**Supplementary data**

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

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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$_2$O$_3$ particle in Fe$_2$O$_3$/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.