

# Accepted Manuscript

Study on a stretchable, fiber-shaped, and TiO<sub>2</sub> nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method

Guicheng Liu, Hui Wang, Manxiang Wang, Wenbing Liu, Ryanda Enggar Anugrah Ardhi, Dechun Zou, Joong Kee Lee

PII: S0013-4686(18)30366-9

DOI: [10.1016/j.electacta.2018.02.075](https://doi.org/10.1016/j.electacta.2018.02.075)

Reference: EA 31270

To appear in: *Electrochimica Acta*

Received Date: 2 November 2017

Revised Date: 6 February 2018

Accepted Date: 13 February 2018

Please cite this article as: G. Liu, H. Wang, M. Wang, W. Liu, R.E. Anugrah Ardhi, D. Zou, J.K. Lee, Study on a stretchable, fiber-shaped, and TiO<sub>2</sub> nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method, *Electrochimica Acta* (2018), doi: 10.1016/j.electacta.2018.02.075.

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.



# Study on a stretchable, fiber-shaped, and TiO<sub>2</sub> nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method

Guicheng Liu <sup>a,1\*</sup>, Hui Wang <sup>b,1</sup>, Manxiang Wang <sup>a,c,1</sup>, Wenbing Liu <sup>d</sup>, Ryanda Enggar Anugrah Ardhi <sup>a</sup>, Dechun Zou <sup>e\*</sup>, Joong Kee Lee <sup>a,f\*</sup>

<sup>a</sup> Center for Energy Convergence Research, Green City Research Institute, Korea Institute of Science and Technology (KIST), Hwarang-ro 14-gil 5, Seongbuk-gu, Seoul 02792, Republic of Korea

<sup>b</sup> MOE Laboratory of Bioinorganic and Synthetic Chemistry, The Key Lab of Low-Carbon Chemistry & Energy Conservation of Guangdong Province, School of Chemistry, Sun Yat-sen University, Guangzhou 510275, China

<sup>c</sup> College of Environmental Science and Engineering, Beijing Forestry University, Beijing 100083, China

<sup>d</sup> Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan 430074, China

<sup>e</sup> College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

<sup>f</sup> Energy and Environmental Engineering, Korea University of Science and Technology, Daejeon 34113, Republic of Korea.

<sup>1</sup> Dr. Guicheng Liu, Hui Wang and Manxiang Wang contributed equally.

Corresponding authors: log67@163.com, D15604@kist.re.kr (Liu); dczou@pku.edu.cn (Zou); leejk@kist.re.kr (Lee).

Tel/ Fax: +82-2-958-5257; +86-10-6257-9799.

Download English Version:

<https://daneshyari.com/en/article/6603890>

Download Persian Version:

<https://daneshyari.com/article/6603890>

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