

## Author's Accepted Manuscript

Perylenetetracarboxylic Acid and Carbon Quantum Dots Assembled Synergistic Electrochemiluminescence Nanomaterial for Ultra-sensitive Carcinoembryonic Antigen Detection

Lan-lan Xu, Wei Zhang, Lei Shang, Rong-na Ma, Li-ping Jia, Wen-li Jia, Huai-sheng Wang, Li Niu



PII: S0956-5663(17)30702-9  
DOI: <https://doi.org/10.1016/j.bios.2017.10.035>  
Reference: BIOS10060

To appear in: *Biosensors and Bioelectronic*

Received date: 16 September 2017  
Revised date: 13 October 2017  
Accepted date: 16 October 2017

Cite this article as: Lan-lan Xu, Wei Zhang, Lei Shang, Rong-na Ma, Li-ping Jia, Wen-li Jia, Huai-sheng Wang and Li Niu, Perylenetetracarboxylic Acid and Carbon Quantum Dots Assembled Synergistic Electrochemiluminescence Nanomaterial for Ultra-sensitive Carcinoembryonic Antigen Detection, *Biosensors and Bioelectronic*, <https://doi.org/10.1016/j.bios.2017.10.035>

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.

**Perylenetetracarboxylic Acid and Carbon Quantum Dots  
Assembled Synergistic Electrochemiluminescence Nanomaterial  
for Ultra-sensitive Carcinoembryonic Antigen Detection**

Lan-lan Xu<sup>a</sup>, Wei Zhang<sup>a,\*</sup>, Lei Shang<sup>a</sup>, Rong-na Ma<sup>a</sup>, Li-ping Jia<sup>a</sup>, Wen-li Jia<sup>a</sup>,  
Huai-sheng Wang<sup>a,\*</sup> and Li Niu<sup>b</sup>

<sup>a</sup>Department of Chemistry, Liaocheng University, Liaocheng, Shandong, 252059,  
PR.China

<sup>b</sup>State Key Laboratory of Electroanalytical Chemistry, c/o Engineering Laboratory for  
Modern Analytical Techniques, Changchun Institute of Applied Chemistry, Chinese  
Academy of Sciences, Renmin St.5625, Changchun 130022, P.R. China

**Corresponding Authors' Information:**

**\*Email: weizhang@lcu.edu.cn**

**\*Email: hswang@lcu.edu.cn**

Download English Version:

<https://daneshyari.com/en/article/7229793>

Download Persian Version:

<https://daneshyari.com/article/7229793>

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