

Accepted Manuscript

Full Length Article

Using the light scattering properties of multi-textured AZO films on inverted hemisphere textured glass surface morphologies to improve the efficiency of silicon thin film solar cells

Shahzada Qamar Hussain, Anh Huy Tuan Le, Kumar Mallem, Hyeongsik Park, Minkyu Ju, Yongjun Kim, Jaehyun Cho, Jinjoo Park, Youngkuk Kim, Junsin Yi

PII: S0169-4332(18)30829-8
DOI: <https://doi.org/10.1016/j.apsusc.2018.03.143>
Reference: APSUSC 38891

To appear in: *Applied Surface Science*

Received Date: 30 November 2017

Revised Date: 19 March 2018

Accepted Date: 20 March 2018

Please cite this article as: S. Qamar Hussain, A. Huy Tuan Le, K. Mallem, H. Park, M. Ju, Y. Kim, J. Cho, J. Park, Y. Kim, J. Yi, Using the light scattering properties of multi-textured AZO films on inverted hemisphere textured glass surface morphologies to improve the efficiency of silicon thin film solar cells, *Applied Surface Science* (2018), doi: <https://doi.org/10.1016/j.apsusc.2018.03.143>

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.



**Using the light scattering properties of multi-textured AZO films on
inverted hemisphere textured glass surface morphologies to improve
the efficiency of silicon thin film solar cells**

Shahzada Qamar Hussain^{a,c}, Anh Huy Tuan Le^b, Kumar Mallem^b, Hyeongsik Park^b, Minkyu Ju^b,
Yongjun Kim^b, Jaehyun Cho^b, Jinjoo Park^b, Youngkuk Kim^{b*}, Junsin Yi^{b*}

^aDepartment of Energy Science, Sungkyunkwan University, Suwon, 440-746, Republic of Korea

^bCollege of Information and Communication Engineering, Sungkyunkwan University,
Suwon, 440-746, Republic of Korea

^cDepartment of Physics, COMSATS Institute of Information and Technology,
Lahore, 54000, Pakistan.

***Corresponding Author:** Tel: +82-31-290-7139; Fax: +82-31-290-7159

Email: junsin@skku.edu (J. Yi), bri3tain@skku.edu (Y. Kim)

300 Cheoncheon-dong, Jangan-gu, Suwon, 440-746, Republic of Korea.

Download English Version:

<https://daneshyari.com/en/article/7834303>

Download Persian Version:

<https://daneshyari.com/article/7834303>

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