Title: Facile synthesis of MoO_2@C nanoflowers as anode materials for sodium-ion batteries

Authors: Chunyu Cui, Qiulong Wei, Liang Zhou, Liqiang Mai, Jianmin Ma

PII: S0025-5408(17)30978-9
DOI: http://dx.doi.org/doi:10.1016/j.materresbull.2017.05.046
Reference: MRB 9365

To appear in: *MRB*

Received date: 13-3-2017
Revised date: 16-5-2017
Accepted date: 23-5-2017

Please cite this article as: Chunyu Cui, Qiulong Wei, Liang Zhou, Liqiang Mai, Jianmin Ma, Facile synthesis of MoO2@C nanoflowers as anode materials for sodium-ion batteries, Materials Research Bulletinhttp://dx.doi.org/10.1016/j.materresbull.2017.05.046

Facile synthesis of MoO_2@C nanoflowers as anode materials for sodium-ion batteries

Chunyu Cui[a,b], Qiulong Wei[c], Liang Zhou[c], Liqiang Mai[*,c], Jianmin Ma[*,b]

[a]*State Key Laboratory of Chem-/Bio-Sensing and Chemometrics, College of Chemistry and Chemical Engineering, Hunan University, Changsha 410082, China*

[b]*Key Laboratory for Micro-/Nano-Optoelectronic Devices of the Ministry of Education, School of Physics and Electronics, Hunan University, Changsha 410082, China*

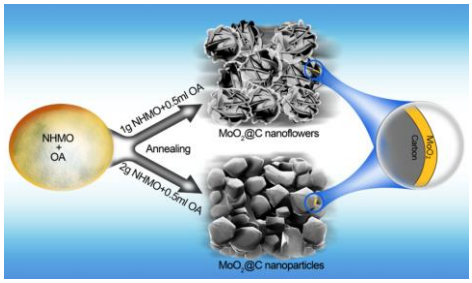
[c]*State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan 430070, China*

Corresponding authors:

Jianmin Ma, E-mail: nanoelechem@hnu.edu.cn

Liqiang Mai, Email: mlq518@whut.edu.cn

Graphical abstract



The as-obtained MoO_2@C nanoflowers deliver a reversible capacity of 172 mAh g^{-1} at 0.1 A g^{-1} and a capacity of 166 mA h g^{-1} after 1000 cycles at 1.0 A g^{-1}.