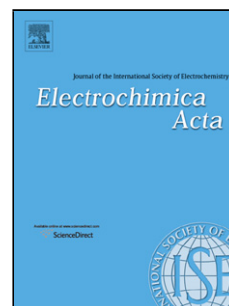


Accepted Manuscript

Title: Biomass converted carbon quantum dots for all-weather solar cells

Authors: Yuanyuan Meng, Yue Zhang, Weiyin Sun, Min Wang, Benlin He, Haiyan Chen, Qunwei Tang



PII: S0013-4686(17)32208-9
DOI: <https://doi.org/10.1016/j.electacta.2017.10.086>
Reference: EA 30472

To appear in: *Electrochimica Acta*

Received date: 27-6-2017
Revised date: 7-10-2017
Accepted date: 13-10-2017

Please cite this article as: Yuanyuan Meng, Yue Zhang, Weiyin Sun, Min Wang, Benlin He, Haiyan Chen, Qunwei Tang, Biomass converted carbon quantum dots for all-weather solar cells, *Electrochimica Acta* <https://doi.org/10.1016/j.electacta.2017.10.086>

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.

Biomass converted carbon quantum dots for all-weather solar cells

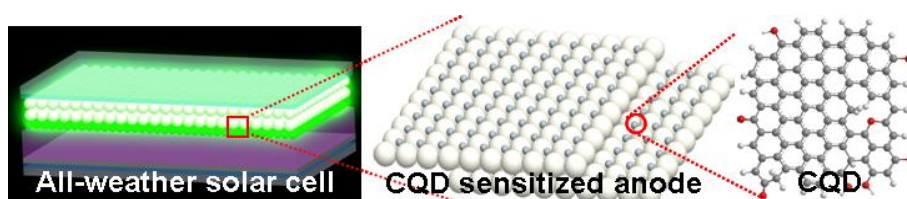
Yuanyuan Meng, Yue Zhang, Weiyin Sun, Min Wang, Benlin He*, Haiyan Chen, Qunwei Tang*

School of Materials Science and Engineering, Ocean University of China, Qingdao 266100, P.R.

China;

*E-mail address: blhe@ouc.edu.cn; tangqunwei@ouc.edu.cn; Tel: +86 532 66782533.

Graphical abstract



Highlights

- CQDs are converted from soybean powders by a hydrothermal method.
- The biomass converted CQDs are used for all-weather DSSCs.
- The so-called all-weather DSSCs can generate electricity in the daytime and dark.
- A dark efficiency as high as 7.97% is determined on the all-weather photovoltaics.
- The launched solar cell extend our knowledge of advanced all-weather solar cells.

Download English Version:

<https://daneshyari.com/en/article/6605331>

Download Persian Version:

<https://daneshyari.com/article/6605331>

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