Electronic Supplementary Material (ESI) for New Journal of Chemistry.


# Supporting Information

## Synthesis of Porous $Mn_2O_3$ Embedded in Reduced Graphene Oxide as Advanced Anode Materials for Lithium Storage

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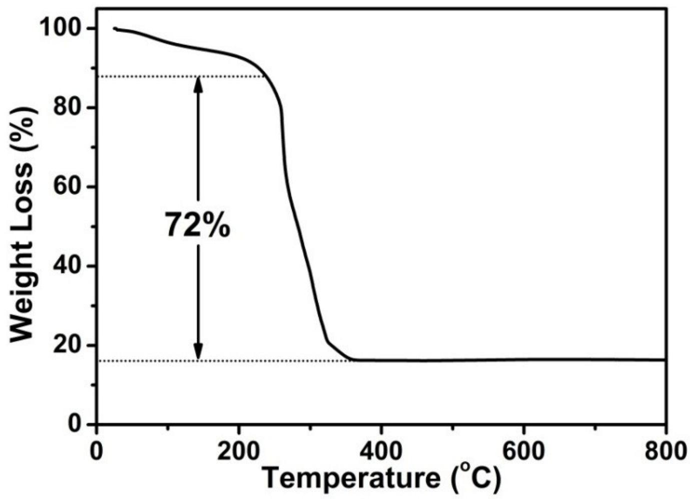


**Figure S1.** TGA plot of self-assembly aggregation precursor $Mn(OAc)_2$-C-8.

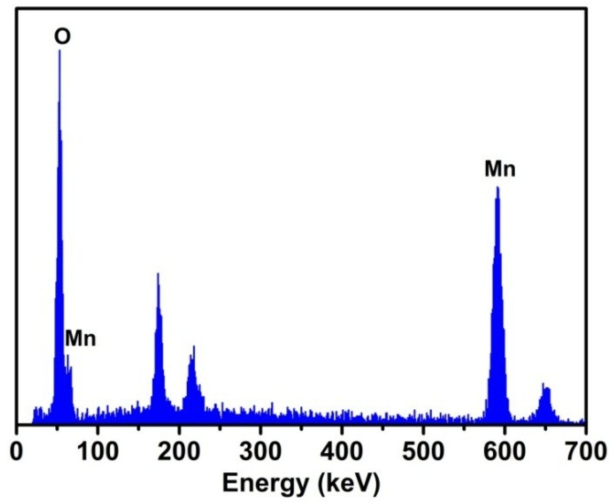


**Figure S2.** Energy-dispersive X-ray spectroscopy (EDS) plot of pure $Mn_2O_3$ nanospheres.

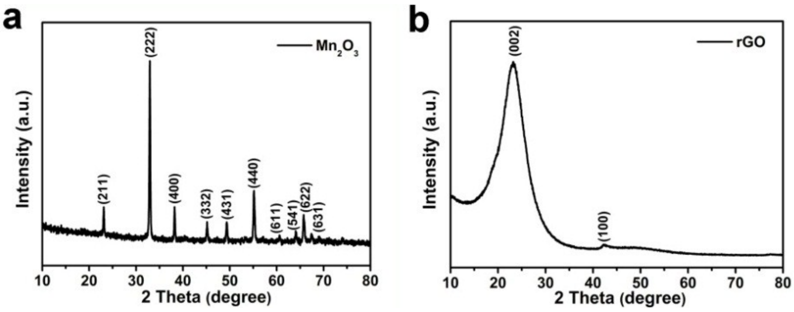


**Figure S3.** XRD patterns of pure $Mn_2O_3$ nanospheres and rGO.

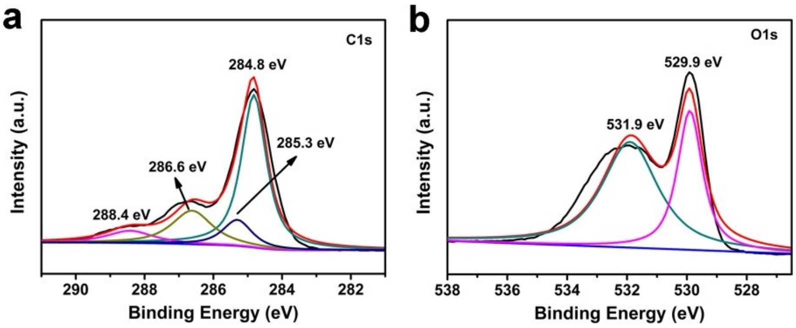


**Figure S4.** XPS spectra for as-prepared $Mn_2O_3$@rGO composites: the high resolution spectra for (a) C1s, (b) O1s.

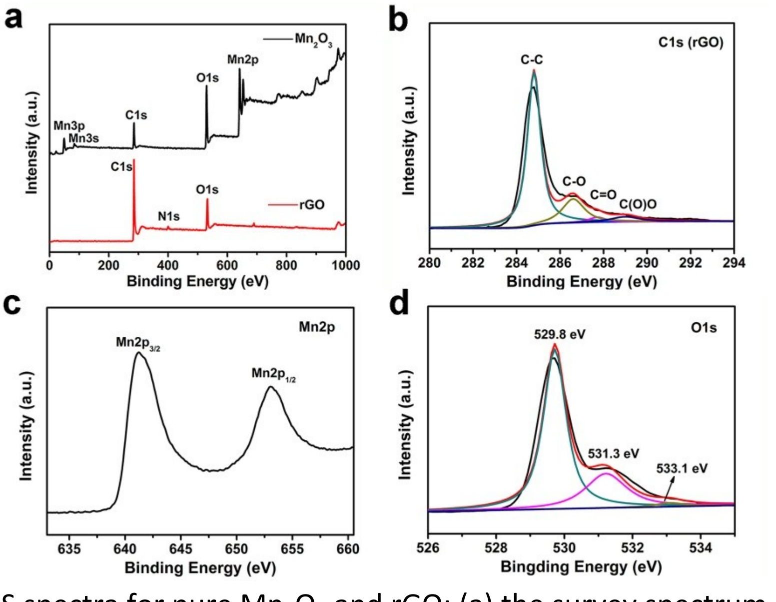


**Figure S5.** XPS spectra for pure $Mn_2O_3$ and rGO: (a) the survey spectrum and the high resolution spectra for (b) C1s of rGO, (c) Mn2p and (d) O1s.

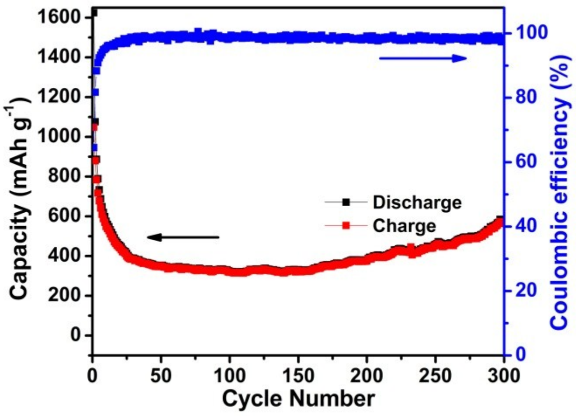


**Figure S6.** Cycling performance and coulombic efficiency of pure $Mn_2O_3$ nanospheres at a current density of 0.1 A $g^{-1}$.