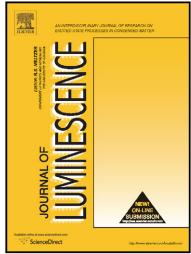
Author's Accepted Manuscript

Solvent effect on device performances of small molecule based solution processed blue phosphorescent organic light-emitting diodes using aromatic and alcohol solvents

Kyoung Soo Yook, Jun Yeob Lee



www.elsevier.com/locate/jlumin

PII: S0022-2313(13)00682-0

DOI: http://dx.doi.org/10.1016/j.jlumin.2013.10.038

Reference: LUMIN12270

To appear in: Journal of Luminescence

Received date: 2 July 2013

Revised date: 27 September 2013 Accepted date: 16 October 2013

Cite this article as: Kyoung Soo Yook, Jun Yeob Lee, Solvent effect on device performances of small molecule based solution processed blue phosphorescent organic light-emitting diodes using aromatic and alcohol solvents, *Journal of Luminescence*, http://dx.doi.org/10.1016/j.jlumin.2013.10.038

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.

ACCEPTED MANUSCRIPT

Solvent effect on device performances of small molecule based solution processed blue phosphorescent organic light-emitting diodes using aromatic and alcohol solvents

Kyoung Soo Yook, Jun Yeob Lee^{a)}

Department of Polymer Science and Engineering, Dankook University

Jukjeon-dong, Suji-gu, Yongin-si, Gyeonggi-do, 448-701, Korea

Abstract

Device performances of solution processed blue phosphorescent organic light-emitting diodes were studied using a high triplet energy host material soluble both in alcohol and aromatic solvents. 6-(Carbazole-9-yl)benzofuro[2,3-b]pyridine was used as the alcohol and aromatic solvent compatible triplet host material and the effect of solvent on the device performances of blue phosphorescent organic light-emitting diodes was investigated. Toluene and 2-propanol were effective as the solvent materials for the host and high external quantum efficiencies of 11.0% and 11.1% were achieved in the blue devices processed from toluene and 2-propanol, respectively.

Download English Version:

https://daneshyari.com/en/article/5400379

Download Persian Version:

https://daneshyari.com/article/5400379

<u>Daneshyari.com</u>