

Accepted Manuscript

Title: Fabrication of graphene sheets/polyaniline nanofibers composite for enhanced supercapacitor properties

Authors: Li Tang, Zhaokun Yang, Fang Duan, Mingqing Chen

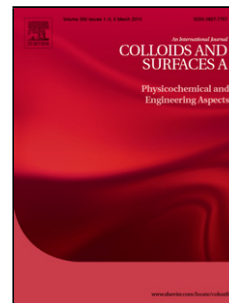
PII: S0927-7757(17)30119-X
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfa.2017.01.083>
Reference: COLSUA 21347

To appear in: *Colloids and Surfaces A: Physicochem. Eng. Aspects*

Received date: 31-10-2016
Revised date: 20-1-2017
Accepted date: 26-1-2017

Please cite this article as: Li Tang, Zhaokun Yang, Fang Duan, Mingqing Chen, Fabrication of graphene sheets/polyaniline nanofibers composite for enhanced supercapacitor properties, *Colloids and Surfaces A: Physicochemical and Engineering Aspects* <http://dx.doi.org/10.1016/j.colsurfa.2017.01.083>

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.



Highlighted Revised Manuscript

Fabrication of graphene sheets/polyaniline nanofibers composite for enhanced supercapacitor properties

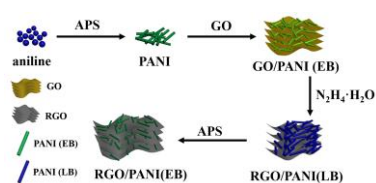
Li Tang^{1,2}, zhaokun Yang¹, Fang Duan¹, Mingqing Chen^{1*}

¹The Key Laboratory of Food Colloids and Biotechnology Ministry of Education,

School of Chemical and Material Engineering, Jiangnan University, Wuxi 214122, China

²Wuxi Tourism and Commerce Branch of Jiangsu Union Technical Institute, Wuxi 214035, China

Graphical abstract



Highlights

- RGO/PANI composite exhibits excellent capacitive performance and good cycling stability.
- The high electrochemical performances were attributed to increasing active sites for the deposition of PANI nanofibers provided by large surface areas of RGO sheets and the synergistic effect between RGO and PANI nanofibers, shortening the ion diffusion paths.
- RGO/PANI composite is a quite promising high power supercapacitor material.

Download English Version:

<https://daneshyari.com/en/article/4982123>

Download Persian Version:

<https://daneshyari.com/article/4982123>

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