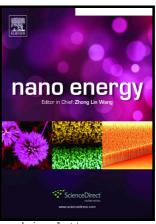
Author's Accepted Manuscript

Morphology-dependent Performance of Nanostructured Ni₃S₂/Ni Anode Electrodes for High Performance Sodium Ion Batteries

Xiaosheng Song, Xifei Li, Zhimin Bai, Bo Yan, Dejun Li, Xueliang Sun



www.elsevier.com/locate/nanoenergy

PII: S2211-2855(16)30201-4

DOI: http://dx.doi.org/10.1016/j.nanoen.2016.06.019

Reference: NANOEN1337

To appear in: Nano Energy

Received date: 11 April 2016 Revised date: 1 June 2016 Accepted date: 11 June 2016

Cite this article as: Xiaosheng Song, Xifei Li, Zhimin Bai, Bo Yan, Dejun Li and Xueliang Sun, Morphology-dependent Performance of Nanostructured Ni₃S₂/N Anode Electrodes for High Performance Sodium Ion Batteries, *Nano Energy* http://dx.doi.org/10.1016/j.nanoen.2016.06.019

This is a PDF file of an unedited manuscript that has been accepted fo publication. As a service to our customers we are providing this early version o the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable 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

Morphology-dependent Performance of Nanostructured Ni₃S₂/Ni Anode Electrodes for High Performance Sodium Ion Batteries

Xiaosheng Song, ^{a,b,c} Xifei Li, ^{b,c}* Zhimin Bai, ^a* Bo Yan, ^{a,b,c} Dejun Li, ^{b,c} Xueliang Sun ^{d,b,c}*

^aBeijing Key Laboratory of Materials Utilization of Nonmetallic Minerals and Solid Wastes, National Laboratory of Mineral Materials, School of Materials Science and Technology, China University of Geosciences, Beijing, 100083, China. E-mail: zhimibai@cugb.edu.cn; Tel: +86-13691115187

^bEnergy & Materials Engineering Centre, College of Physics and Materials Science, Tianjin Normal University, Tianjin 300387, China. E-mail: xfli2011@hotmail.com; Tel: +86-22-23766526, Fax: +86-22-23766503

^cTianjin International Joint Research Centre of Surface Technology for Energy Storage Materials, Tianjin 300387, China

^dNanomaterials and Energy Lab, Department of Mechanical and Materials Engineering, University of Western Ontario, London, Ontario N6A 5B9, Canada. E-mail: xsun@eng.uwo.ca

Abstract

Transition metal sulfides have been treated as promising materials for lithium-ion battery, and recently more and more attention has been paid to its applications in sodium-ion batteries. In our context, three Ni_3S_2 nanostructures directly grown on Ni foam were successfully designed using a facile hydrothermal method. The influences

Download English Version:

https://daneshyari.com/en/article/7953492

Download Persian Version:

https://daneshyari.com/article/7953492

<u>Daneshyari.com</u>