

Supporting Information

A flexible, electrochromic, rechargeable Zn-ion battery based on actiniae-like self-doped polyaniline cathode

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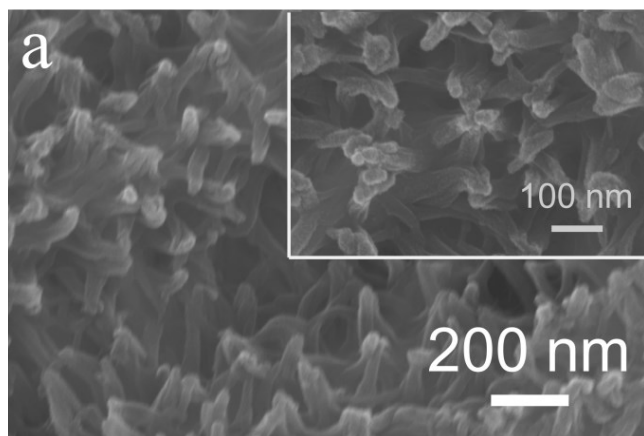


Fig. S1 Surface SEM image of NPANI film.

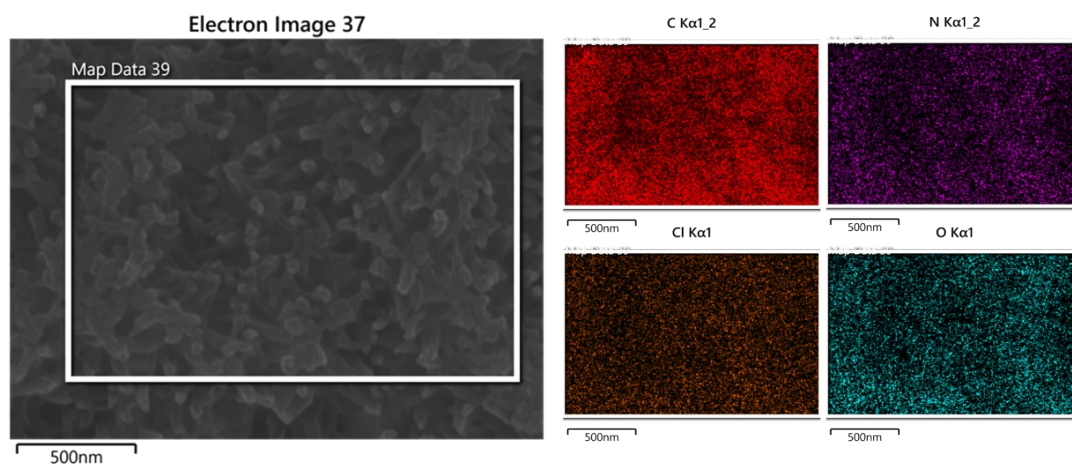


Fig. S2 EDS mapping of NPANI film.

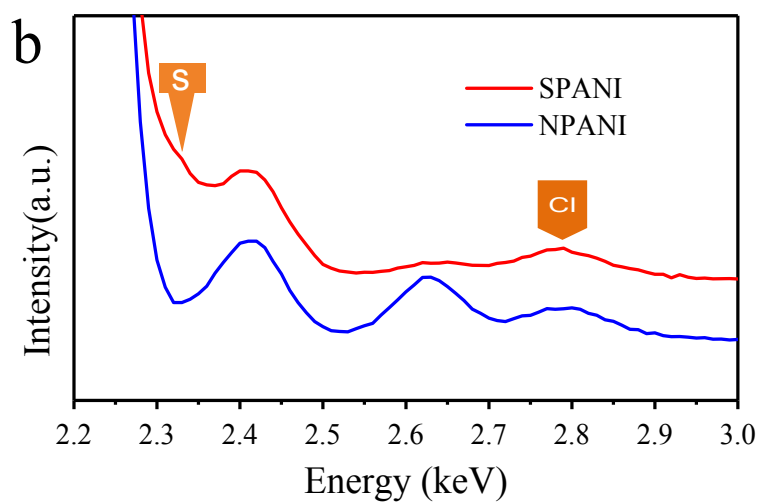
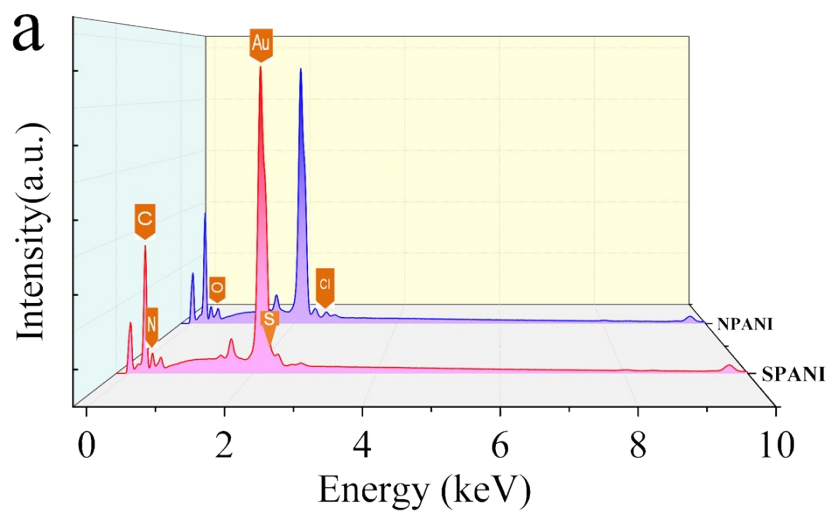
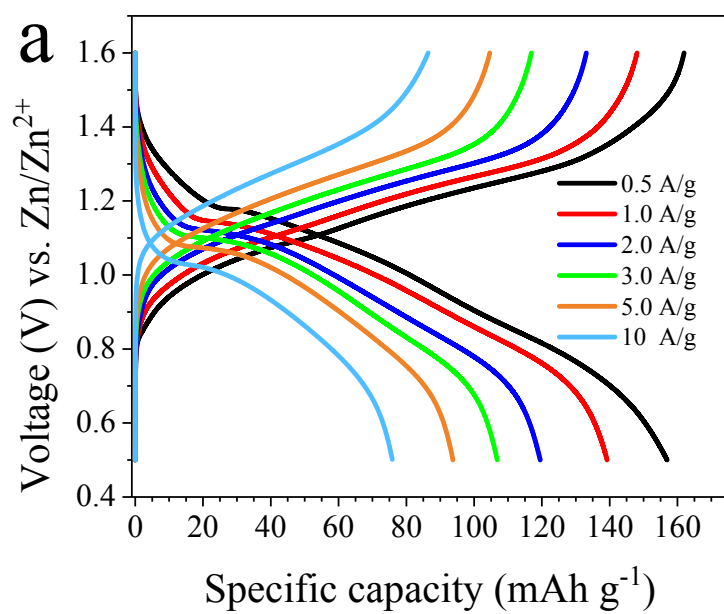


Fig. S3 (a) and (b) EDS spectrum of SPANI and NPANI film.



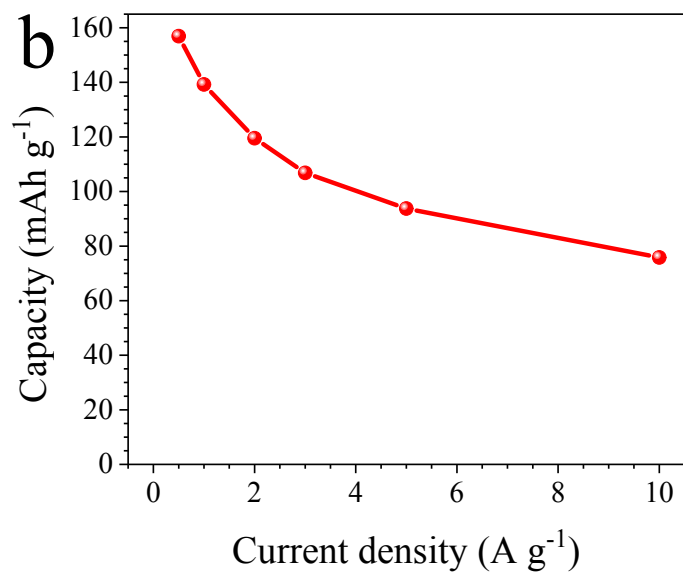


Fig. S4 (a) Galvanostatic discharge-charge profiles of the EC-ZIB obtained based NPANI cathode at different current densities. (b) specific capacity versus current density based NPANI cathode

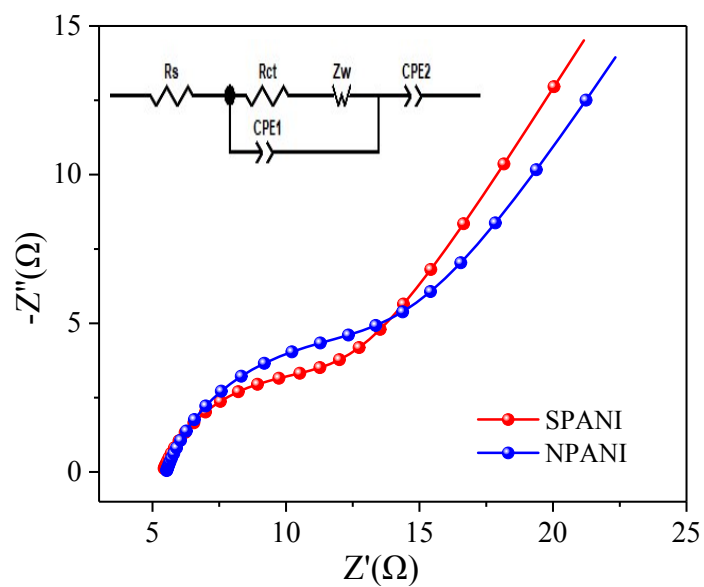


Fig. S5 Fitted Nyquist plot and the equivalent circuit of the EC-ZIB;

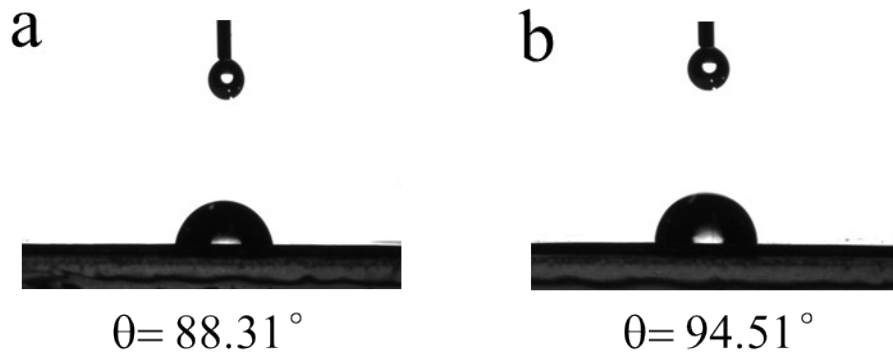


Fig. S6 Water contact angle: (a) SPANI; (b)NPANI

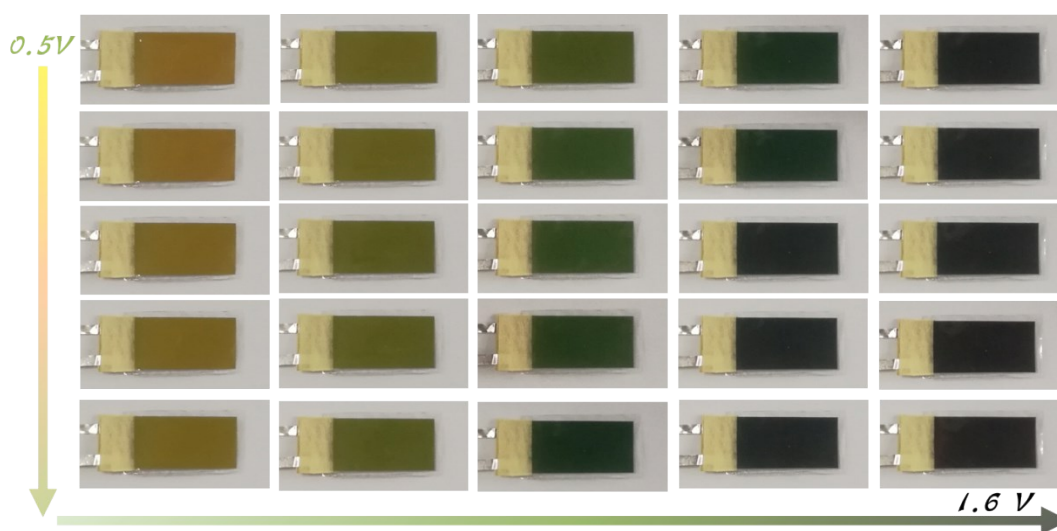


Fig. S7 Real image of the all-in-one EC-ZIB at different voltages.

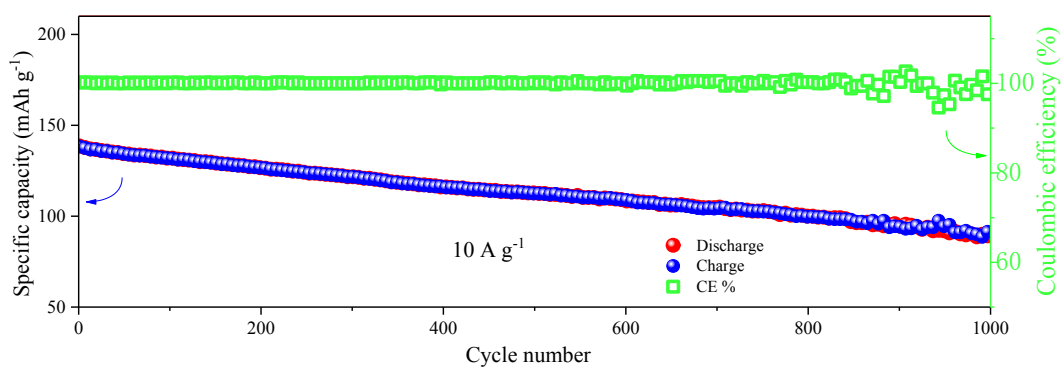


Fig. S8 Cycling stability of the SPANI based EC-ZIB under nearly 150° bending conditions.