Electronic Supporting Information for

Binder-free stainless steel@Mn_3O_4 nanoflower composite: a high-activity aqueous zinc ion battery cathode with high-capacity and long-cycle-life

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Figures and captions

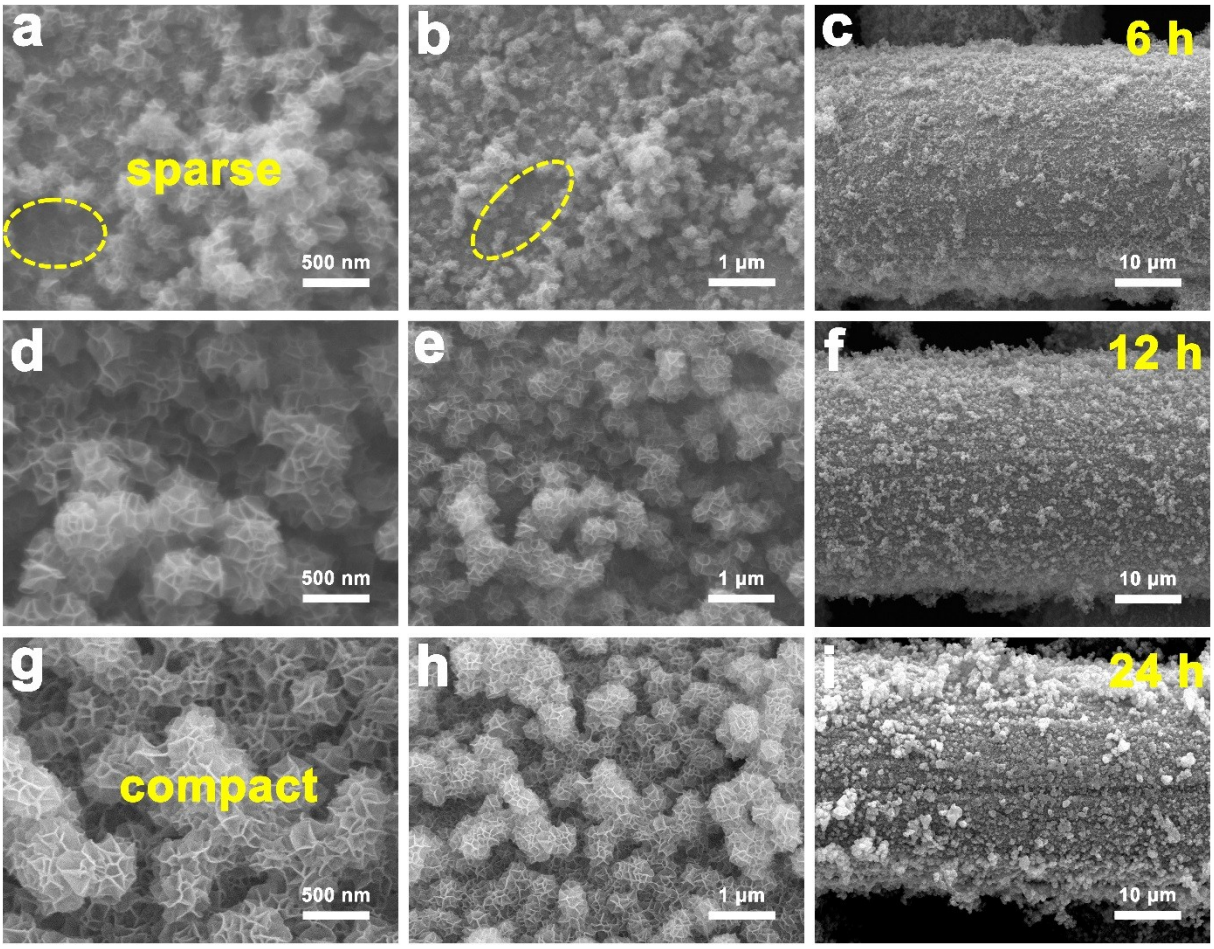


Fig. S1 SSWM@Mn_3O_4 synthesized at (a-c) 6 h, (d-f) 12 h and (g-i) 24 h.

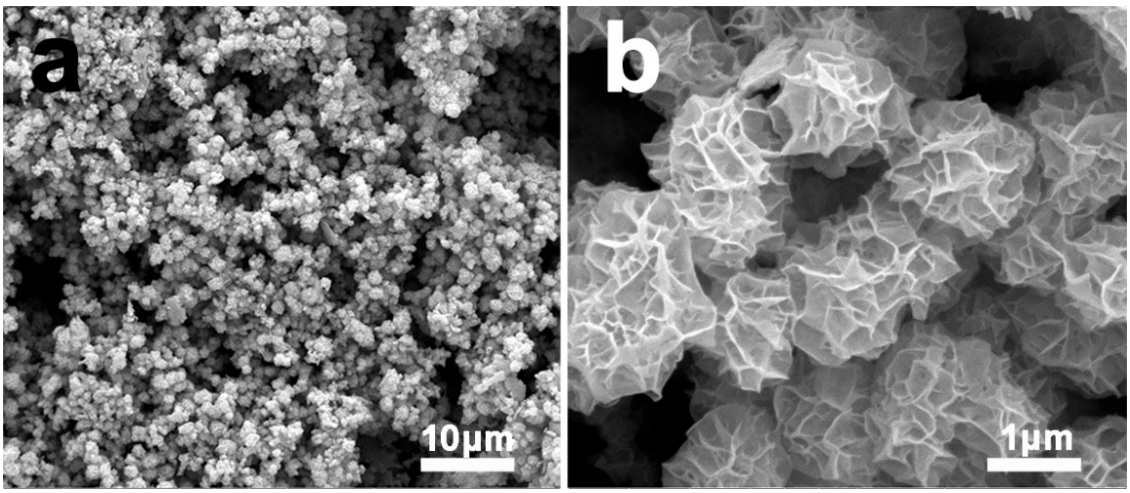
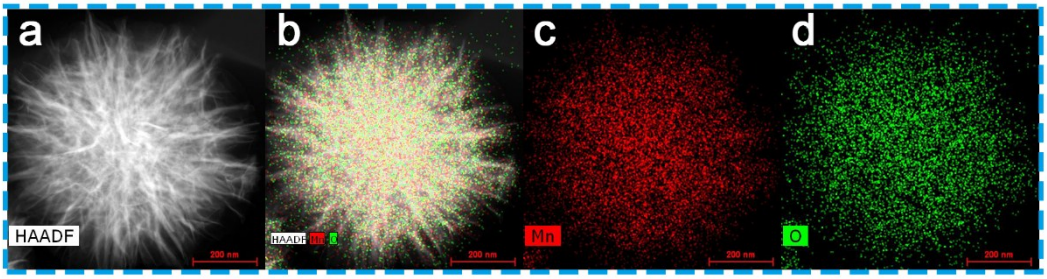


Fig. S2 SEM images of Mn_3O_4 powders.



Element	series	[norm. wt.%]	[norm. at.%]
Manganese	K	71.8831887	42.6785304
Oxygen	K	28.1168113	57.3214696

Fig. S3 (a) TEM image and corresponding elemental mapping of single Mn_3O_4 nanoflower (b) All elements, (c) Mn, (d) O, (e) EDS content analysis of Mn and O elements.

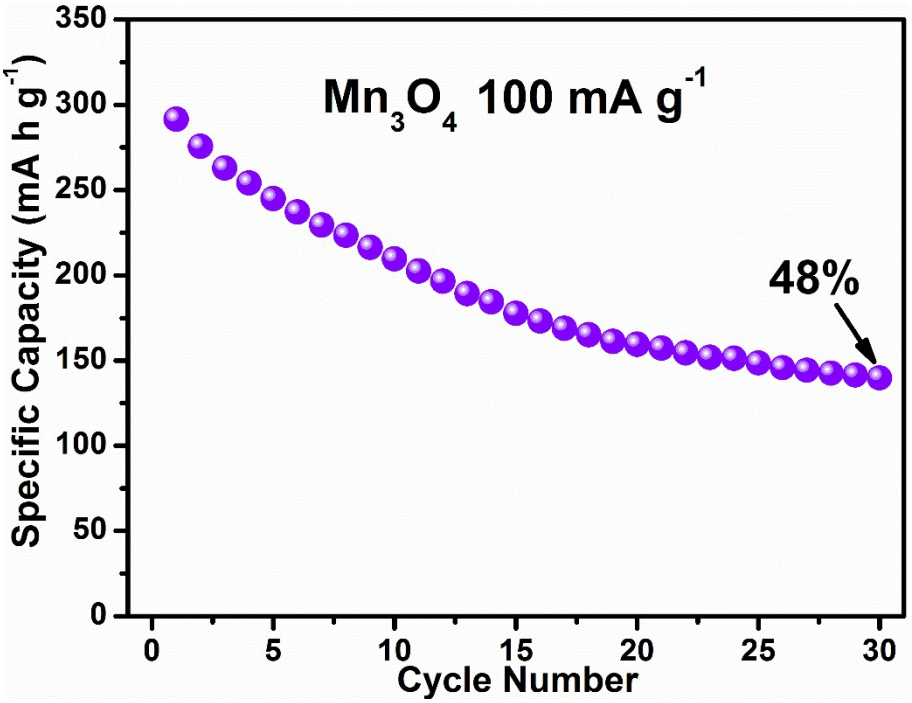


Fig. S4 Cycle performance at 100 mA g^{-1} of Mn_3O_4 electrode.

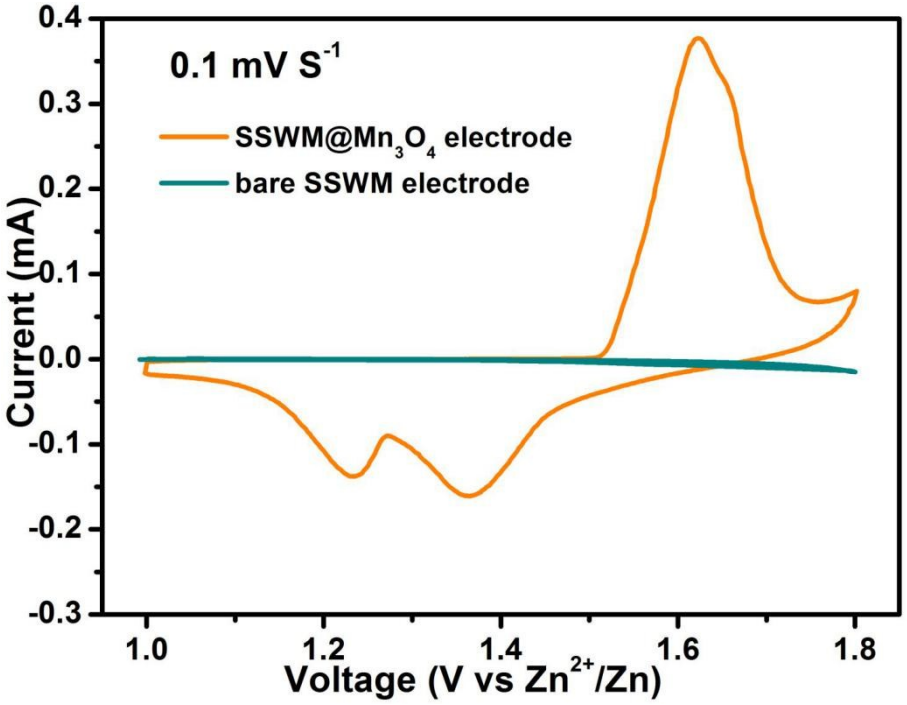


Fig. S5 The CV curve of bare SSWM electrode

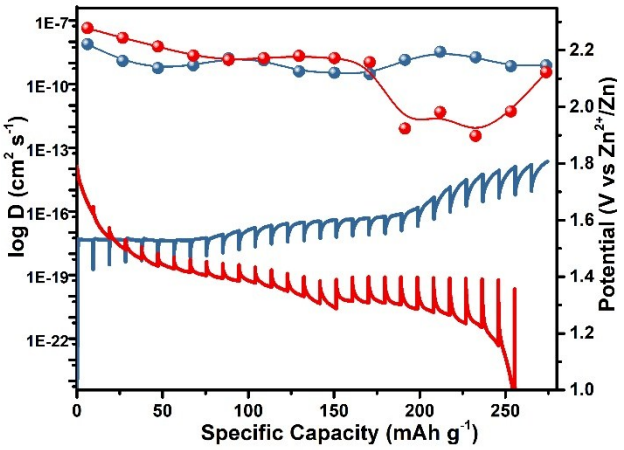


Fig. S6 Galvanostatic intermittent titration technique (GITT) profiles of the SSWM@Mn_3O_4 cell (100 mA g^{-1} for 10 min followed by a 0.5 h rest).