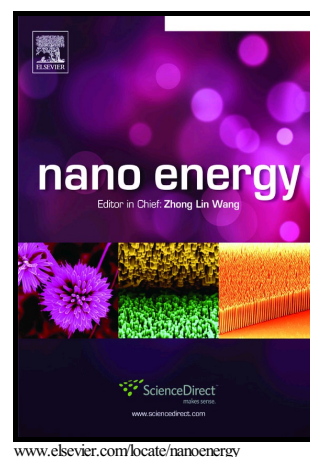


Author's Accepted Manuscript

Transparent and Haze Wood Composites for Highly Efficient Broadband Light Management in Solar Cells

Mingwei Zhu, Tian Li, Chelsea S. Davis, Yonggang Yao, Jiaqi Dai, Yanbin Wang, Feras AlQatari, Jeffrey W. Gilman, Liangbing Hu



PII: S2211-2855(16)30141-0
DOI: <http://dx.doi.org/10.1016/j.nanoen.2016.05.020>
Reference: NANOEN1285

To appear in: *Nano Energy*

Received date: 10 February 2016
Revised date: 9 May 2016
Accepted date: 12 May 2016

Cite this article as: Mingwei Zhu, Tian Li, Chelsea S. Davis, Yonggang Yao, Jiaqi Dai, Yanbin Wang, Feras AlQatari, Jeffrey W. Gilman and Liangbing Hu, Transparent and Haze Wood Composites for Highly Efficient Broadband Light Management in Solar Cells, *Nano Energy* <http://dx.doi.org/10.1016/j.nanoen.2016.05.020>

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

Transparent and Haze Wood Composites for Highly Efficient Broadband Light Management in Solar Cells

Mingwei Zhu,^{1(a)} Tian Li,^{1(a)} Chelsea S. Davis,² Yonggang Yao,¹ Jiaqi Dai,¹ Yanbin Wang,¹
Feras AlQatari,¹ Jeffrey W. Gilman,² Liangbing Hu^{1,*}

¹Department of Materials Science and Engineering, University of Maryland, College Park,
Maryland, 20742, USA

²Material Measurement Laboratory, National Institute of Standards and Technology (NIST),
Gaithersburg, Maryland, 20899, USA

(a) Equally contributed

Email: binghu@umd.edu

Abstract

Highly efficient broadband light management to enhance the light trapping inside active layer is critical for many energy conversion devices such as thin film solar cells and photoelectrochemical cells. In this work, we demonstrate highly transparent, mesoporous wood

Download English Version:

<https://daneshyari.com/en/article/7953560>

Download Persian Version:

<https://daneshyari.com/article/7953560>

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