

Article

Phase Transformation Activated MnCO_3 as Cathode Material of Aqueous Zinc-ion Batteries

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Citation: Mo, F.; Cui, M.; Yang, L.; Lei, H.; Chen, S.; Wei, J.; Kang, L. Phase-Transformation-Activated MnCO_3 as Cathode Material of Aqueous Zinc-Ion Batteries. *Batteries* **2022**, *8*, 239. <https://doi.org/10.3390/batteries8110239>

Academic Editor: Andreas Jossen

Received: 27 September 2022

Accepted: 10 November 2022

Published: 15 November 2022

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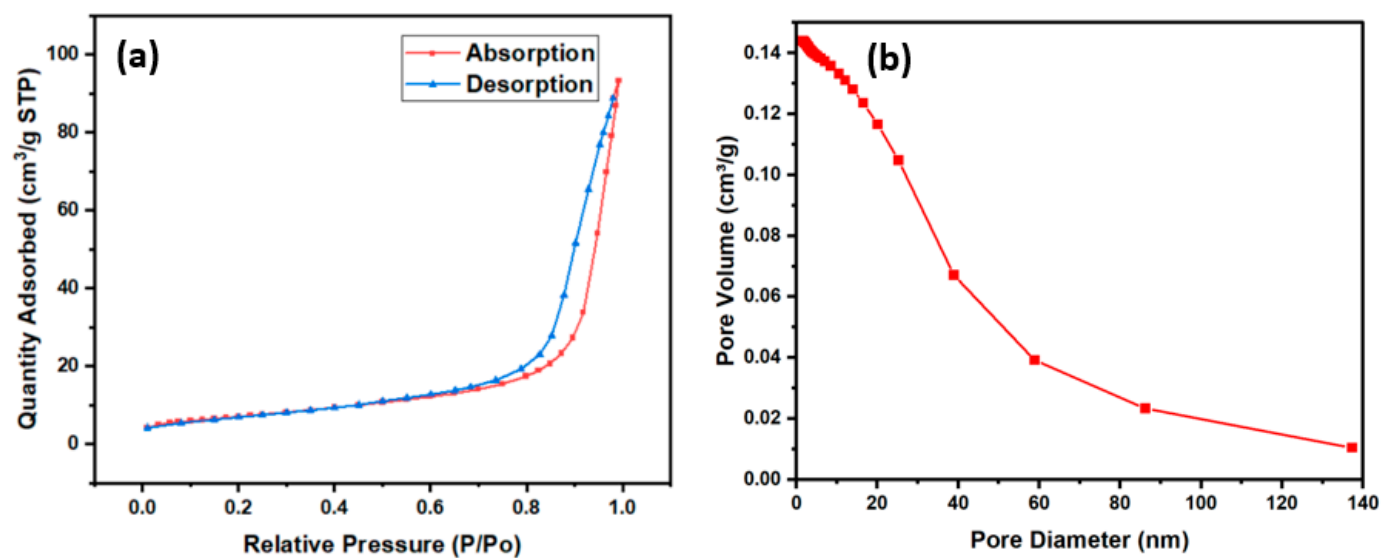


Figure S1 (a) BET adsorption/desorption curves and (b) BJH Adsorption Cumulative Pore volume.

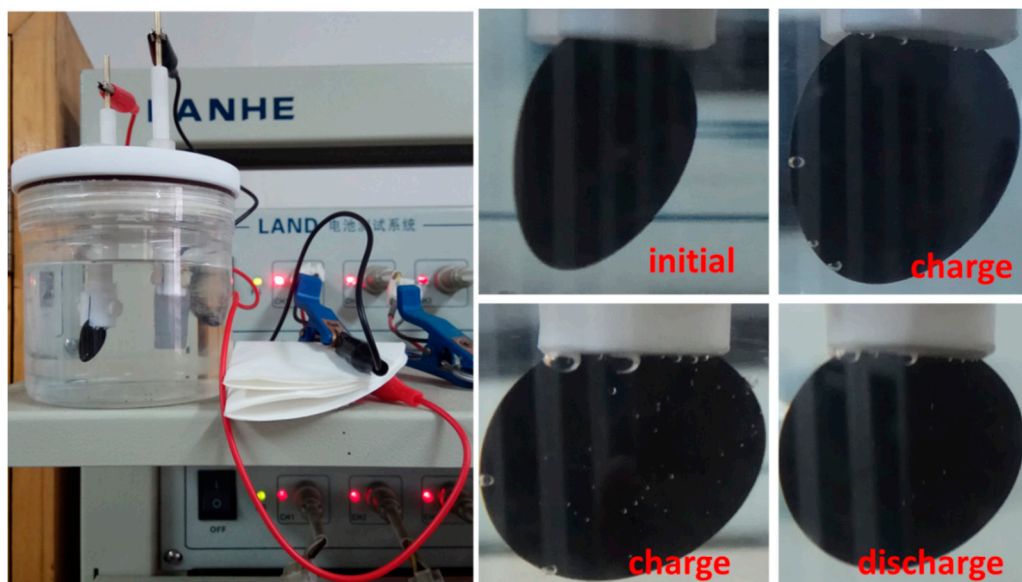


Figure S2 Change of electrode materials during 1st charge and discharge.

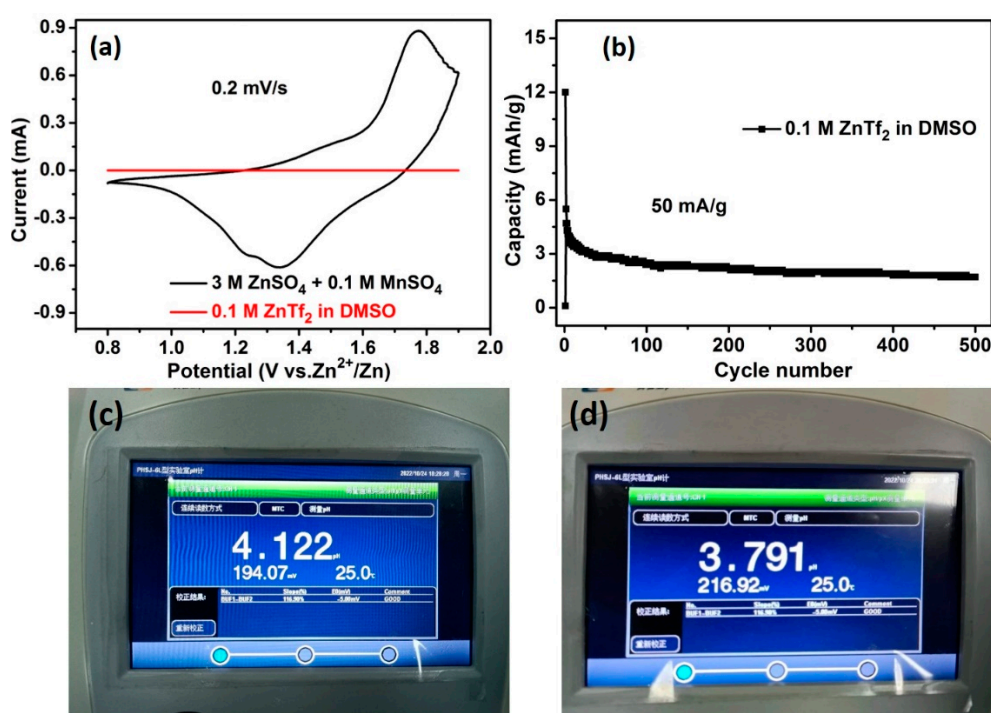


Figure S3. (a) Comparison of CV curves at 0.2 mV s⁻¹ in 3 M ZnSO₄+0.1 M MnSO₄ and 0.1 M ZnTf₂ in DMSO; (b) the cycling performance at 50 mA g⁻¹ in 0.1 M ZnTf₂ in DMSO; (c) the pH value of 3 M ZnSO₄ + 0.1 M MnSO₄; (d) the pH of electrolyte after cycle.

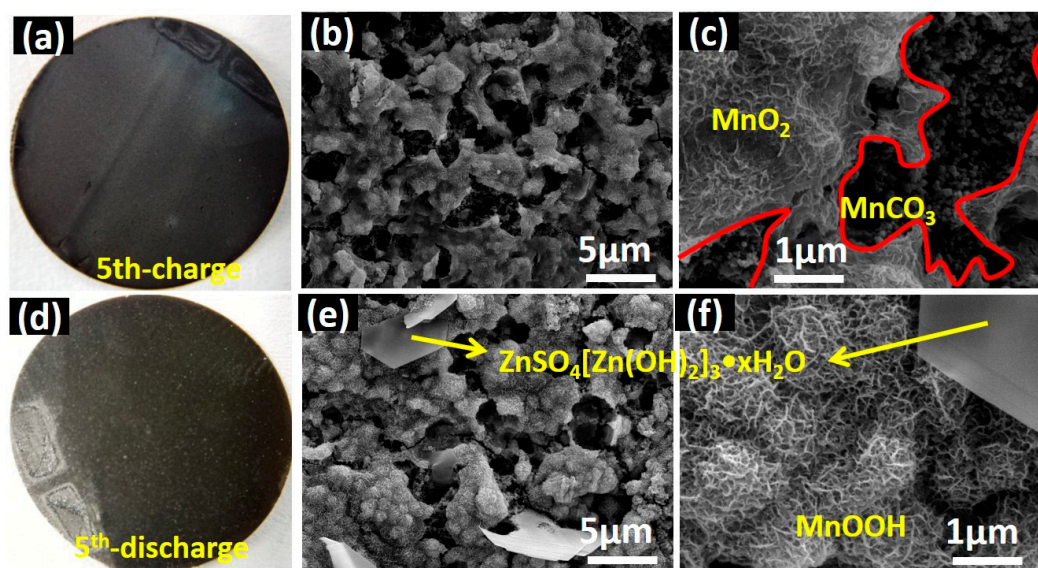


Figure S4. Change of electrode materials during 5th charge and discharge. (a) Image of 5th charge MnCO₃ electrode; (b-c) SEM of MnCO₃ electrode after 5th-charge; (d) Image of 5th discharge MnCO₃ electrode; (e-f) SEM of MnCO₃ electrode after 5th-discharge.

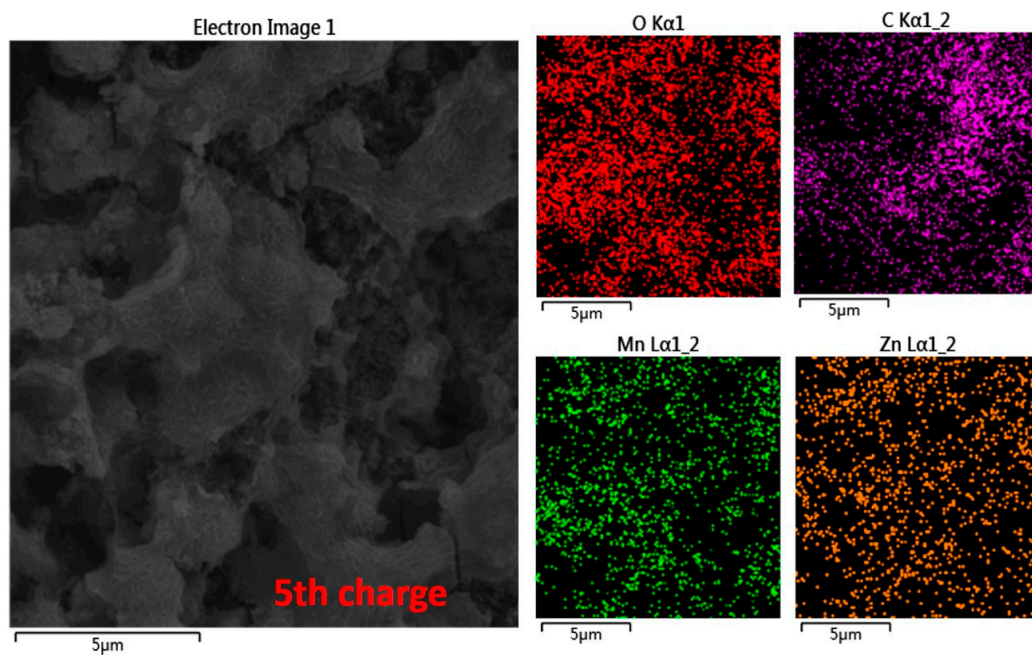


Figure S5. EDS of 5th charge corresponding to MnCO₃ electrode.

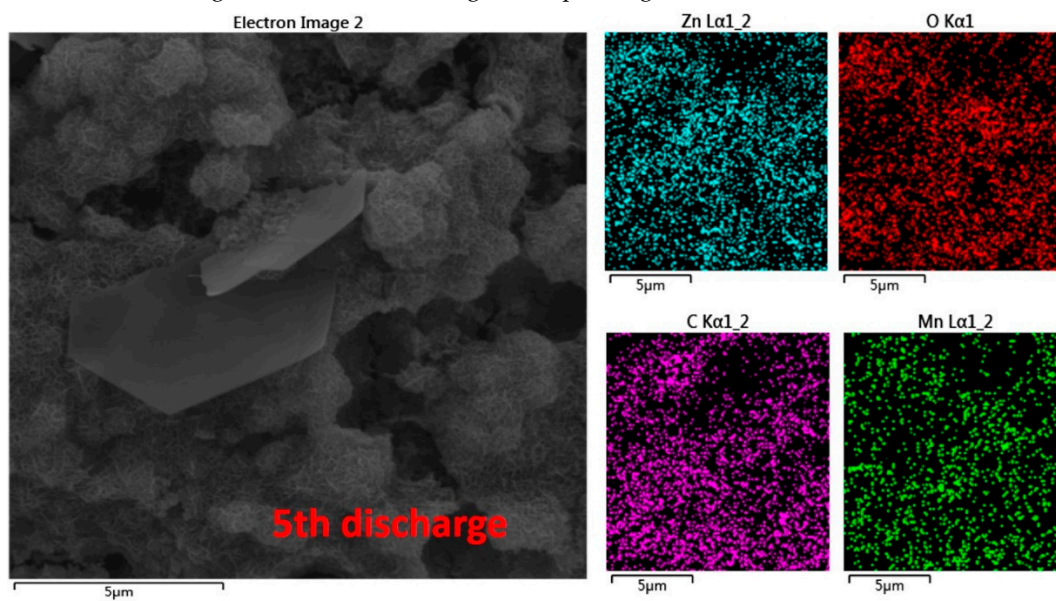


Figure S6. EDS of 5th discharge corresponding to MnCO₃ electrode.