

Supporting Information

Hydroxyl Terminated Mesoporous Silica Assisted Dispersion of Ligand-Free CsPbBr₃/Cs₄PbBr₆ Nanocrystals in Polymer for Stable White LED

Mei Su,^{†, ‡, §} Bo Fan,[†] Haiyang Li,[†] Kai Wang^{*, §} and Zhongkuan Luo^{*, †}

[†]College of Chemistry and Environmental Engineering, Shenzhen University, Shenzhen 518060, P. R. China.

[‡]Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province, College of Optoelectronic Engineering, Shenzhen University, Shenzhen 518060, P. R. China.

[§]Southern University of Science and Technology, Shenzhen, 518055, P. R. China.

*Email: luozhongkuan@126.com, wangk@sustc.edu.com.

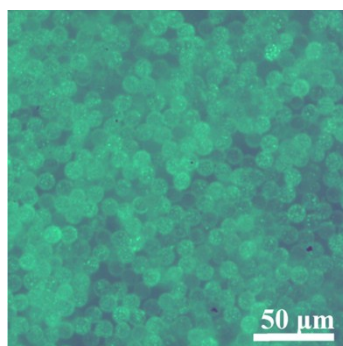


Figure S1. Optical microscope image of composite obtained in the presence of silica terminated with -OH wherein the solvent is extracted by a large amount of toluene under the illumination of UV light (365 nm).

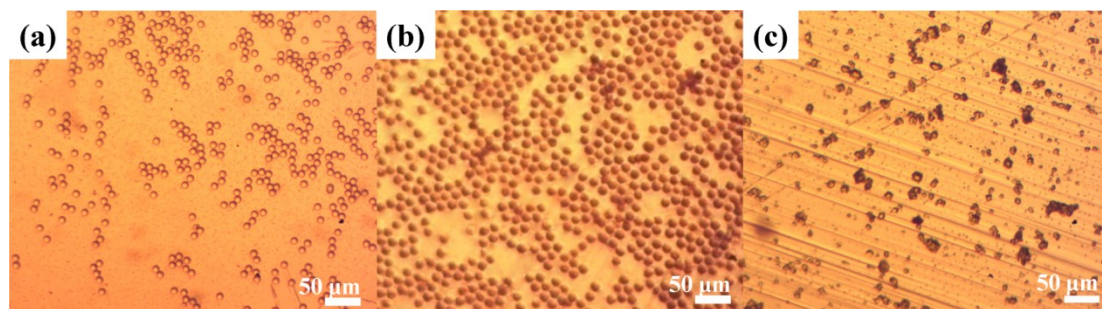


Figure S2. Optical microscope image of mesoporous silica before (a), after (b) the loading of composite materials, and that of exposed sample (c).

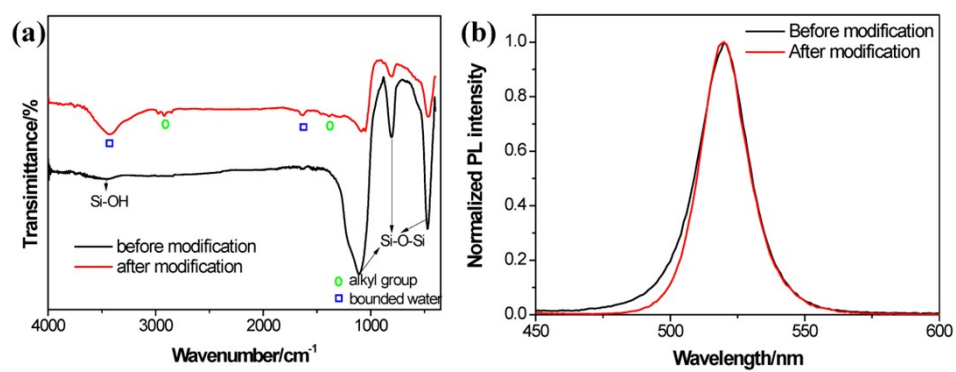


Figure S3. FTIR spectrum (a) and PL spectrum (b) of embedded composite before and after the modification with alkyl chain.