

Supporting Information For

High capacity and rate capability of 4d layered Li_2RuO_3 cathode utilized in the hybrid Na^+/Li^+ batteries

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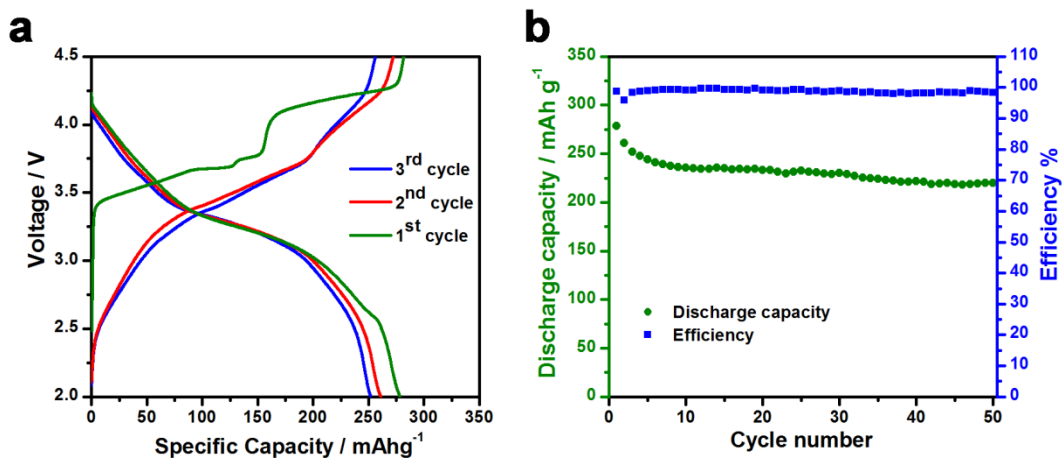


Fig. S1 Galvanostatic charge-discharge profiles of Li_2RuO_3 in the LHC for the first three cycles in the voltage region of 2.0 - 4.5 V at the current density of 0.1 A g^{-1} (a); its corresponding cycle performance and coulombic efficiency for 50 cycles (b).

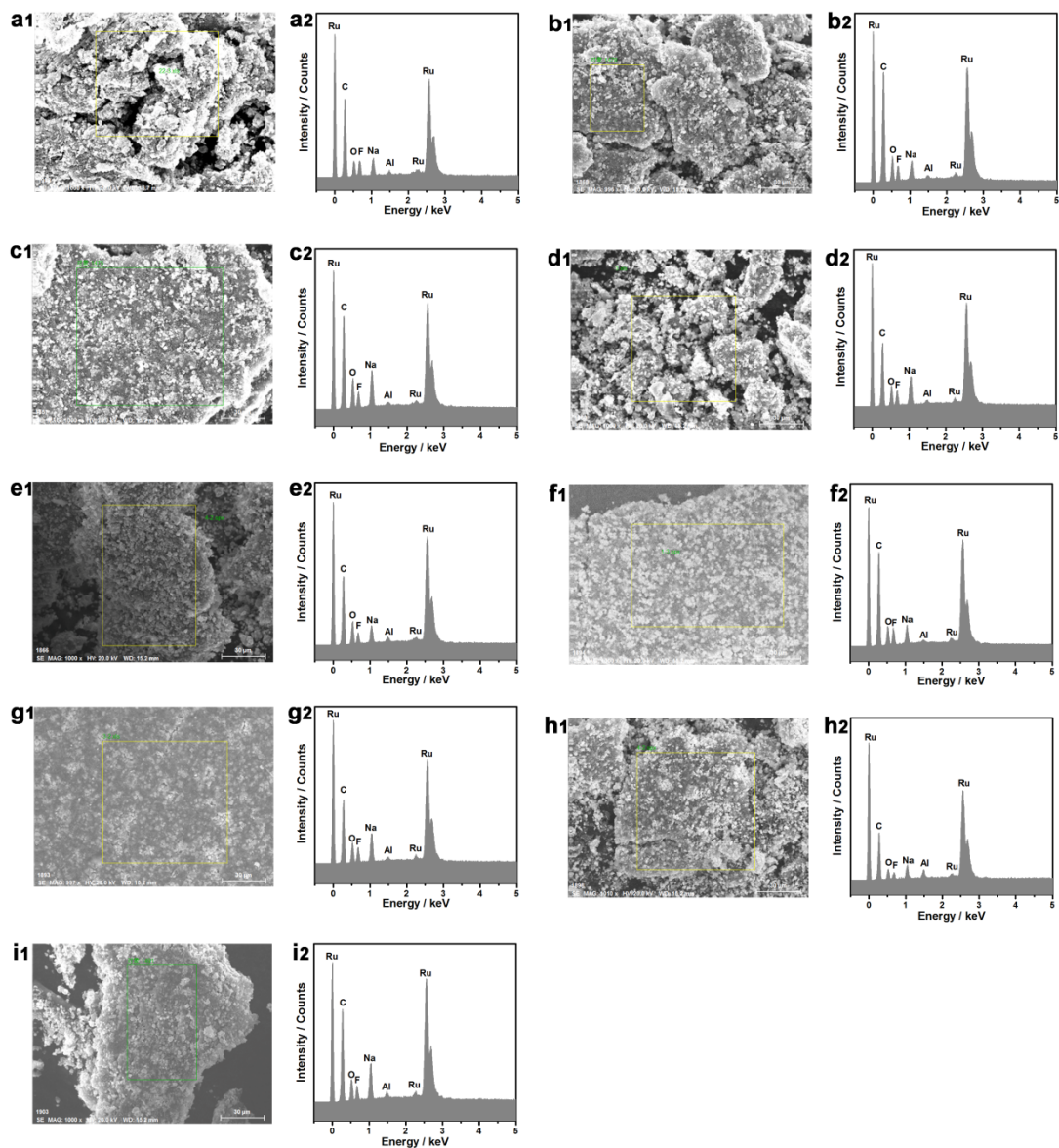


Fig. S2 EDX spectra of Li_2RuO_3 after different cycling. Before cycling (a), 1st charge to 4.0V (b), 1st discharge to 2.0V (c), 2nd charge to 4.0V (d), 2nd discharge to 2.0V (e), 10th charge to 4.0V (f), 10th discharge to 2.0V (g), 11th charge to 4.0V (h), 11th discharge to 2.0V (i)

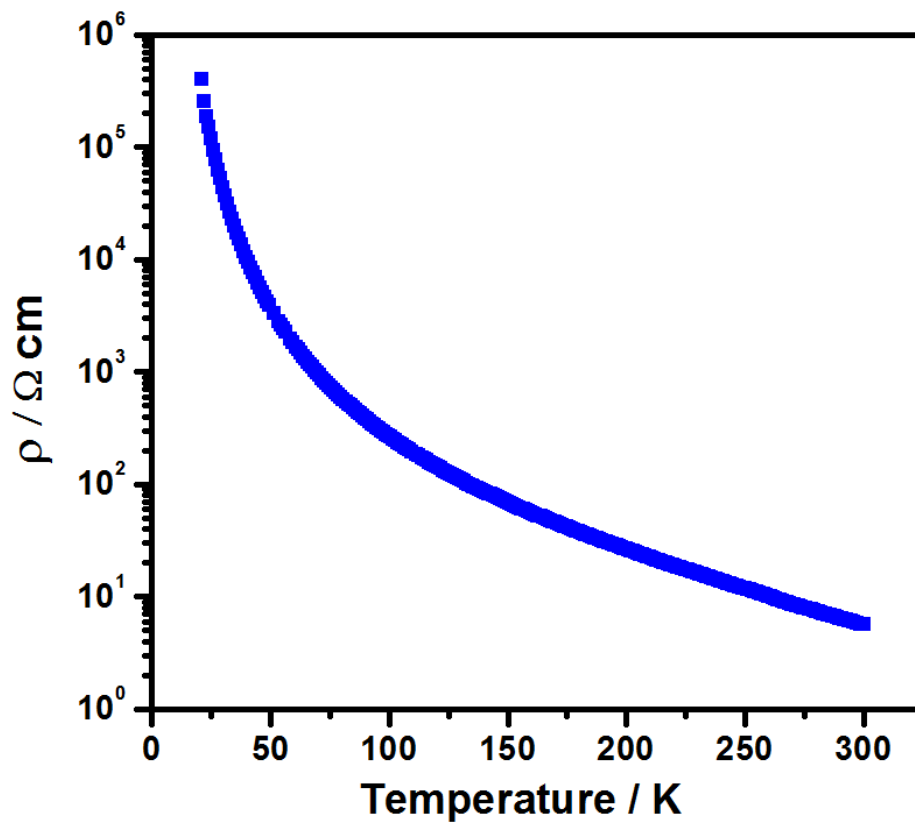


Fig. S3 Temperature dependence of resistivity for Li_2RuO_3 .

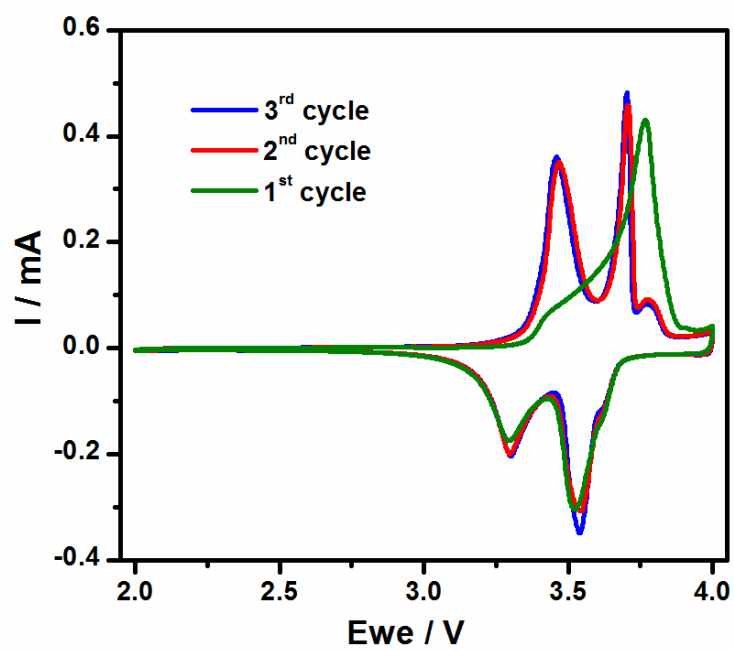


Fig. S4 Cyclic voltammograms of Li_2RuO_3 in LHC at a scan rate of 0.1 mV s^{-1} between 2.0 and 4.0 V vs. Li/Li^+