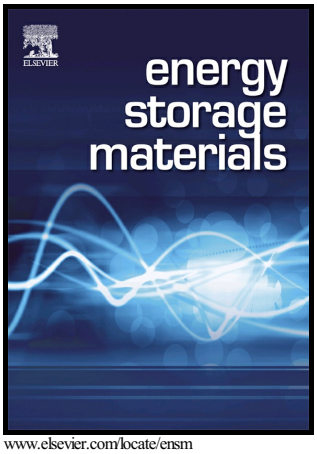

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LiI embedded meso-micro porous carbon polyhedrons for lithium iodine battery with superior lithium storage properties

Zhenzhen Wu[a,b1], Jiantie Xu[c1], Qian Zhang[b], Haibo Wang[a], Shihai Ye[b*], Yonglong Wang[b], Chao Lai[a*]

[a]School of Chemistry and Chemical Engineering, Jiangsu Key Laboratory of Green Synthetic Chemistry for Functional Materials, Jiangsu Normal University, Xuzhou 221116, China

[b]Institute of New Energy Material Chemistry, School of Materials Science and Engineering, National Institute for Advanced Materials, Nankai University, Tianjin 300350, China

[c]Institute for Superconducting and Electronic Materials, University of Wollongong, Wollongong 2500, Australia.

laichao@jsnu.edu.cn

yeshihai@nankai.edu.cn

Abstract:

Lithium iodide (LiI) as cathode for lithium-iodine (Li-I_2) batteries hold great promise compared to I_2 mainly owing to its greater merits, including its potential pairing with a lithium-metal-free anode and only ~5% decrease in theoretical capacity. LiI confined within the meso-micro porous carbon polyhedrons (LiI@MCP) as cathode for Li-I_2 batteries has been studied for the first time. Benefiting from the rich meso-/micro-porous structures and highly conductive

[1] contributed equally to this work.