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## **Supplementary materials**

## Rational synthesis of the $ZnMn_2O_4$ porous spheres and graphene

## nanocomposite with enhanced performance for lithium-ion batteries

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Figure S1 XRD of the Zn0.33Mn0.67CO3 solid spheres.



Figure S2 XRD pattern of the GO.



Figure S3 N<sub>2</sub> adsorption/desorption isotherm of the ZMO PSs and inset the pore size distribution.



Figure S4 EDS analysis of the as-prepared ZMO PSs.



Figure S5 CV curves of the ZMO PSs.