

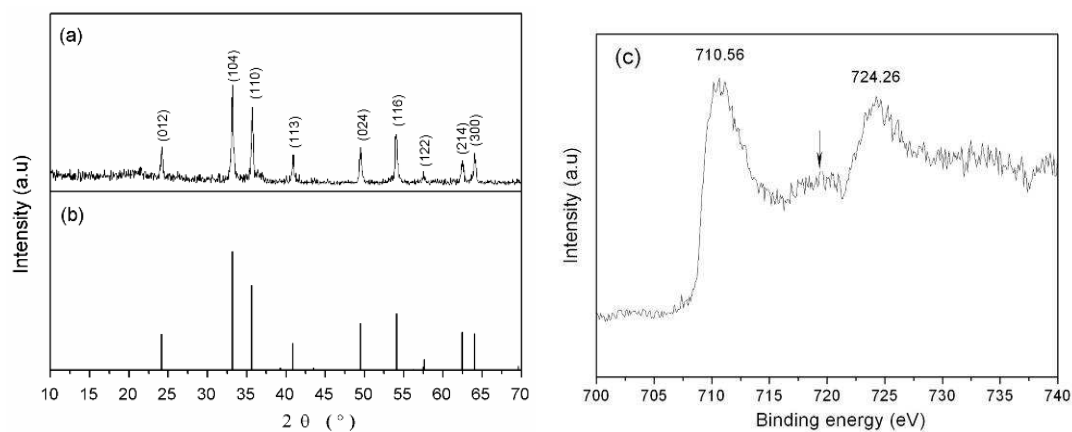
Supporting Information for

Nanostructured Reduced Graphene Oxide-Fe₂O₃ Composite as a High-Performance Anode Material for Lithium Ion Batteries

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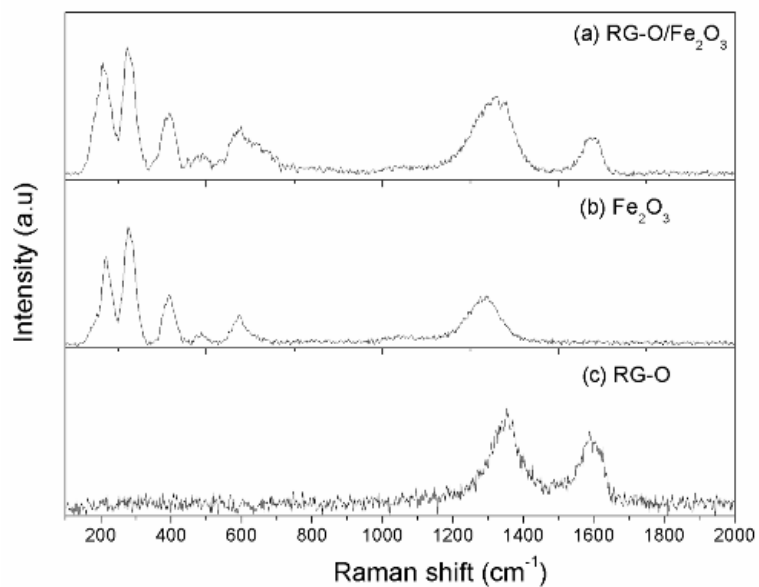
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FS1. XRD patterns of (a) RG-O/Fe₂O₃ composite, and (b) Fe₂O₃ (JCPDS 97-002-2505). (c) Fe2p XPS pattern of RG-O/Fe₂O₃.

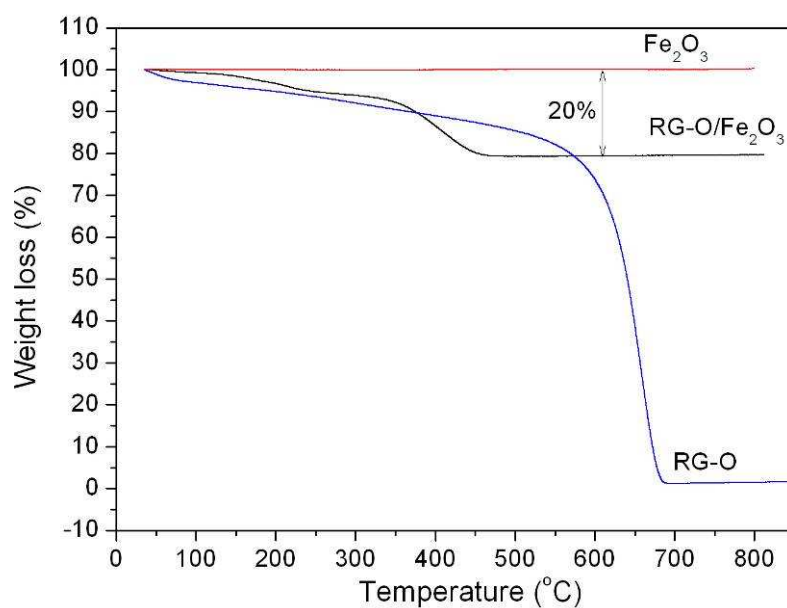


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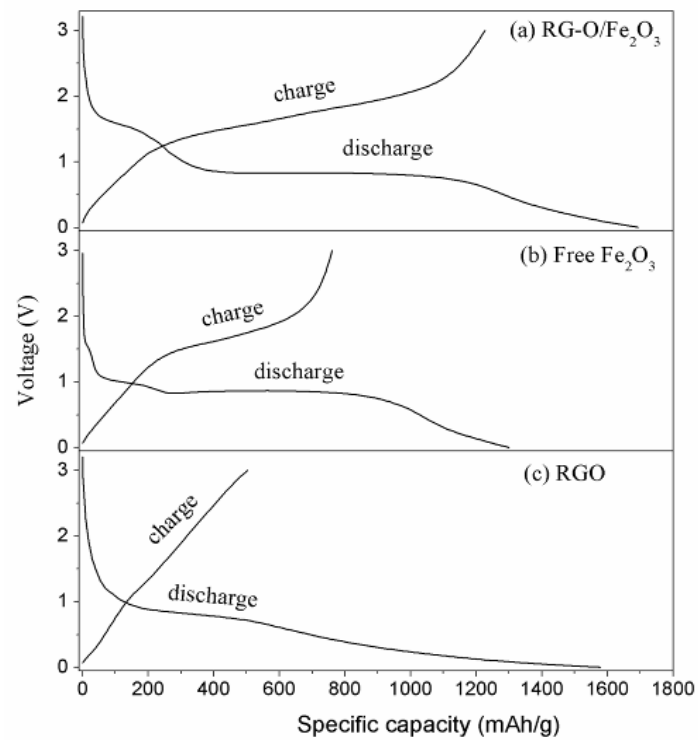
FS2. Raman spectra of (a) RG-O/Fe₂O₃ composite, (b) free Fe₂O₃, and (c) RG-O.



FS3. Thermal gravimetric analysis (TGA) curves of RG-O/Fe₂O₃, Fe₂O₃ and RG-O obtained at a heating rate of 5 °C/min under an air flow of 20 ml/min between 25~800 °C.



FS4. The comparison of the first cycles. (a) RG-O/ Fe_2O_3 , (b) Free Fe_2O_3 physically mixed with carbon black in the same ratio, and (c) RG-O.



FS5. Representative discharge and charge curves of RG-O/ Fe_2O_3 at different current densities.

