

Supporting information

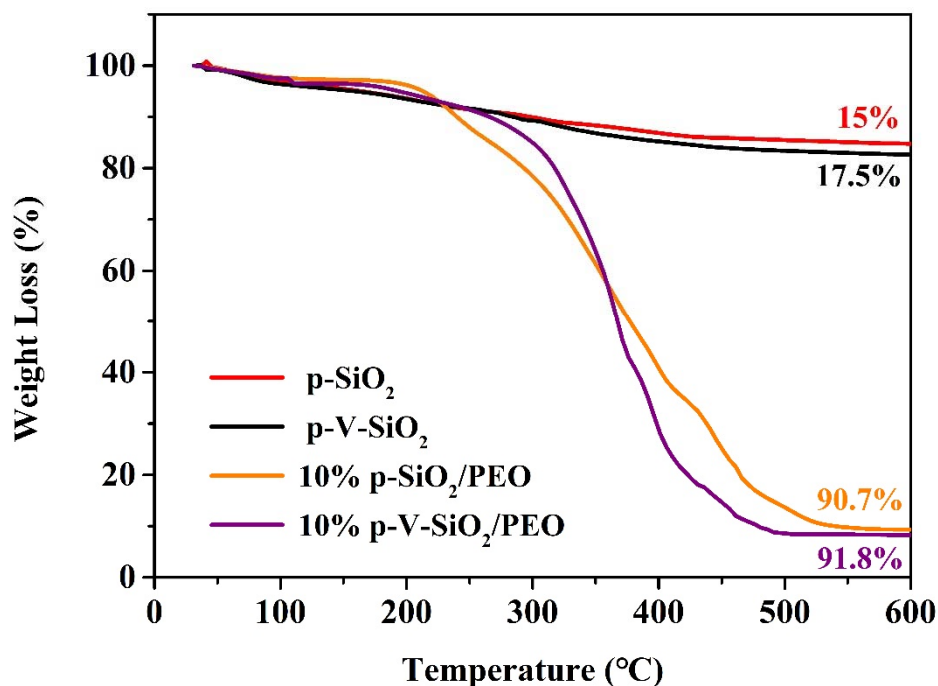


Figure S1. TGA data of p-SiO₂, p-V-SiO₂, 10% p-SiO₂/PEO and 10% p-V-SiO₂/PEO

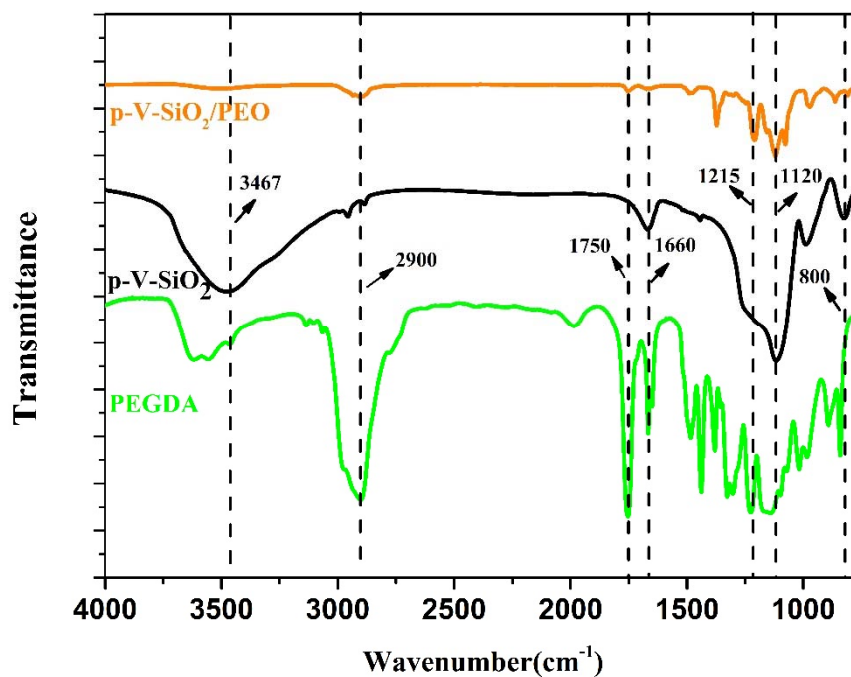


Figure S2. FT-IR spectra of PEGDA, p-V-SiO₂ and 10% p-V-SiO₂/PEO

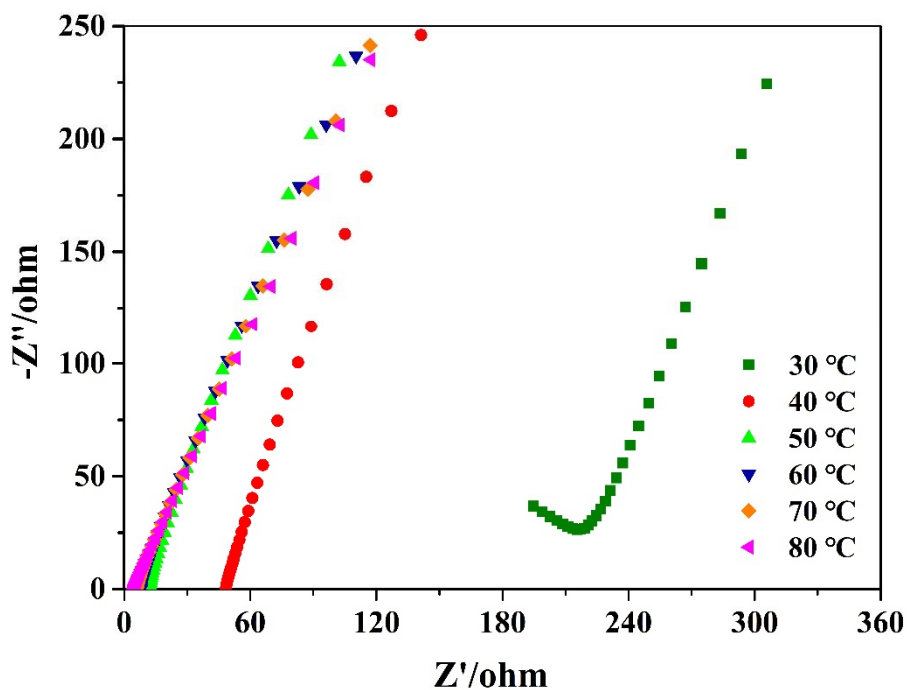


Figure S3. EIS profiles of 10% p-V-SiO₂/PEO CPE at the range of at the range of 30-80 °C.

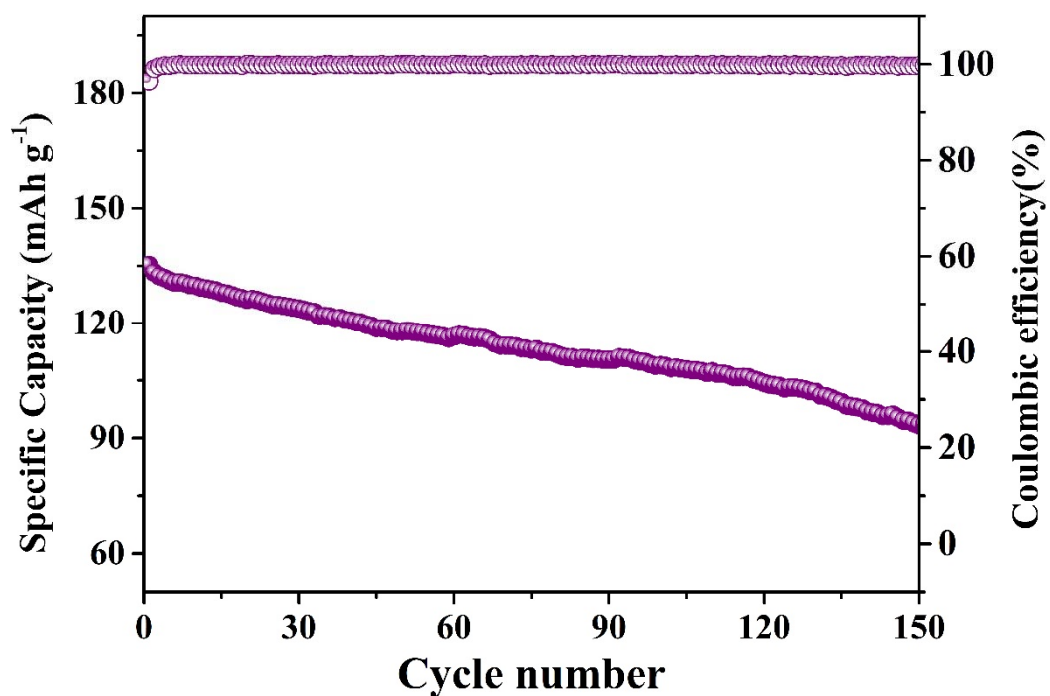


Figure S4: Cycle performance of Li|10% p-V-SiO₂/PEO CPE|LiFP cells at 1 C at 60 °C.