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# **Electronic Supplementary Information**

## Well-dispersed ultrafine Mn<sub>3</sub>O<sub>4</sub> nanocrystal on reduced

### graphene oxide with high electrochemical Li-storage

#### performance

#### Hui Huang, Liyuan Zhang, Yang Xia, Yongping Gan, Xinyong Tao, Chu Liang, Wenkui Zhang\*

College of Materials Science and Engineering, Zhejiang University of Technology, Hangzhou, 310014, P. R. China.



Figure S1 SEM image of the Mn<sub>3</sub>O<sub>4</sub>/r-GO composite synthesized without adding

 $H_2O_2 \\$ 



Figure S2 Nitrogen adsorption-desorption isotherms of the two  $Mn_3O_4/r$ -GOcomposite synthesized (a) with or (b) without addition  $H_2O_2$ 



Figure S3 Galvanostatic charge-discharge profiles of the  $Mn_3O_4/r$ -GO composite synthesized without adding  $H_2O_2$