Accepted Manuscript

Title: Flower-like Mesoporous Nano NiCo₂O₄ -decorated ERGO/Ni-NiO foam as electrode materials for Supercapacitor

Authors: Majid Mirzaee, Changiz Dehghanian

PII: S0025-5408(18)31947-0

DOI: https://doi.org/10.1016/j.materresbull.2018.09.020

Reference: MRB 10187

To appear in: MRB

Received date: 21-6-2018 Revised date: 30-8-2018 Accepted date: 13-9-2018

Please cite this article Mirzaee M, Dehghanian C, Flower-like as: Mesoporous Nano NiCo₂O₄ -decorated ERGO/Ni-NiO foam as electrode materials for Supercapacitor, Materials Research Bulletin (2018),https://doi.org/10.1016/j.materresbull.2018.09.020

Materials Research Bulletin

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.

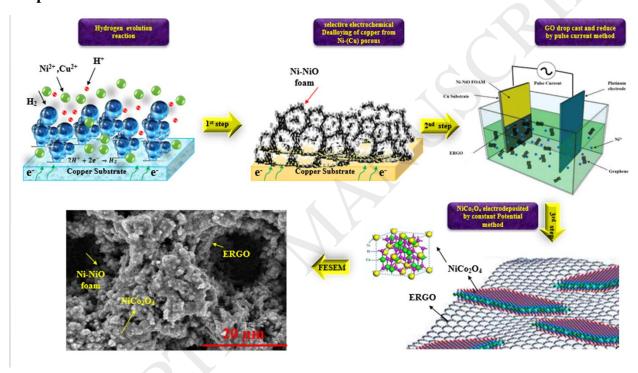
ACCEPTED MANUSCRIPT

Flower-like Mesoporous Nano $NiCo_2O_4$ -decorated ERGO/Ni-NiO foam as electrode materials for Supercapacitor

Majid Mirzaee^{1*}, Changiz Dehghanian²

^{1,2} University of Tehran, Faculty of Engineering, School of Metallurgy and Materials Engineering, P.O. Box 11155-4563

Graphical Abstract



Highlights

- Flower like NiCo₂O₄ was prepared by a chronoamprometric route on ERGO/Ni-NiO foam.
- Large BET surface area and mesoporous structure give excellent electrochemical performances.
- High specific capacitance of 2461 F/g was obtained at a current density of 1 A/g.
- Excellent electrochemical stability of 94% after 4000 charge-discharge cycles

 $^{^{*1}\}mbox{PhD}$ student and corresponding author, Tel.: +989124168610; E-mail address: majidmirzaee7@gmail.com $^{2}\mbox{Full professor}$; E-mail:cdehghan@ut.ac.ir

Download English Version:

https://daneshyari.com/en/article/10155584

Download Persian Version:

https://daneshyari.com/article/10155584

<u>Daneshyari.com</u>