

Supporting Information for

Self-Assembly and Photoactivation of Blue Luminescent CsPbBr₃ Mesocrystals

Synthesized at Ambient Temperature

Xiaoming Fu,^{ac} Chi Zhang,^a Zhiwei Peng,^b Yong Xia,^a Jianbing Zhang,^a Wei Luo,^a Rui Zhan,^a Honglang Li,^{*d} YuHuang Wang,^{*b} and Daoli Zhang^{*ab}

Contents

Fig S1. Optical properties of CsPbBr ₃ mesocrystals washed different cycle with acetone solvent.....	2
Fig S2. Temporal evolutions of emission spectrum, PLQY and position of PL peak before and after purification of CsPbBr ₃ mesocrystals.....	3

^a School of Optical and Electronic Information, Huazhong University of Science and Technology, 1037 Luoyu Road, Hongshan District, Wuhan City, Hubei Province, 430074, P. R. China. E-mail: zhang_daoli@hust.edu.cn

^b Department of Chemistry and Biochemistry, University of Maryland, 8051 Regent Drive, College Park, MD 20742, USA. E-mail: yhw@umd.edu

^c School of Physics, Communication and Electronics, Jiangxi Normal University, 99 Ziyang Avenues, Nanchang City, Jiangxi Province, 330022, P. R. China.

^d Institute of Acoustics, Chinese Academy of Sciences, 21 North 4th Ring Road, Haidian District, Beijing, 100190, P. R. China. E-mail: hl@mail.ioa.ac.cn

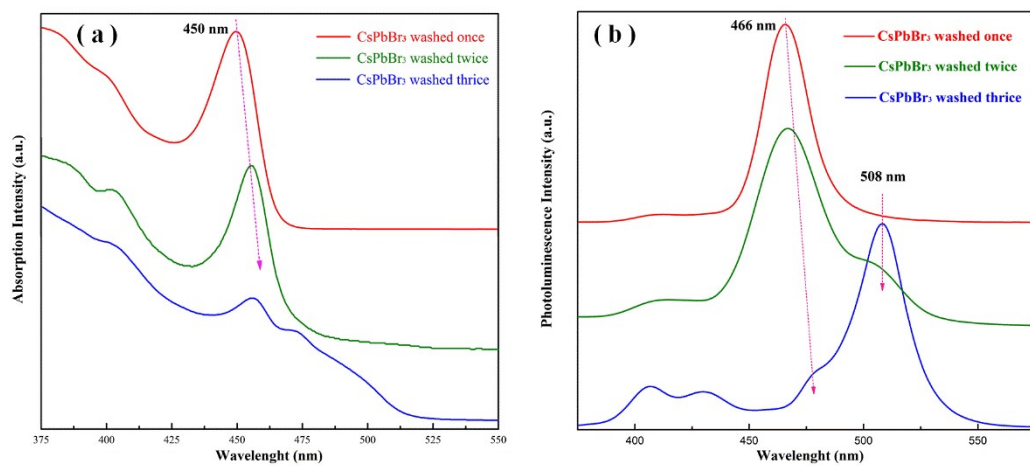


Fig S1. Optical properties of CsPbBr₃ mesocrystals washed different cycle with acetone solvent. (a) Absorbance curves. (b) PL emission spectrum.

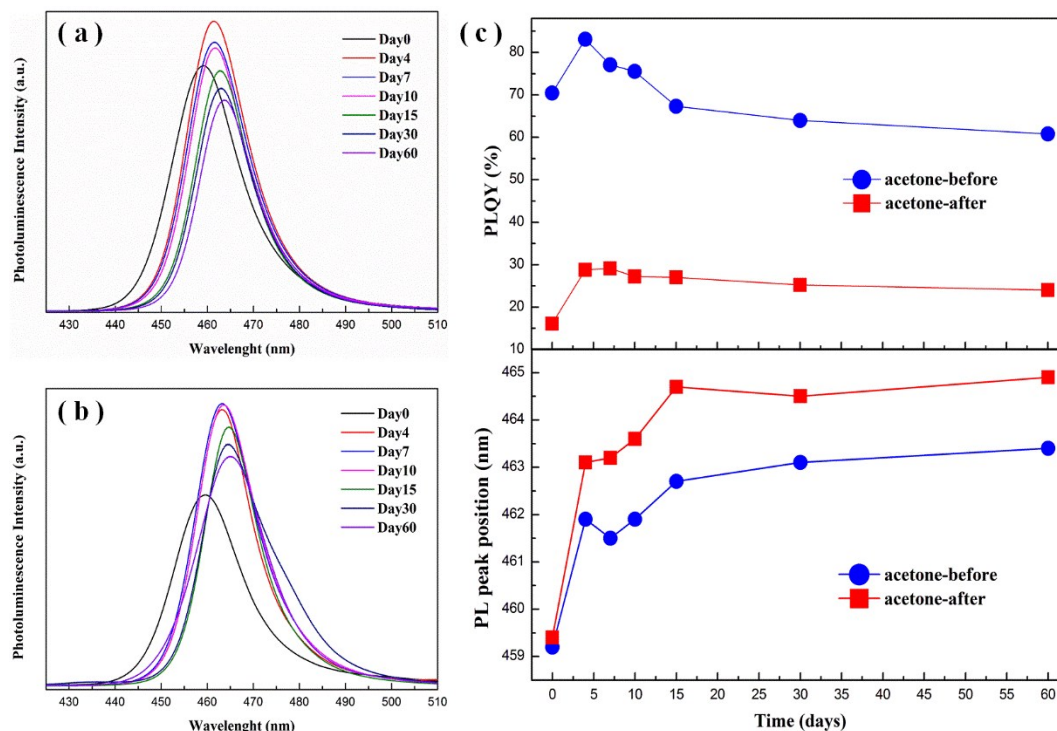


Fig S2. Temporal evolution of emission spectra of CsPbBr₃ mesocrystals stored in air for 60 days before (a) and after (b) purification by adding acetone. (c) The PLQY and position of PL peak as a function of time. The samples were exposed to room light at ambient temperature.