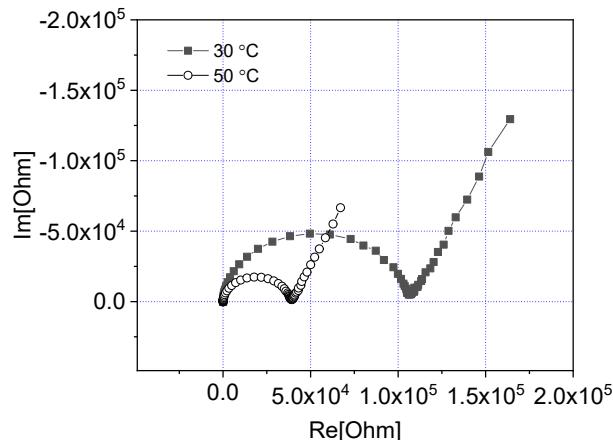
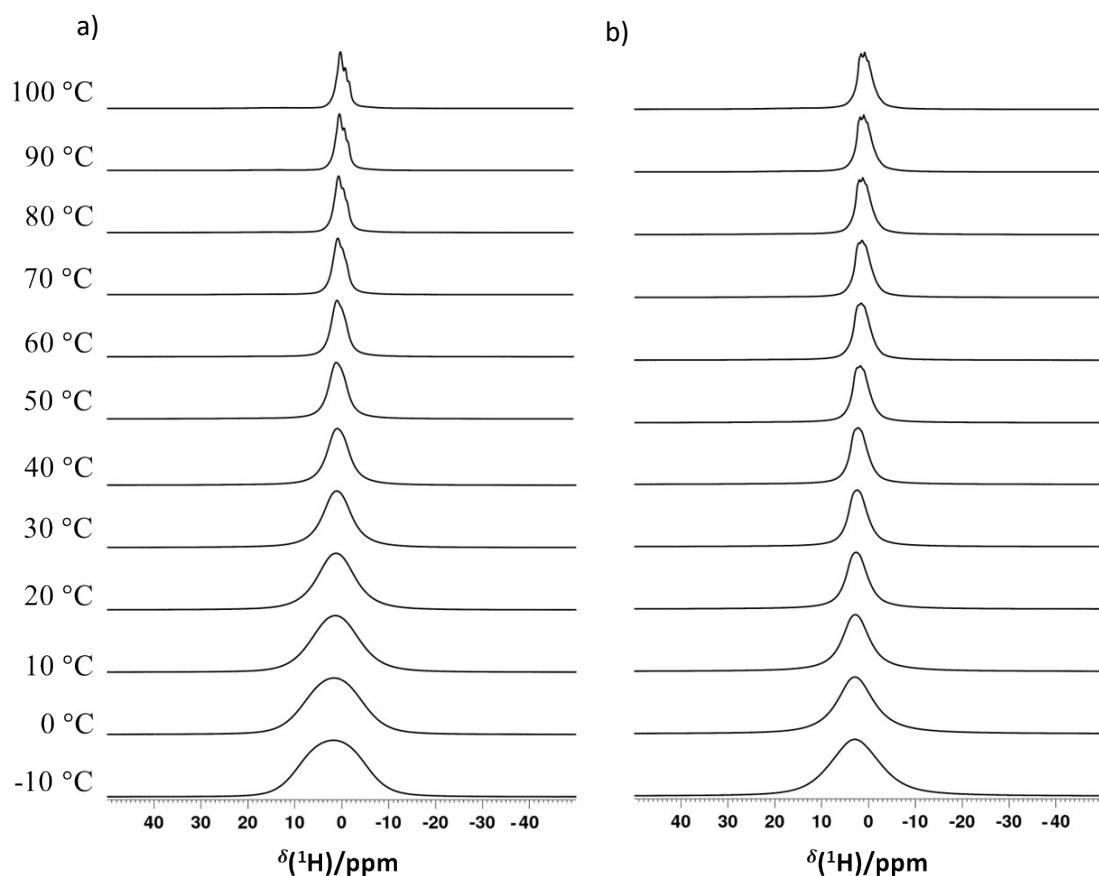


SUPPORTING INFORMATION

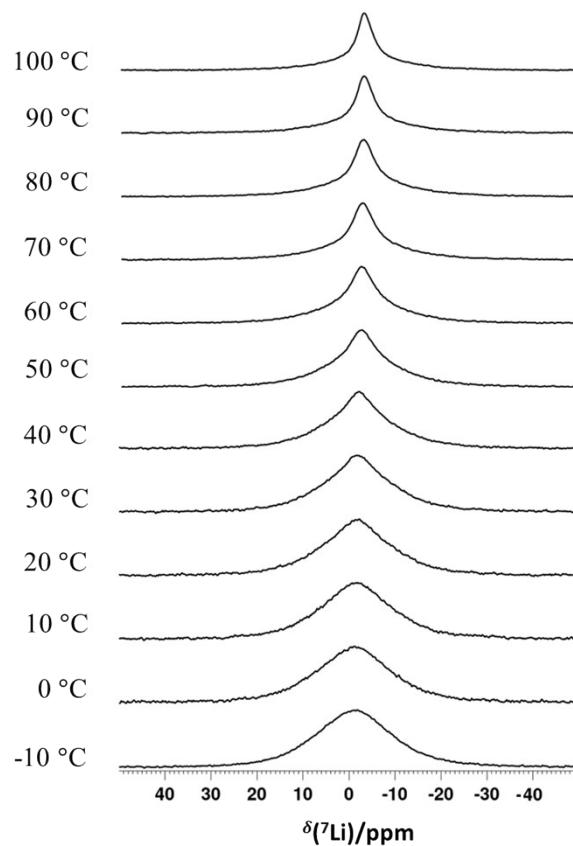
S1 Nyquist plot of EIS spectra of the composite with 20 v% polymer particles as prepared at 30 °C and 50 °C.



S2 Static ^1H NMR with variable temperature experiments of a) C₂mpyrFSI and b) composite with 20v% of polymer nanoparticles (CF-20-NPs).

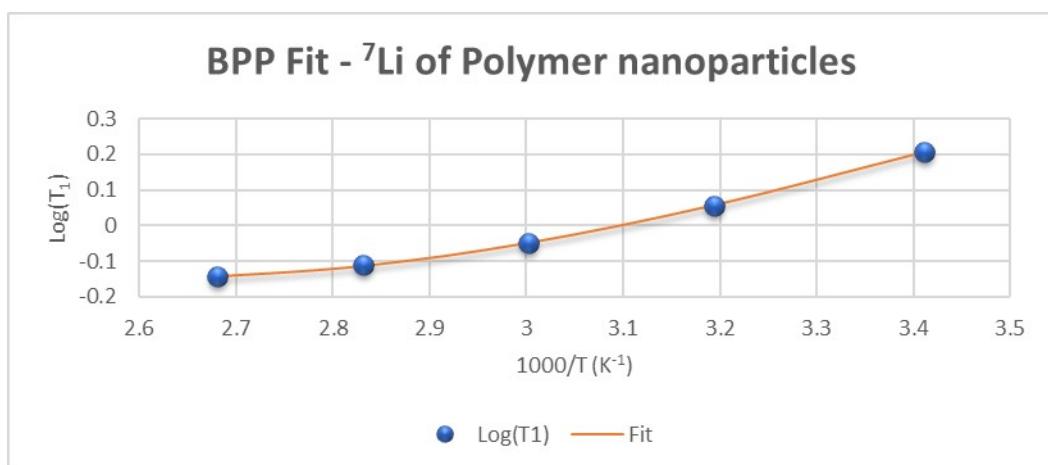


S3 Static ^7Li NMR with variable temperature experiments of the composite with 20 v% of polymer nanoparticles (CF-20-NPs).



S4 ^7Li T_1 -BPP Fit for a) polymer nanoparticles and b) composite with 20 v% of polymer nanoparticles (CF-20-NPs).

a)



b)C

