## **Electronic supplement information**:

## A Facile Route to Synthesize Transition Metal Oxide/Reduced Graphene Oxide Composites and Li-ions Storage Performance

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Figure S1. AFM image of a GO monolayer deposited on a SiO<sub>2</sub> substrate.



Figure S2. Typical SEM images for Mn (a), Fe (b), Co (c), and Zn (d) powder.



Figure S3. XRD results for metal powders.



Figure S4. XRD patterns for Sample 2-5 and Sample 22 containing Zn.



Figure S5.XRD patterns for Sample #7-13 and Sample #23 containing Fe.



Figure S6. XRD patterns for Sample 15-20 and Sample 24 containing Mn.



Figure S7. TGA and DSC curves for Fe<sub>2</sub>O<sub>3</sub>/RGO composite.