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Title: Photoluminescence and Self-Assembly of Cesium Lead Halide Perovskite Nanocrystals: Effects of Chain Length of Organic Amines and Reaction Temperature

Authors: Yi Yuan, Zheming Liu, Zhenyang Liu, Lan Peng, Yongjie Li, Aiwei Tang



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# Photoluminescence and Self-Assembly of Cesium Lead Halide Perovskite Nanocrystals: Effects of Chain Length of Organic Amines and Reaction Temperature

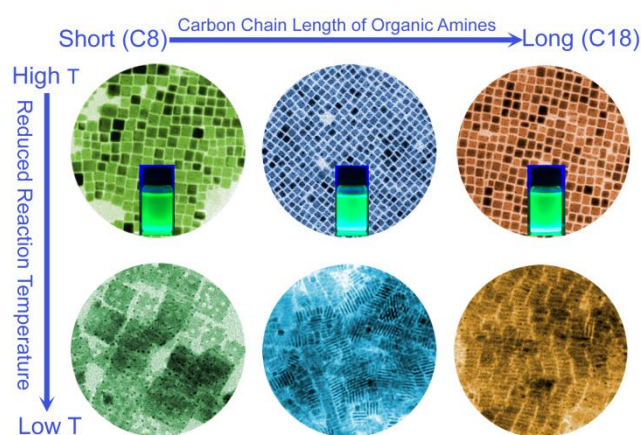
Yi Yuan, Zheming Liu, Zhenyang Liu, Lan Peng, Yongjie Li and Aiwei Tang\*

*Department of Chemistry, School of Science, Beijing JiaoTong University, Beijing, 100044, China.*

\*Corresponding authors at: No.3 Shangyuancun, Haidian District, Beijing JiaoTong University, Beijing 100044, China.

E-mail address: [awtang@bjtu.edu.cn](mailto:awtang@bjtu.edu.cn)

Graphical  
abstract:



## Highlights

- CsPbBr<sub>3</sub> perovskite nanocrystals have been synthesized in the presence of organic amines with different hydrocarbon length.
- The photoluminescence of the CsPbBr<sub>3</sub> nanocrystals is affected by the varying the carbon length of the organic amines.
- The lower reaction temperature and hydrocarbon chain length of the organic ligands play a significant role in the self-assembly of CsPbBr<sub>3</sub> nanocrystals.

## Abstract

All-inorganic halide perovskites have become one of the most prospective materials for lightening

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