

Supporting Information

Flexible and stable N-isopropylacrylamide/sodium alginate gel electrolytes for aqueous Zn-MnO₂ batteries

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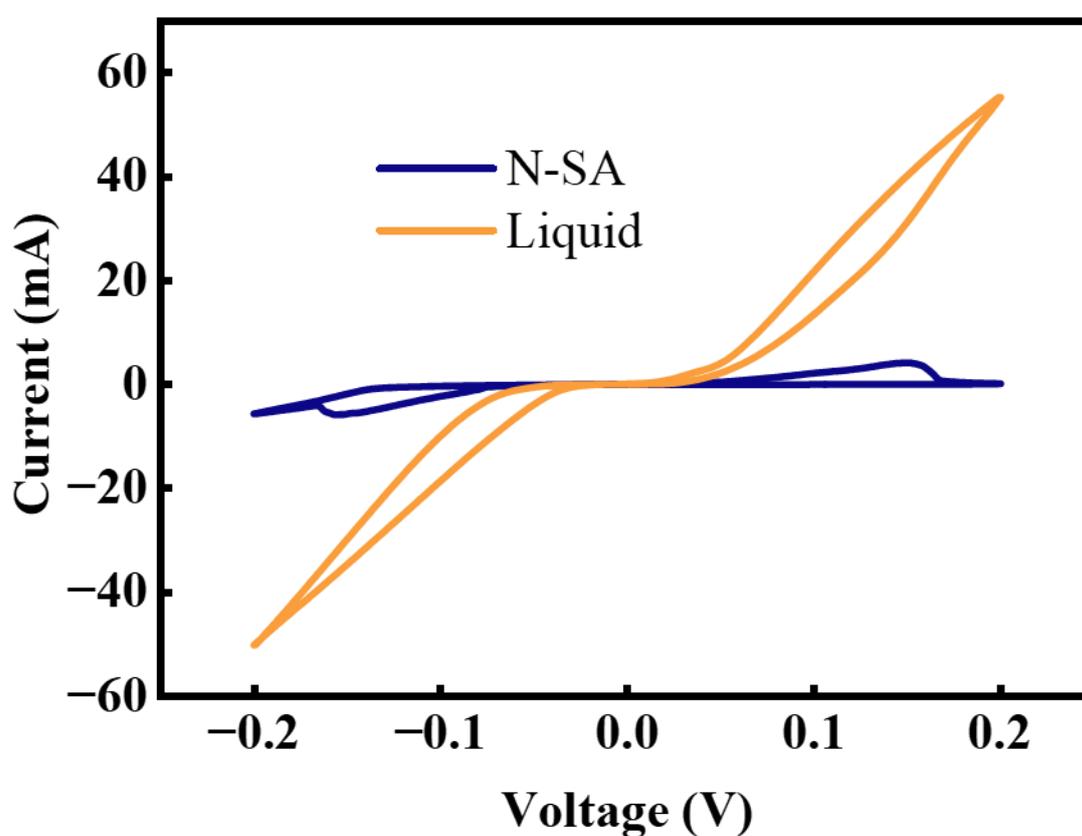


Figure S1. CV curves of symmetrical cells of the N-SA gel electrolyte and liquid electrolyte at 1 mV s^{-1} .

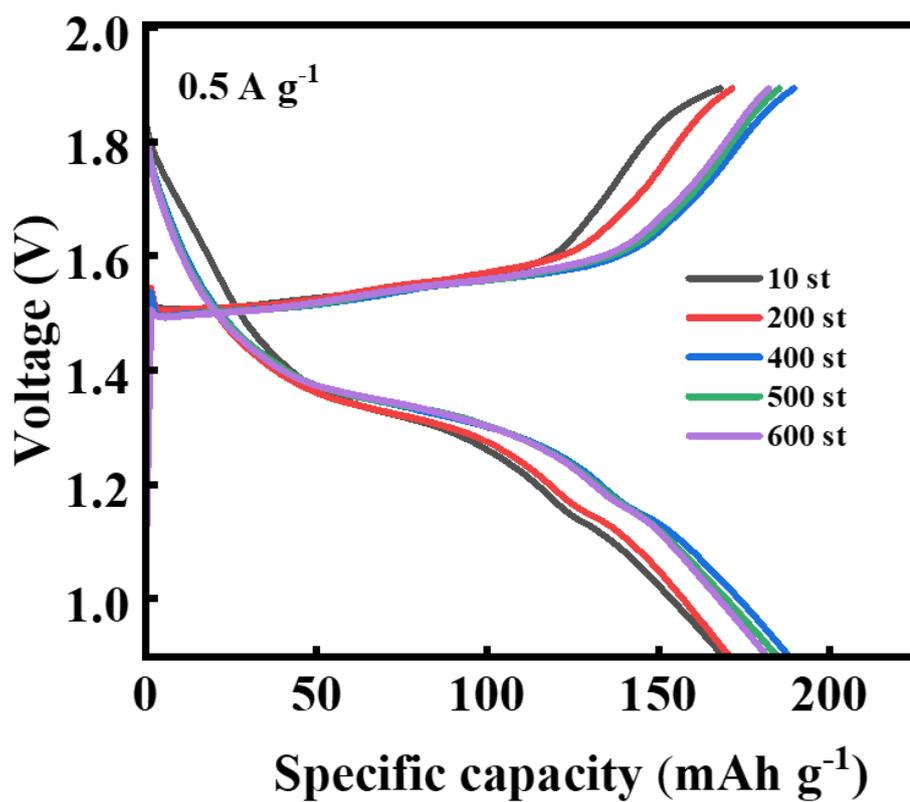
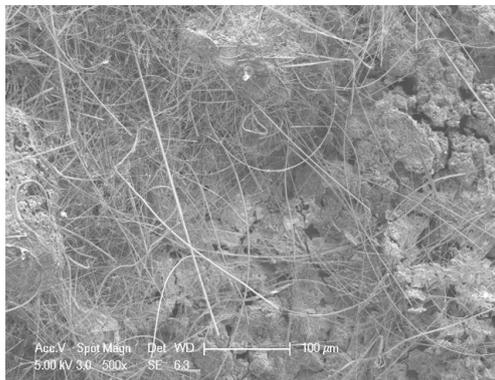


Figure S2. Discharge/charge profiles of Zn/MnO₂ cells with the N-SA hydrogel electrolyte at different cycles.

a



b

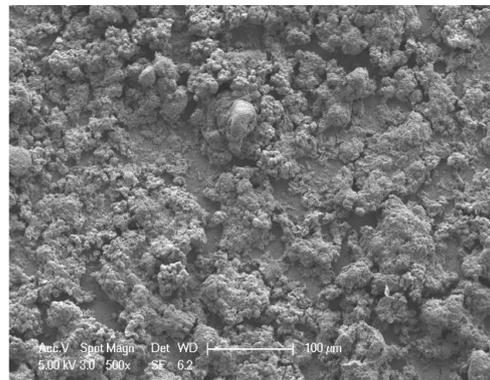
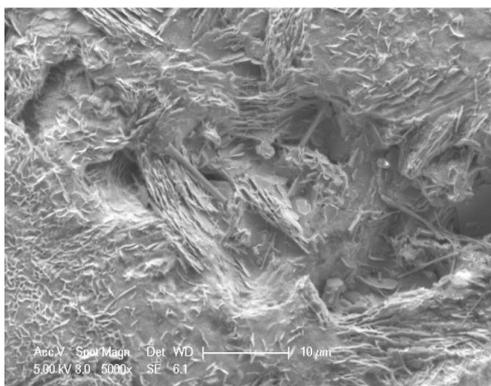


Figure S3. The SEM images of the positive electrodes collected from the cells with the liquid electrolyte (a) and N-SA hydrogel electrolyte (b) at 0.5 A g^{-1} after 300 cycles.

a



b

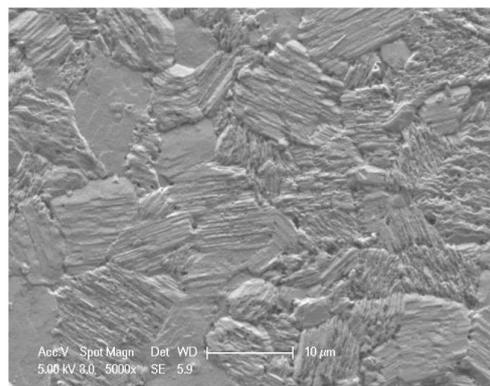


Figure S4. The SEM images of the Zn negative electrodes collected from the cells with the liquid electrolyte (a) and N-SA hydrogel electrolyte (b) at 0.5 A g^{-1} after 500 cycles.