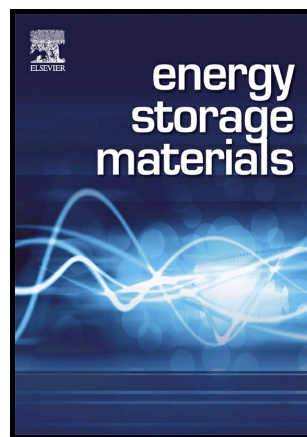


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LiI embedded meso-micro porous carbon polyhedrons for lithium iodine battery with superior lithium storage properties

Zhenzhen Wu^{a,b1}, Jiantie Xu^{c1}, Qian Zhang^b, Haibo Wang^a, Shihai Ye^{b*}, Yonglong Wang^b, Chao Lai^{a*}

^aSchool of Chemistry and Chemical Engineering, Jiangsu Key Laboratory of Green Synthetic Chemistry for Functional Materials, Jiangsu Normal University, Xuzhou 221116, China

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

^cInstitute 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-I₂) batteries hold great promise compared to I₂ 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-I₂ 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.

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