

Author's Accepted Manuscript

High Efficiency Perovskite Light-Emitting Diodes of Ligand-Engineered Colloidal Formamidinium Lead Bromide Nanoparticles

Young-Hoon Kim, Geon-Hui Lee, Young-Tae Kim, Christoph Wolf, Hyung Joong Yun, Woosung Kwon, Chan Gyung Park, Tae-Woo Lee



PII: S2211-2855(17)30274-4
DOI: <http://dx.doi.org/10.1016/j.nanoen.2017.05.002>
Reference: NANOEN1943

To appear in: *Nano Energy*

Received date: 31 March 2017
Revised date: 29 April 2017
Accepted date: 1 May 2017

Cite this article as: Young-Hoon Kim, Geon-Hui Lee, Young-Tae Kim, Christoph Wolf, Hyung Joong Yun, Woosung Kwon, Chan Gyung Park and Tae-Woo Lee, High Efficiency Perovskite Light-Emitting Diodes of Ligand-Engineered Colloidal Formamidinium Lead Bromide Nanoparticles, *Nano Energy*, <http://dx.doi.org/10.1016/j.nanoen.2017.05.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain

High Efficiency Perovskite Light-Emitting Diodes of Ligand-Engineered Colloidal Formamidinium Lead Bromide Nanoparticles

Young-Hoon Kim^{a,b1}, Geon-Hui Lee^{d,1}, Young-Tae Kim^d, Christoph Wolf^d, Hyung Joong Yun^c, Woosung Kwon^f, Chan Gyung Park^d, Tae-Woo Lee^{a,b,c*}

^aResearch Institute of Advanced Materials, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

^bBK21 PLUS SNU Materials Division for Educating Creative Global Leaders, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

^cDepartment of Materials Science and Engineering, Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea

^dDepartment of Materials Science and Engineering, Pohang University of Science and Technology (POSTECH), Pohang, Gyungbuk, 790-784, Republic of Korea

^eAdvance Nano Research Group, Korea Basic Science Institute (KBSI), 169-148 Gwahak-ro, Daejeon 34133, Republic of Korea

^fDepartment of Chemical and Biological Engineering, Sookmyung Women's University, 100 Cheongpa-ro 47-gil, Yongsan-gu, Seoul 04310, Republic of Korea

twlees@snu.ac.kr

taewlees@gmail.com

*Corresponding authors.

¹ These authors contributed equally to this work.

Download English Version:

<https://daneshyari.com/en/article/5451972>

Download Persian Version:

<https://daneshyari.com/article/5451972>

[Daneshyari.com](https://daneshyari.com)