## Accepted Manuscript

Title: Nitrogen-incorporated ultrananocrystalline diamond/multilayer graphene composite carbon films: Synthesis and electrochemical performances

Authors: Xiaolan Peng, Wen Yuan, Jiaxiu Zou, Bing Wang,

Wenyuan Hu, Ying Xiong

PII: S0013-4686(17)31734-6

DOI: http://dx.doi.org/10.1016/j.electacta.2017.08.093

Reference: EA 30097

To appear in: Electrochimica Acta

Received date: 16-2-2017 Revised date: 18-6-2017 Accepted date: 14-8-2017

Please cite this article as: Xiaolan Peng, Wen Yuan, Jiaxiu Zou, Bing Wang, Wenyuan Hu, Ying Xiong, Nitrogen-incorporated ultrananocrystalline diamond/multilayer graphene composite carbon films: Synthesis and electrochemical performances, Electrochimica Actahttp://dx.doi.org/10.1016/j.electacta.2017.08.093

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.



## ACCEPTED MANUSCRIPT

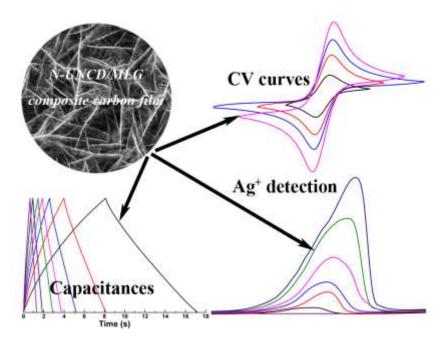
# Nitrogen-incorporated ultrananocrystalline diamond/multilayer graphene composite carbon films: Synthesis and electrochemical performances

Xiaolan Peng $^{a,b}$ , Wen Yuan $^{a,b}$ , Jiaxiu Zou $^{a,b}$ , Bing Wang $^{b,*}$ , Wenyuan Hu $^b$ , and Ying Xiong $^{a,*}$ 

<sup>a</sup> State Key Laboratory Cultivation Base for Nonmetal Composites and Functional Materials,
Southwest University of Science & Technology, Mianyang 621010, P. R. China
<sup>b</sup> School of Materials Science & Engineering, Southwest University of Science & Technology,

Mianyang 621010, P. R. China

#### **Graphical abstract**



## **Highlights**

◆ A novel N-UNCD/MLG composite carbon film was deposited using diethylamine as the sole carbon and nitrogen sources.

#### Download English Version:

## https://daneshyari.com/en/article/6605397

Download Persian Version:

https://daneshyari.com/article/6605397

<u>Daneshyari.com</u>