Supporting Information

Facile synthesis and lithium storage performance of tiny oxygen vacancy-enriched zinc manganate nanoparticles anchored on reduced graphene oxide nanocomposite

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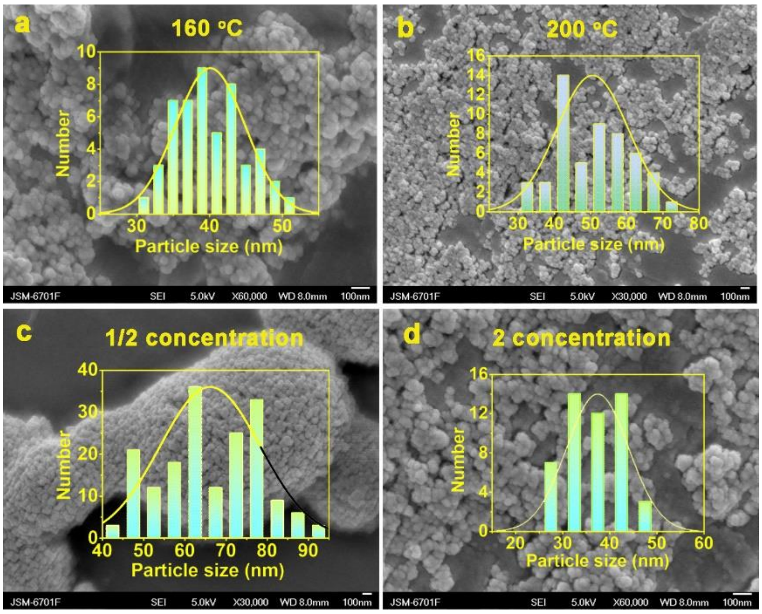

Figure S1. SEM images and size distribution plots (inset) of ZMO nanoparticles: (a) 160 ºC, (b) 200 ºC, (c) 1/2 concentration, (d) 2 concentration.

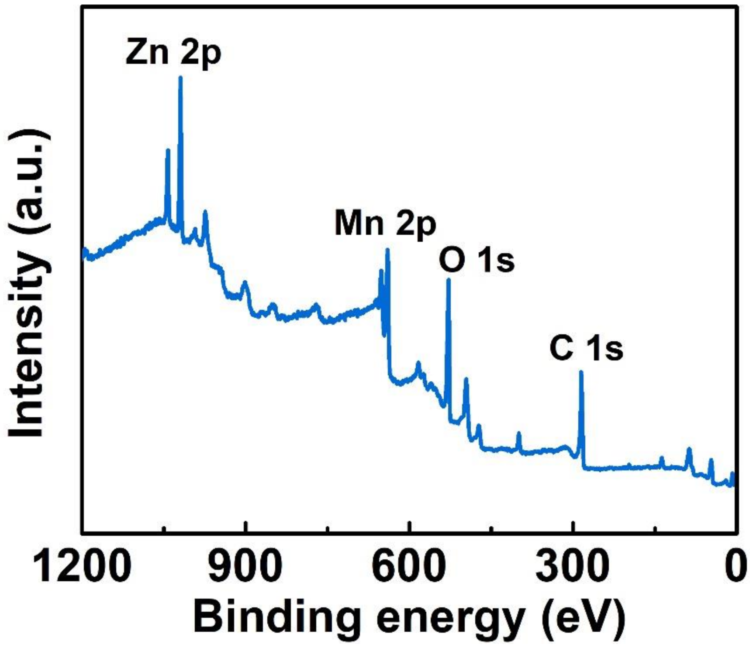

Figure S2. Full XPS spectrum of O-ZMO/rGO nanocomposite.

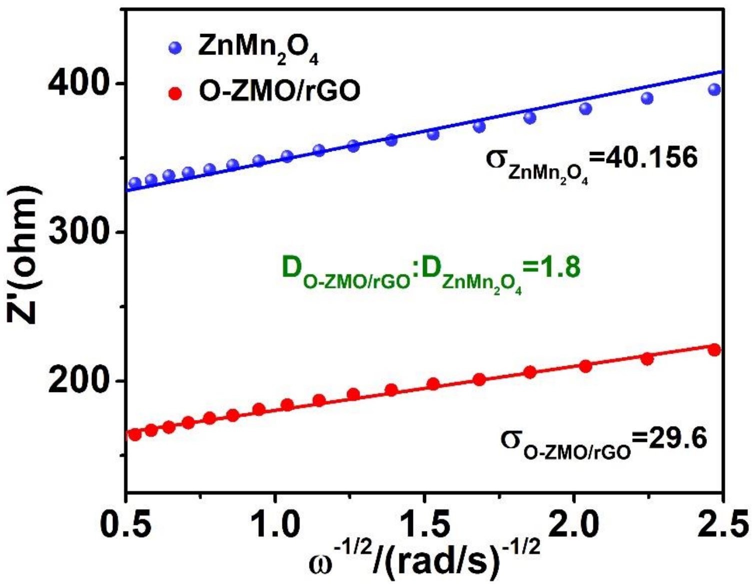

Figure S3. Relationship between Z' and $\omega^{-1/2}$.

Table S1. Performance comparison of present work with the reported $ZnMn_2O_4$-based compounds electrodes.

Sample	Current density (mA g^{-1})	Cycling number	Capacity (mAh g^{-1})	Ref.
O-ZMO/rGO	200 1000	100 700	1272.1 780.0	**This work**
$ZnMn_2O_4$ ball-in-ball hollow microspheres	400	120	750	1
$ZnMn_2O_4$ power	100	50	820	2
Reduced graphene oxide-wrapped $ZnMn_2O_4$ nanorods	100 2000	50 10	707 440	3
Crumpled $ZnMn_2O_4$ Nanosheets	100	500	461	4
Porous $ZnMn_2O_4$ thin films on Ni foams	400	100	982	5
Reduced graphene oxide wrapped $ZnMn_2O_4$/carbon nanofibers	100 2000	100 1000	1142 659	6
Macroporous $ZnMn_2O_4$/C microsphere	200 500	100 500	1249 820	7
Porous $ZnMn_2O_4$ hexagons	100	200	716	8
Graphene-Wrapped $ZnMn_2O_4$ Nanoparticles	100 500	20 200	1230 578	9
Spheroid-like $ZnMn_2O_4$ materials	100	100	＞100	10
Porous $ZnMn_2O_4$ hollow microrods	500	320	902	11
Hierarchical dual-carbon supported $ZnMn_2O_4$/C	100 1000	10 200	988.8 454.2	12

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