Supporting Information

**Metal-organic framework derived Co-N-reduced graphene oxide as electrode materials for rechargeable Li-O₂ batteries**

Xiujing Lin, Yang Yang, Zhuang Li, Tingting Zhang, Yizhou Wang, Ruiqing Liu, Pan Li, Yi Li, Zhendong Huang, Xiaomiao Feng, Yanwen Ma*

Key Laboratory for Organic Electronics and Information Displays & Jiangsu Key Laboratory for Biosensors, Institute of Advanced Materials (IAM), Jiangsu National Synergetic Innovation Center for Advanced Materials (SICAM), Nanjing University of Posts & Telecommunications, 9 Wenyuan Road, Nanjing 210023, China.

* Corresponding author. Tel.: +86 25 8586 6353; Fax: +86 25 8586 6396  
E-mail address: iamywma@njupt.edu.cn
Fig. S1: (a) XRD patterns of ZIF-67/GO and Co-N-rGO-t samples. N$_2$ adsorption-desorption isotherms and BJH pore size distribution plots of Co-N-rGo-3h, Co-N-rGo-5h and Co-N-rGo-7h.
Fig. S2 Raman spectra of Co-N-rGO-t samples.
Fig. S3 XPS survey spectrum of Co-N-rGO-t samples.
Fig. S4 Charge/discharge profiles of the Li-O_2 batteries with different electrodes at the current density of 0.05 mA cm\(^2\).