

Author's Accepted Manuscript

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PII: S2405-8297(17)30075-2
DOI: <http://dx.doi.org/10.1016/j.ensm.2017.03.006>
Reference: ENSM132

To appear in: *Energy Storage Materials*

Received date: 26 February 2017

Accepted date: 16 March 2017

Cite this article as: Wei Xiong, Zhenyu Wang, Jianqiao Zhang, Chaoqun Shang, Mingyang Yang, Liqing He and Zhouguang Lu, Novel Hierarchical Ball-in-Bal Structured Nitrogen-Doped Carbon Microspheres as High Performance Anode for Sodium-Ion Batteries, *Energy Storage Materials* <http://dx.doi.org/10.1016/j.ensm.2017.03.006>

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Novel Hierarchical Ball-in-Ball Structured Nitrogen-Doped Carbon Microspheres as High Performance Anode for Sodium-Ion Batteries

Wei Xiong^{a,b}, Zhenyu Wang^a, Jianqiao Zhang^a, Chaoqun Shang^a, Mingyang Yang^a,
Liqing He^a, Zhouguang Lu^{a,*}

^aDepartment of Materials Science & Engineering, Southern University of Science and Technology, Shenzhen, P.R. China.

^bDepartment of Physics and Materials Science, City University of Hong Kong, Kowloon, Hong Kong SAR, China.

*Corresponding author: luzg@sustc.edu.cn (Z. G. Lu)

Abstract:

Microspheres with ball-in-ball (yolk@void@shell) structure have attracted much attention in energy storage materials. However, current fabrication technologies mainly rely on utilizing silica as templates with HF acid etching or hydrothermal method to fabricate the ball-in-ball structural microspheres, and an additional step (KOH activation) is adopted to generate porous structure. Apparently, it cannot meet the demand for large-scale industrial production, on account of potential explosive

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