

Accepted Manuscript

A novel 3D architecture designed for high performance pseudocapacitor

Rui Mi, Zhibing Fu, Shaomin Li, XiChuan Liu, Hao Liu, Jun Mei, Chaoyang Wang

PII: S0925-8388(17)30411-5

DOI: [10.1016/j.jallcom.2017.01.357](https://doi.org/10.1016/j.jallcom.2017.01.357)

Reference: JALCOM 40724

To appear in: *Journal of Alloys and Compounds*

Received Date: 19 December 2016

Revised Date: 29 January 2017

Accepted Date: 31 January 2017

Please cite this article as: R. Mi, Z. Fu, S. Li, X. Liu, H. Liu, J. Mei, C. Wang, A novel 3D architecture designed for high performance pseudocapacitor, *Journal of Alloys and Compounds* (2017), doi: 10.1016/j.jallcom.2017.01.357.

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.



A novel 3D architecture designed for high performance pseudocapacitor

RuiMi ^{a,b}, Zhibing Fu ^a, Shaomin Li ^b, XiChuan Liu ^{a,b}, Hao Liu ^{b1}, Jun Mei ^b, Chaoyang Wang ^{a2}

a, Research Center of Laser Fusion, China Academy of Engineering Physics,
Mianyang, 621900, China

b, Chengdu Green Energy and Green Manufacturing Technology R&D Centre,
Chengdu, 610207, China

Keyword

Cobalt oxide, Nitrogen doped carbon nanotubes, Pseudocapacitor

Abstract

Our work presents a binder-free electrode with large area cobalt oxide composited on a carbon nanostructure in a three dimensional (3D) architecture. This unique 3D electrode successfully demonstrates extraordinary pseudocapacitor performance with ultrahigh specific capacitance at high current densities.

1. Introduction

1Corresponding author. Tel: 86-28-67076208, Fax:86-28-67076210, E-mail address: mliuhao@gmail.com

2Corresponding author. Tel: 86-816-2484817, E-mail address: wangchy807@caep.cn

Download English Version:

<https://daneshyari.com/en/article/5460334>

Download Persian Version:

<https://daneshyari.com/article/5460334>

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