

Supplementary data

Synthesis of Nitrogen-doped Reduced Graphene Oxide Directly from Nitrogen-doped Graphene Oxide as High- performance Lithium Ion Battery Anodes

Meng Du, Jing Sun, Jie Chang, Fan Yang, Liangjing Shi and Lian Gao*

The State Key Lab of High Performance Ceramics and Superfine Microstructure,
Shanghai Institute of Ceramics, Chinese Academy of Sciences, 1295 Dingxi Road,
Shanghai 200050, P.R. China.

* Corresponding author.

E-mail address: jingsun@mail.sic.ac.cn (J. Sun)

Tel: +86 21 52414301. Fax: +86 21 5241312

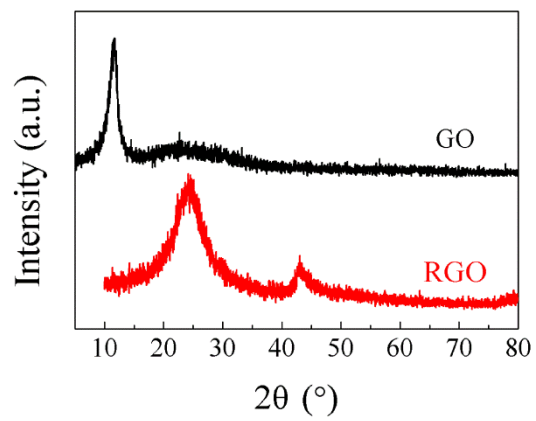


Figure S1. XRD patterns of GO and RGO.

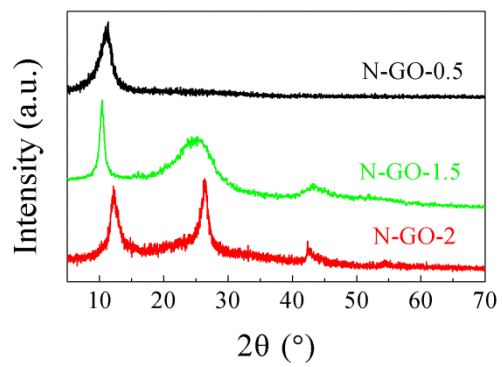


Figure S2. XRD patterns of N-GO-0.5, N-GO-1.5 and N-GO-2.

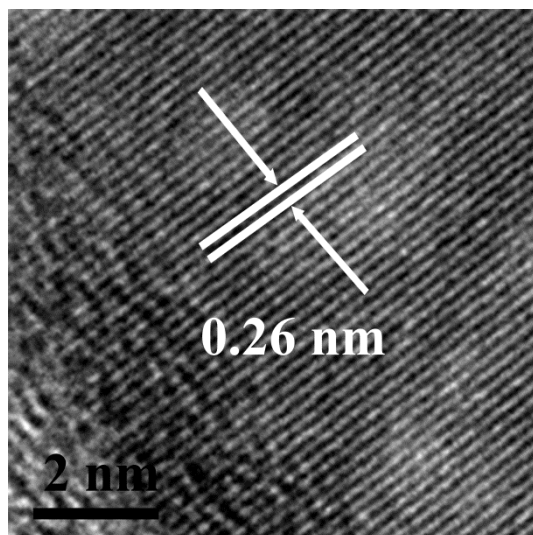


Figure S3. HRTEM image of Fe_2O_3 particle in $\text{Fe}_2\text{O}_3/\text{N-RGO}$ material.

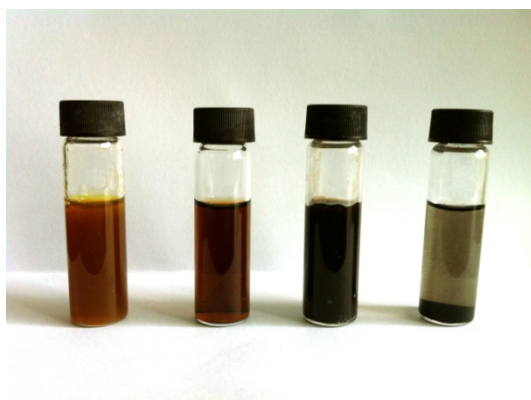


Figure S4. Digital photograph of N-GO-0.5 (left 1), N-GO (left 2), N-GO-1.5 (left 3) and N-GO-2 (left 4) after 12 h.

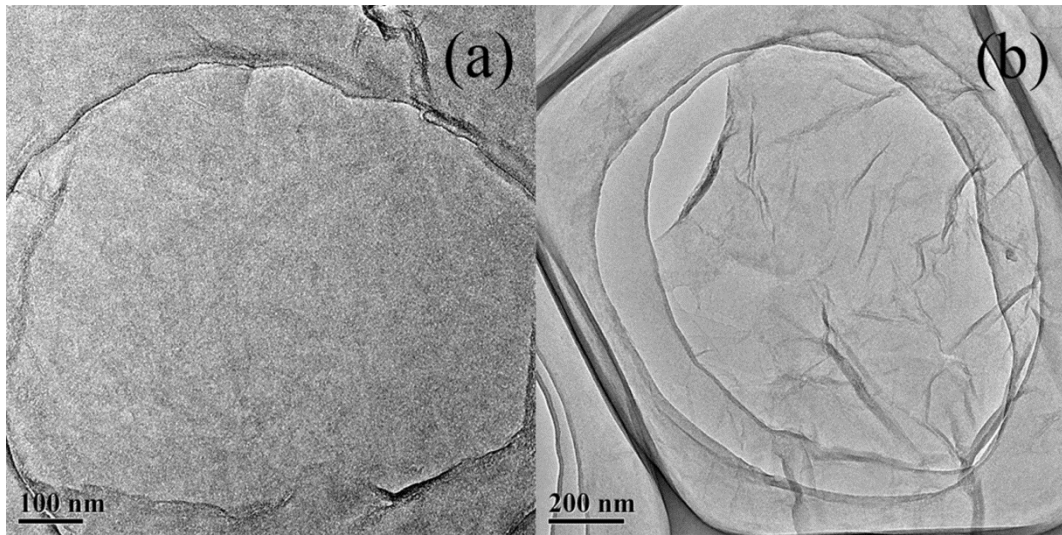


Figure S5. TEM images of GO at the measuring scale of (a) 100 nm and (b) 200 nm.

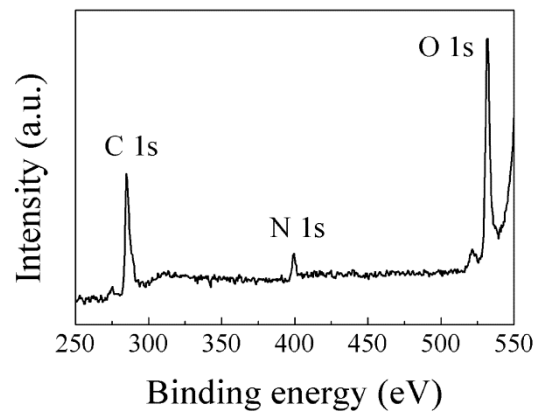


Figure S6. XPS spectrum of N-GO.

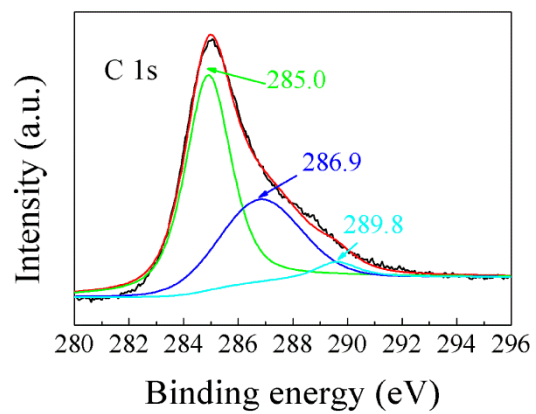


Figure S7. C 1s XPS spectrum of RGO.