Electronic Supplementary Information (ESI) for

Green and facile synthesis of Fe₃O₄ and graphene nanocomposites with enhanced rate capability and cycling stability for lithium ion batteries

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Figure S1. TEM image of Fe₃O₄/G nanocomposites.

Figure S2. Cyclic voltammograms characteristics of Fe₃O₄ electrode for the first five cycles in a voltage range of 0.01-3.0 V at a scanning rate of 0.2 mV s⁻¹.
Figure S3. Cycling performance of Fe$_3$O$_4$/G-2 nanocomposites at a current density of 200 mA g$^{-1}$ and for 100 cycles.

Figure S4. Cycling performance of pure Fe$_3$O$_4$ nanoparticles at a current density of 1000 mA g$^{-1}$ and for 100 cycles after activation for three cycles at 200 mA g$^{-1}$. 