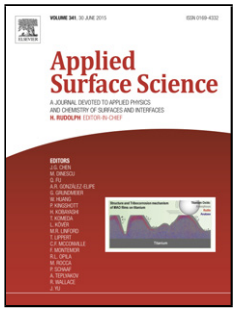
Accepted Manuscript



Title: Porous $Ni_3(NO_3)_2(OH)_4$ nano-sheets for supercapacitors: facile synthesis and excellent rate performance at high mass loadings

Authors: Mingjie Shi, Mangwei Cui, Litao Kang, Taotao Li, Shan Yun, Jing Du, Shoudong Xu, Ying Liu

PII: S0169-4332(17)32612-0
DOI: http://dx.doi.org/10.1016/j.apsusc.2017.09.012
Reference: APSUSC 37091

To appear in: *APSUSC*

Received date: 31-5-2017
Revised date: 8-8-2017
Accepted date: 3-9-2017

Please cite this article as: Mingjie Shi, Mangwei Cui, Litao Kang, Taotao Li, Shan Yun, Jing Du, Shoudong Xu, Ying Liu, Porous Ni3(NO3)2(OH)4 nano-sheets for supercapacitors: facile synthesis and excellent rate performance at high mass loadings, Applied Surface Sciencehttp://dx.doi.org/10.1016/j.apsusc.2017.09.012

Porous $Ni_3(NO_3)_2(OH)_4$ nano-sheets for supercapacitors: facile synthesis and excellent rate performance at high mass loadings

Mingjie Shi[a,#], Mangwei Cui[a,#], Litao Kang[a,b,*], Taotao Li[a], Shan Yun[b], Jing Du[c], Shoudong Xu[a] and Ying Liu[a]

[a]Laboratory of Green Energy Materials and Storage Systems, College of Materials Science and Engineering, Taiyuan University of Technology, Taiyuan 030024, China

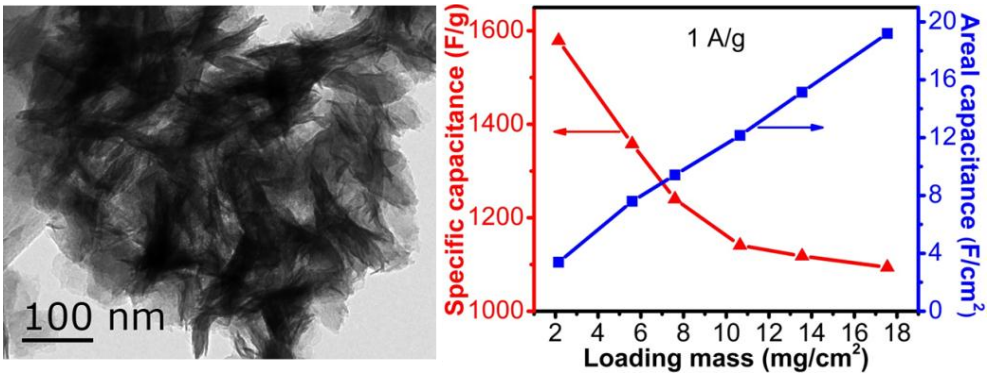
[b]Jiangsu Provincial Engineering Laboratory for Advanced Materials of Salt Chemical Industry, Jiangsu Collaborative Innovation Center for Rock Salt and Concave Soil Resources Deep Utilization, Huaiyin Institute of Technology, Huaian 223003, China

[c]Shenzhen China textile filters co., ltd, Shenzhen 518055, China

*Corresponding Author. Email: kangltxy@163.com (L.T. Kang)

# These authors contributed equally to this work and should be considered as co-first authors.

Graphic abstract



Highlights

- Porous $Ni_3(NO_3)_2(OH)_4$ nanosheets were prepared by heating a mild inorganic solution
- The $Ni_3(NO_3)_2(OH)_4$ nanosheets exhibited a high capacitance and rate capability
- High capacitances were achieved at very high active material mass loadings