## **Accepted Manuscript**

Quasi-Solid-State Flexible Asymmetric Supercapacitor Based on Ferroferric Oxide Nanoparticles on Porous Silicon Carbide with Redox-Active p-Nitroaniline Gel Electrolyte

Myeongjin Kim, Jeeyoung Yoo, Jooheon Kim

PII: S1385-8947(17)30756-8

DOI: http://dx.doi.org/10.1016/j.cej.2017.05.015

Reference: CEJ 16913

To appear in: Chemical Engineering Journal

Received Date: 5 February 2017 Revised Date: 2 May 2017 Accepted Date: 3 May 2017



Please cite this article as: M. Kim, J. Yoo, J. Kim, Quasi-Solid-State Flexible Asymmetric Supercapacitor Based on Ferroferric Oxide Nanoparticles on Porous Silicon Carbide with Redox-Active *p*-Nitroaniline Gel Electrolyte, *Chemical Engineering Journal* (2017), doi: http://dx.doi.org/10.1016/j.cej.2017.05.015

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**

### Quasi-Solid-State Flexible Asymmetric Supercapacitor Based on

#### Ferroferric Oxide Nanoparticles on Porous Silicon Carbide with Redox-

#### Active *p*-Nitroaniline Gel Electrolyte

Myeongjin Kim<sup>a</sup>, Jeeyoung Yoo<sup>b</sup> and Jooheon Kim<sup>a</sup>,\*

((Optional Dedication))

Dr. Myeongjin Kim<sup>a</sup>

<sup>a</sup> School of Chemical Engineering & Materials Science, Chung-Ang University, 211 Heukseok-dong,

Dongjak-gu, Seoul 156-756, Republic of Korea

E-mail: nametruth@gmail.com

Dr. Jeeyoung Yoob

<sup>b</sup> Department of Transdisciplinary Studies, Program in Nano Science and Technology, Graduate

School of Convergence Science and Technology, Seoul National University, Seoul 08826, Republic

of Korea

E-mail: jyoo78@snu.ac.kr

Prof. Jooheon Kima, \*

<sup>a</sup> School of Chemical Engineering & Materials Science, Chung-Ang University, 211 Heukseok-dong,

Dongjak-gu, Seoul 156-756, Republic of Korea

E-mail: jooheonkim@cau.ac.kr

Tel:+82-2-820-5763; Fax:+82-2-812-3495

Keywords: Supercapacitors; Silicon carbide; Ferroferric oxide; Redox active electrolyte; p-

Nitroaniline; Solid-state-asymmetric supercapacitor.

#### Download English Version:

# https://daneshyari.com/en/article/4762996

Download Persian Version:

https://daneshyari.com/article/4762996

<u>Daneshyari.com</u>