

## Accepted Manuscript

Title: Boron-doped carbon nanotubes with uniform boron doping and tunable dopant functionalities as an efficient electrocatalyst for dopamine oxidation reaction

Authors: Ta-Jen Li, Min-Hsin Yeh, Wei-Hung Chiang, Yan-Sheng Li, Guan-Lin Chen, Yow-An Leu, Ta-Chang Tien, Shen-Chuan Lo, Lu-Yin Lin, Jiang-Jen Lin, Kuo-Chuan Ho



PII: S0925-4005(17)30535-X  
DOI: <http://dx.doi.org/doi:10.1016/j.snb.2017.03.118>  
Reference: SNB 22030

To appear in: *Sensors and Actuators B*

Received date: 17-11-2016  
Revised date: 3-3-2017  
Accepted date: 24-3-2017

Please cite this article as: Ta-Jen Li, Min-Hsin Yeh, Wei-Hung Chiang, Yan-Sheng Li, Guan-Lin Chen, Yow-An Leu, Ta-Chang Tien, Shen-Chuan Lo, Lu-Yin Lin, Jiang-Jen Lin, Kuo-Chuan Ho, Boron-doped carbon nanotubes with uniform boron doping and tunable dopant functionalities as an efficient electrocatalyst for dopamine oxidation reaction, *Sensors and Actuators B: Chemical* <http://dx.doi.org/10.1016/j.snb.2017.03.118>

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.

# Boron-doped carbon nanotubes with uniform boron doping and tunable dopant functionalities as an efficient electrocatalyst for dopamine oxidation reaction

*Ta-Jen Li<sup>a†</sup>, Min-Hsin Yeh<sup>a,b†</sup>, Wei-Hung Chiang<sup>b\*</sup>, Yan-Sheng Li<sup>b</sup>, Guan-Lin Chen<sup>b</sup>, Yow-An Leu<sup>a,c</sup>,*

*Ta-Chang Tien<sup>d</sup>, Shen-Chuan Lo<sup>d</sup>, Lu-Yin Lin<sup>e</sup>, Jiang-Jen Lin<sup>c</sup>, and Kuo-Chuan Ho<sup>a,c\*</sup>*

<sup>a</sup> Department of Chemical Engineering, National Taiwan University, Taipei 10617, Taiwan

<sup>b</sup> Department of Chemical Engineering, National Taiwan University of Science and Technology, Taipei 10607, Taiwan

<sup>c</sup> Institute of Polymer Science and Engineering, National Taiwan University, Taipei 10617, Taiwan

<sup>d</sup> Material and Chemical Research Laboratories, Industrial Technology Research Institute, Hsinchu 30011, Taiwan

<sup>e</sup> Department of Chemical Engineering and Biotechnology, National Taipei University of Technology, Taipei 10608, Taiwan

<sup>†</sup> These authors contributed equally to this work.

\*Corresponding Authors

Tel.: +886-2-2737-6647; Fax: +886-2-2737-6644; E-mail: whchiang@mail.ntust.edu.tw

(Dr. W. H. Chiang)

Tel.: +886-2-2366-0739; Fax: +886-2-2362-3040; E-mail: kcho@ntu.edu.tw

(Dr. K. C. Ho)

Download English Version:

<https://daneshyari.com/en/article/5009182>

Download Persian Version:

<https://daneshyari.com/article/5009182>

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