## Accepted Manuscript

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PII: S1385-8947(18)31979-X

DOI: https://doi.org/10.1016/j.cej.2018.10.038

Reference: CEJ 20101

To appear in: Chemical Engineering Journal

Received Date: 10 July 2018
Revised Date: 1 October 2018
Accepted Date: 6 October 2018



Please cite this article as: J. Shen, H. Wu, W. Sun, J. Qiao, H. Cai, Z. Wang, K. Sun, In-situ nitrogen-doped hierarchical porous hollow carbon spheres anchored with iridium nanoparticles as efficient cathode catalysts for reversible lithium-oxygen batteries, *Chemical Engineering Journal* (2018), doi: https://doi.org/10.1016/j.cej. 2018.10.038

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## ACCEPTED MANUSCRIPT

In-situ nitrogen-doped hierarchical porous hollow carbon spheres anchored with iridium nanoparticles as efficient cathode catalysts for reversible lithium-oxygen batteries

Junrong Shen <sup>a, 1</sup>, Haitao Wu <sup>a, 1</sup>, Wang Sun <sup>a, b, \*</sup>, Jinshuo Qiao <sup>a</sup>, Huiqun Cai <sup>c</sup>, Zhenhua Wang <sup>a, d</sup>, Kening Sun <sup>a, d, \*</sup>

<sup>a</sup> Beijing Key Laboratory for Chemical Power Source and Green Catalysis, School of Chemistry and Chemical Engineering, Beijing Institute of Technology, Beijing 100081, China.

<sup>b</sup> State Key Laboratory of Advanced Chemical Power Sources, Guizhou Meiling Power Sources Co. Ltd., Zunyi, Guizhou 563003, China

<sup>c</sup> Yinlong Energy Co. Ltd, No. 16 Jinhu Rd., Sanzao Town, Jinwan District, Zhuhai City, China

<sup>d</sup> Collaborative Innovation Center of Electric Vehicles in Beijing, No. 5

Zhongguancun South Avenue, Haidian District, Beijing 100081, China

bitkeningsun@163.com (Kening Sun). Tel: +86-010-6891 8696

<sup>&</sup>lt;sup>1</sup> These authors contributed equally to this work.

<sup>\*</sup> Corresponding Authors

<sup>\*</sup> E-mail address: sunwang@bit.edu.cn (Wang Sun); Tel: +86-010-6891 8696

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