

Electronic Supplementary Information

Electrochemical studies of high voltage $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ -MWCNT composite through selected stable electrolyte

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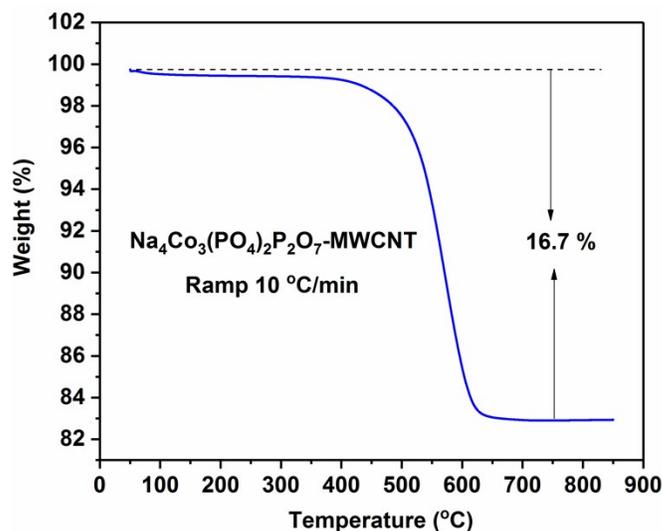


Figure S1. Thermal gravimetric analysis curve for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ -MWCNT composite.

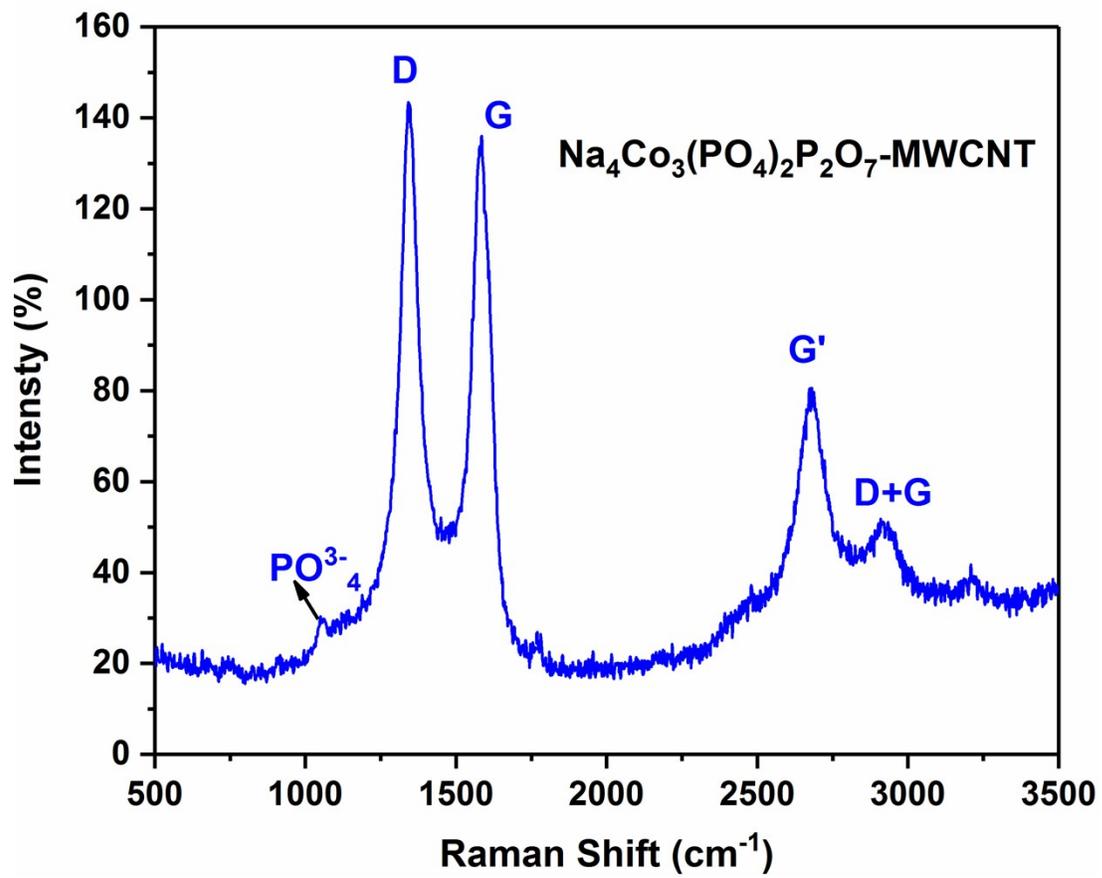


Figure S2. Raman spectra for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7\text{-MWCNT}$ composite.

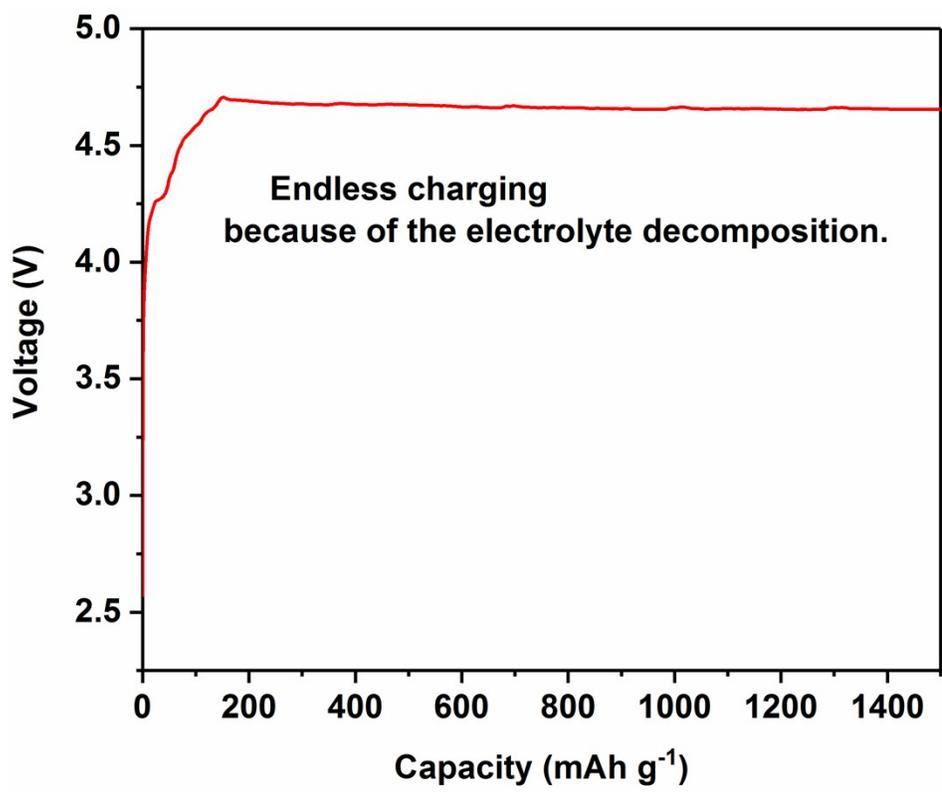


Figure S3. First charging curve for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ -MWCNT composite in 1M NaClO_4 in PC+ 5% FEC electrolyte.

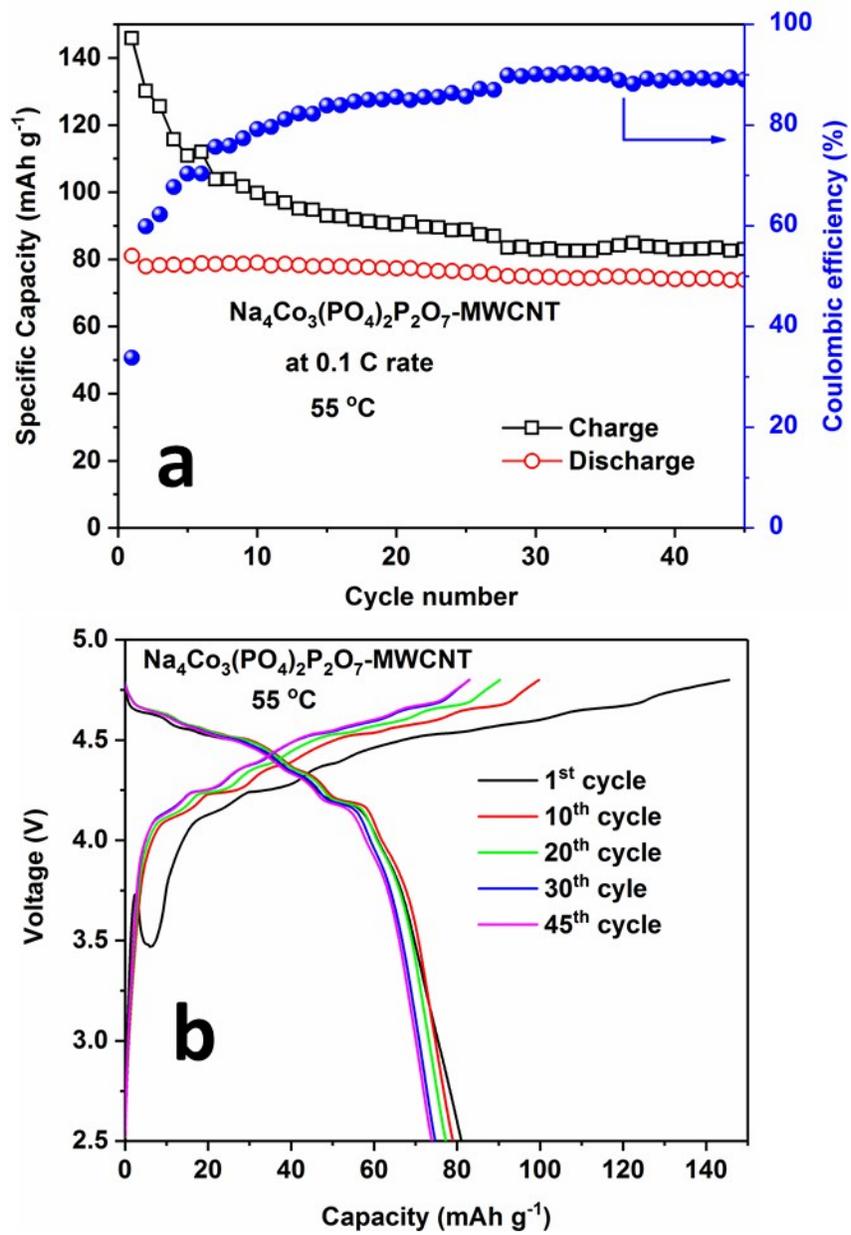


Figure S4. a) Cycleability results and b) Charge –discharge curves for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7\text{-MWCNT}$ composite at 55°C .

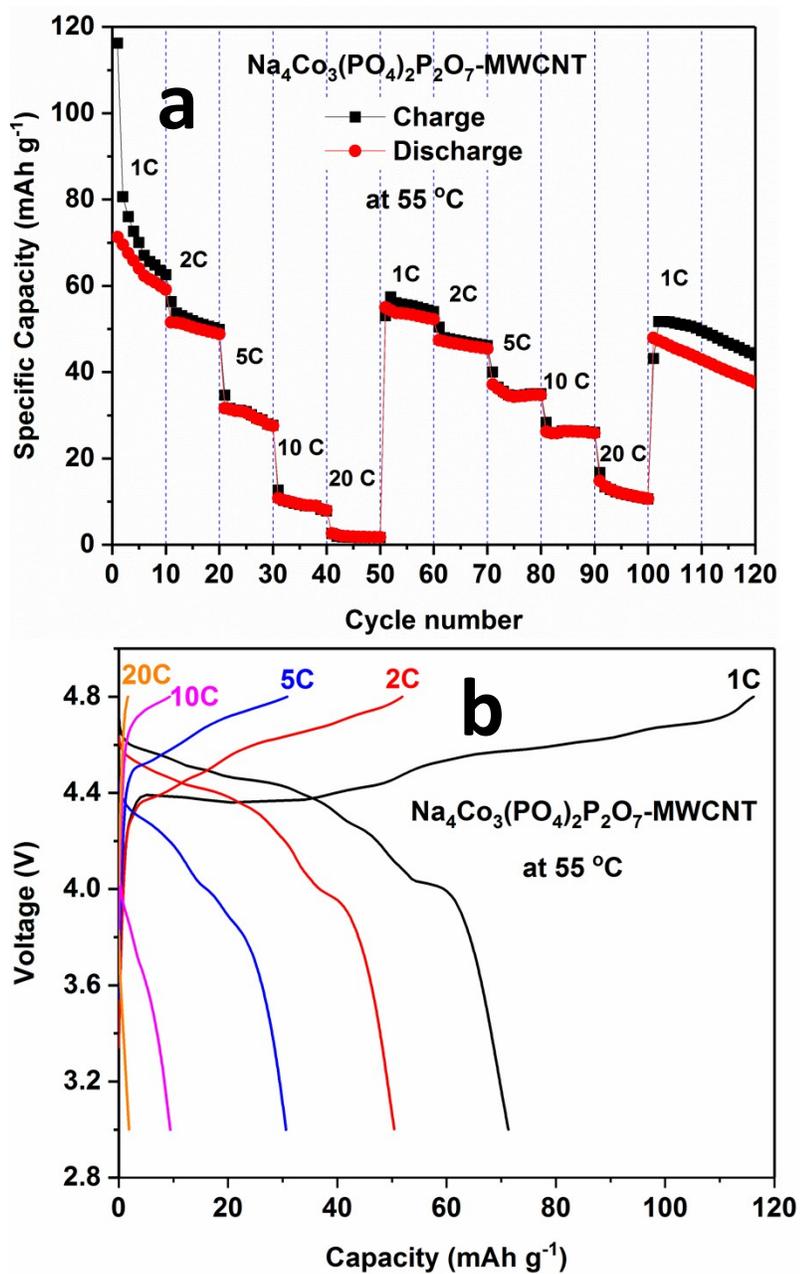


Figure S5.
 Rate
 capability
 results from
 1 C to 20 C

for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7\text{-MWCNT}$ composite at 55°C .

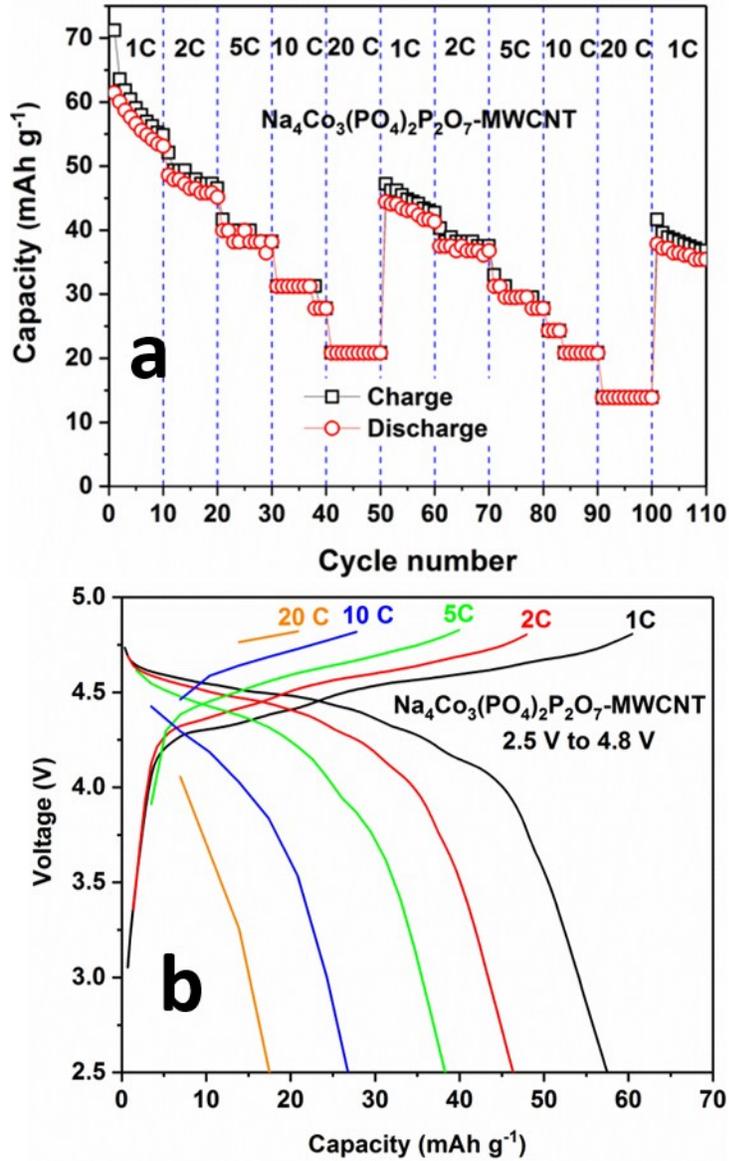


Figure S6. Rate capability results from 1 C to 20 C for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7\text{-MWCNT}$ composite at room temperature.

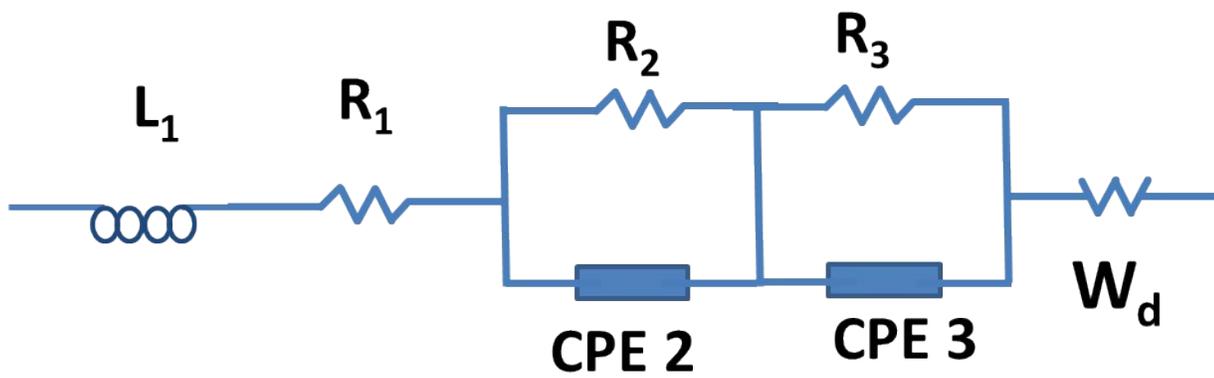


Figure S7: Equivalent electrical circuit model for fitting impedance data.

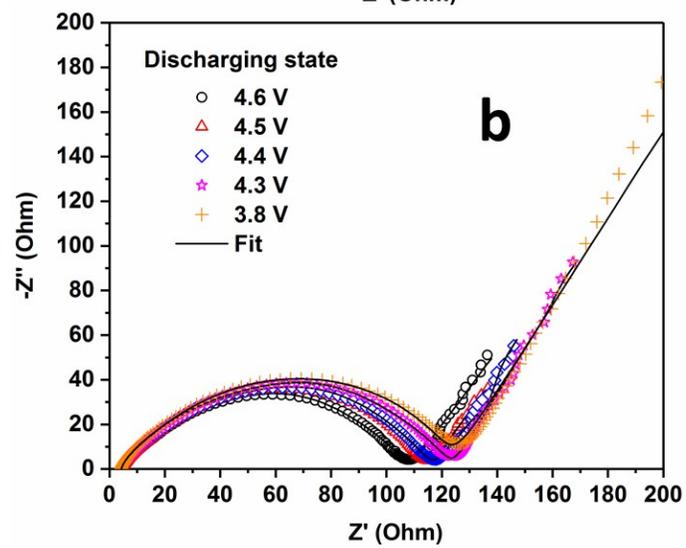
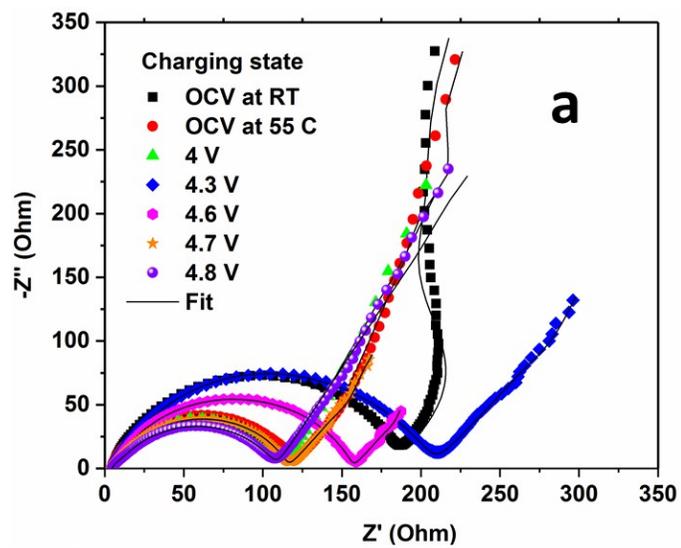


Figure S8. Electrochemical Impedance spectra for the $\text{Na}_4\text{Co}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$ -MWCNT composite electrode during the a) charging and b) discharging states at 55 °C.