

Accepted Manuscript

Indoor-type photovoltaics with organic solar cells through optimal design

Premkumar Vincent, Sang-Chul Shin, Ji Soo Goo, Young-Jun You, Boram Cho, Suwoong Lee, Dong-Wook Lee, Se Ra Kwon, Kwun-Bum Chung, Jae-Joon Lee, Jin-Hyuk Bae, Jae Won Shim, Hyeok Kim



PII: S0143-7208(18)30672-7

DOI: [10.1016/j.dyepig.2018.06.025](https://doi.org/10.1016/j.dyepig.2018.06.025)

Reference: DYPI 6830

To appear in: *Dyes and Pigments*

Received Date: 26 March 2018

Revised Date: 29 May 2018

Accepted Date: 16 June 2018

Please cite this article as: Vincent P, Shin S-C, Goo JS, You Y-J, Cho B, Lee S, Lee D-W, Kwon SR, Chung K-B, Lee J-J, Bae J-H, Shim JW, Kim H, Indoor-type photovoltaics with organic solar cells through optimal design, *Dyes and Pigments* (2018), doi: 10.1016/j.dyepig.2018.06.025.

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 proof before it is published in its final 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.

Indoor-type Photovoltaics with Organic Solar Cells through Optimal Design

Premkumar Vincent^{1,+}, Sang-Chul Shin^{2,+}, Ji Soo Goo², Young-Jun You², Boram Cho³,
Suwoong Lee³, Dong-Wook Lee³, Se Ra Kwon⁴, Kwun-Bum Chung⁴, Jae-Joon Lee⁵, Jin-
Hyuk Bae^{1*}, Jae Won Shim^{2*}, and Hyeok Kim^{6*}

¹School of Electronics Engineering, Kyungpook National University, 80 Daehakro, Bukgu,
Daegu, 702-701, Republic of Korea

²Research Center for Photoenergy Harvesting & Conversion Technology (*PHCT*), Division of
Electronics and Electrical Engineering, Dongguk University, Seoul 04620, Republic of Korea

³Korea Institute of Industrial Technology (KITECH), 320 Techno-sunhwanro, Yuga-myeon,
Dalseong-gun, Daegu 42990, Republic of Korea

⁴Division of Physics and Semiconductor Science, Dongguk University, Seoul 100715,
Republic of Korea

⁵Research Center for Photoenergy Harvesting & Conversion Technology (*PHCT*),
Department of Energy & Materials Engineering, Dongguk University, Seoul, 04620,
Republic of Korea

⁶Department of Electrical Engineering, ERI, Gyeongsang National University, 501
Jinjudaero, Jinju, Gyeongnam 52828, Republic of Korea Email: jhbae@ee.knu.ac.kr,
jwshim@dongguk.edu, hyeok.kim@gnu.ac.kr

+ These authors equally contributed to this work

ABSTRACT:

Indoor solar cells are an attractive option to install in buildings to harvest the energy emitted by indoor lighting. They can be implemented as a stand-alone grid, or as part of an integrated

Download English Version:

<https://daneshyari.com/en/article/6597613>

Download Persian Version:

<https://daneshyari.com/article/6597613>

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