Accepted Manuscript

Title: Visualizing nanoscale phase morphology for understanding photovoltaic performance of PTB7: PC71BM solar cell

Authors: Thidarat Supasai, Vittaya Amornkitbamrung, Chanchana Thanachayanont, I-Ming Tang, Thana Sutthibutpong, Nopporn Rujisamphan

PII: S0169-4332(17)31560-X

DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2017.05.205

Reference: APSUSC 36140

To appear in: APSUSC

Received date: 30-4-2017 Revised date: 19-5-2017 Accepted date: 24-5-2017

Please cite this article as: Thidarat Supasai, Vittaya Amornkitbamrung, Chanchana Thanachayanont, I-Ming Tang, Thana Sutthibutpong, Nopporn Rujisamphan, Visualizing nanoscale phase morphology for understanding photovoltaic performance of PTB7: PC71BM solar cell, Applied Surface Sciencehttp://dx.doi.org/10.1016/j.apsusc.2017.05.205

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.



Visualizing nanoscale phase morphology for understanding photovoltaic performance of PTB7:PC71BM solar cell

Thidarat Supasai¹, Vittaya Amornkitbamrung^{2,3}, Chanchana Thanachayanont⁴, I-Ming Tang¹, Thana Sutthibutpong⁵, Nopporn Rujisamphan^{6,7*}

- ¹ Department of Materials Science, Faculty of Science, Kasetsart University, 10900, Bangkok, Thailand
- ² Integrated Nanotechnology Research Center, Department of Physics, Faculty of Science, Khon Kaen University, Khon Kaen 40002, Thailand
- ³ Thailand Center of Excellence in Physics, CHE, Ministry of Education, Bangkok 10400, Thailand
- ⁴ The National Metal and Materials Technology Center Thailand Science Park, Pathumthani, 12120, Thailand
- ⁵ Department of Physics, Faculty of Science, King Mongkut's University of Technology Thonburi, 10140, Bangkok, Thailand
- ⁶ Nanoscience and Nanotechnology Graduate Program, Faculty of Science, King Mongkut's University of Technology Thonburi, 10140, Bangkok, Thailand
- ⁷ Theoretical and Computational Science Center (TaCS), Faculty of Science, King Mongkut's University of Technology Thonburi, Bangkok 10140 Thailand

KEYWORDS: Organic solar cells, PTB7:PC71BM, nano-scale blend, electron energy loss, energy-filtered TEM

Graphical abstract

Download English Version:

https://daneshyari.com/en/article/5347568

Download Persian Version:

https://daneshyari.com/article/5347568

<u>Daneshyari.com</u>