive times under their maximum excitation.

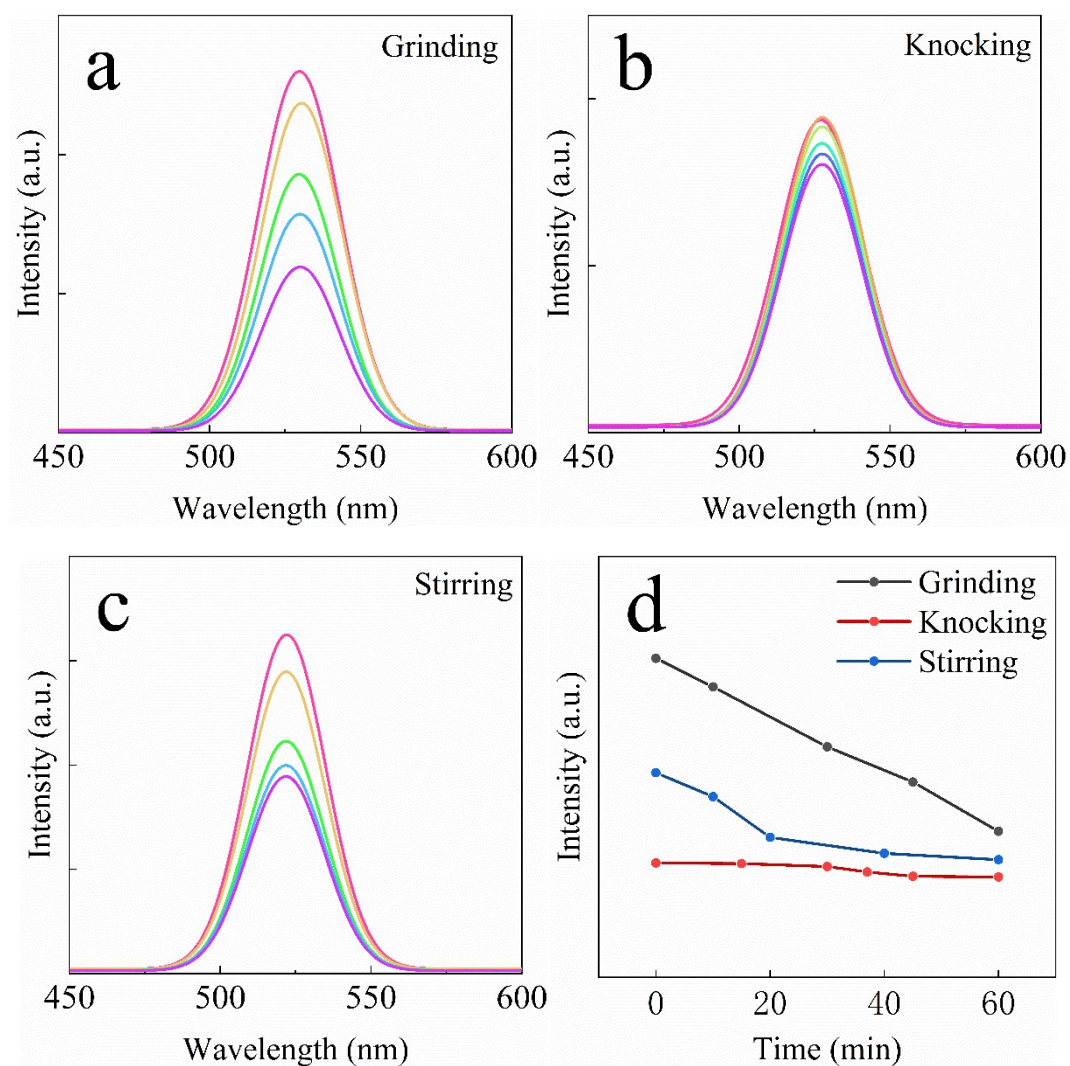


Figure S4. The stability of the samples obtained by three solid-phase synthesis methods directly exposed to the air at temperature of 37°C and the humidity of 51%.

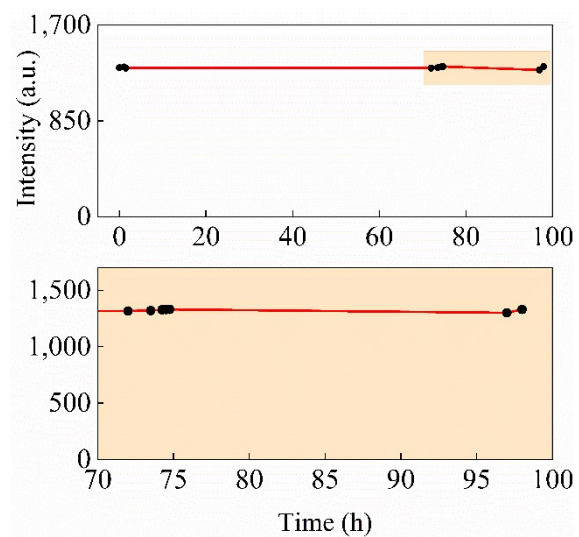


Figure S5. The stability of the sample obtained by Stirring when stored in the dark at 4°C.

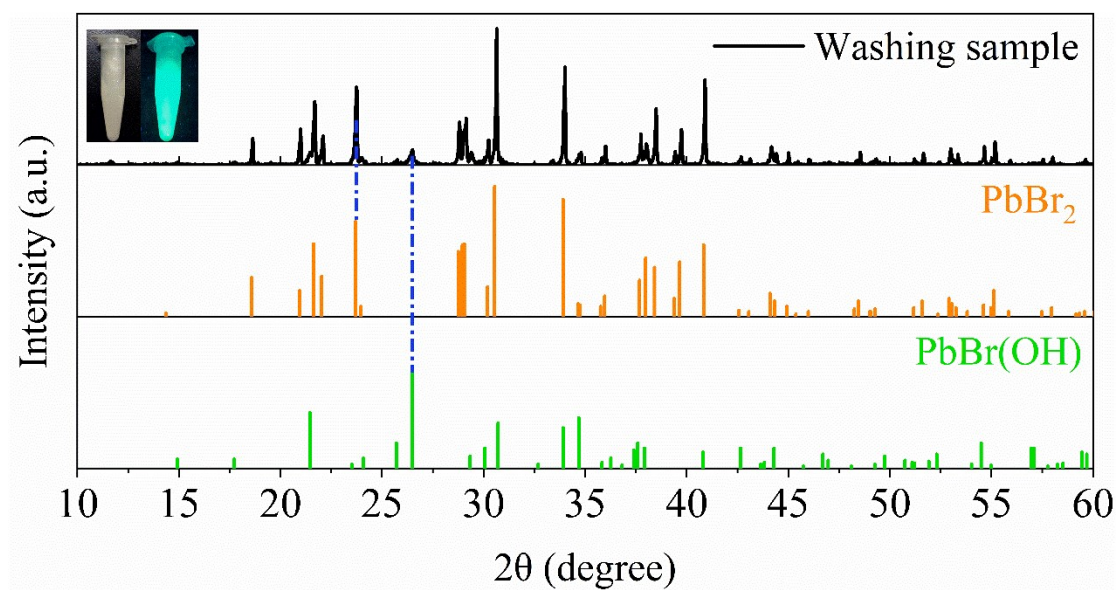


Figure S6. XRD of the sample washed three times with UP water. The illustrations are Lys-PNCs in water taken under daylight and 365 nm light.