

Supporting Information

PFAS-free quasi-solid polymer electrolytes with enhanced performance for sustainable lithium-ion batteries

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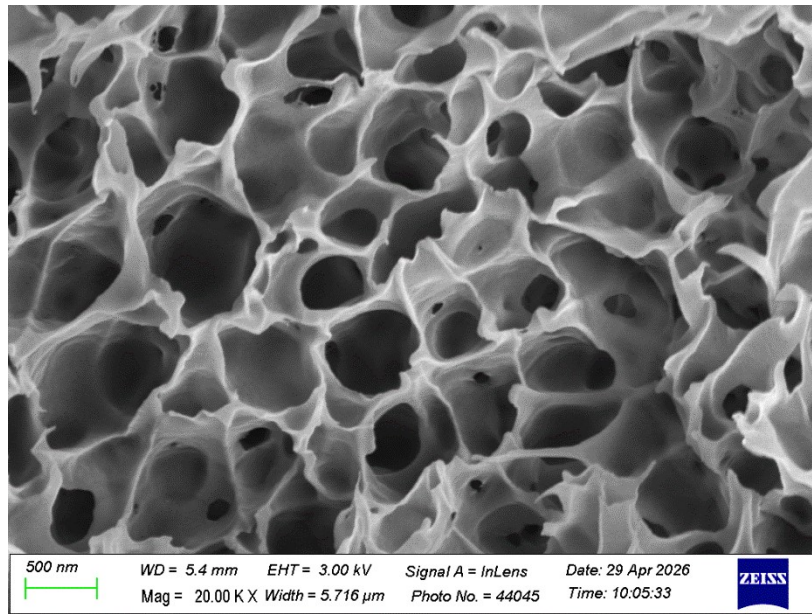


Figure S1. SEM images of cross-sections of PES membranes at higher magnification.

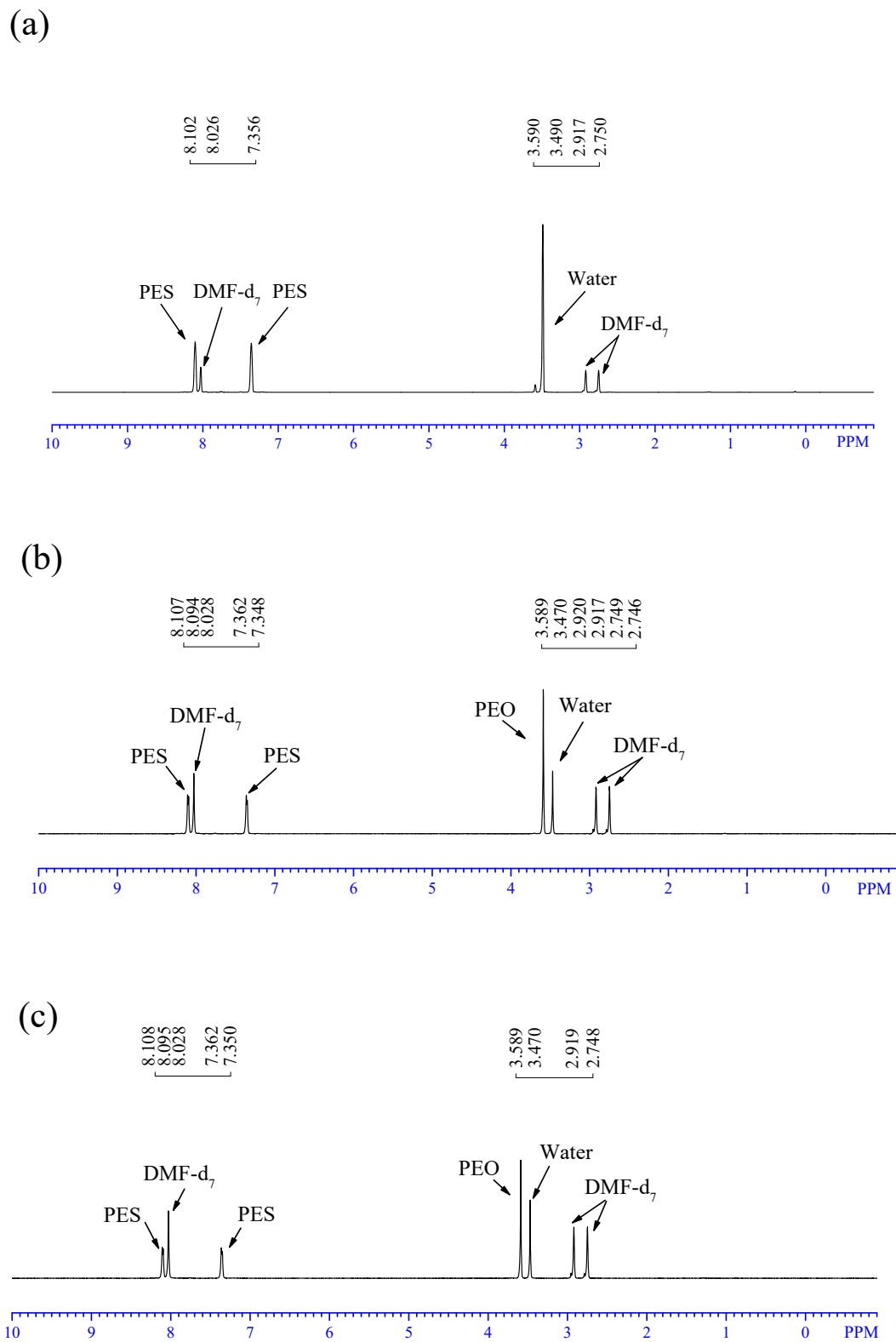


Figure S2. ^1H NMR spectra of the prepared (a) PES, (b) PES/PEO (14/10), and (c) PES/PEO (14/18)

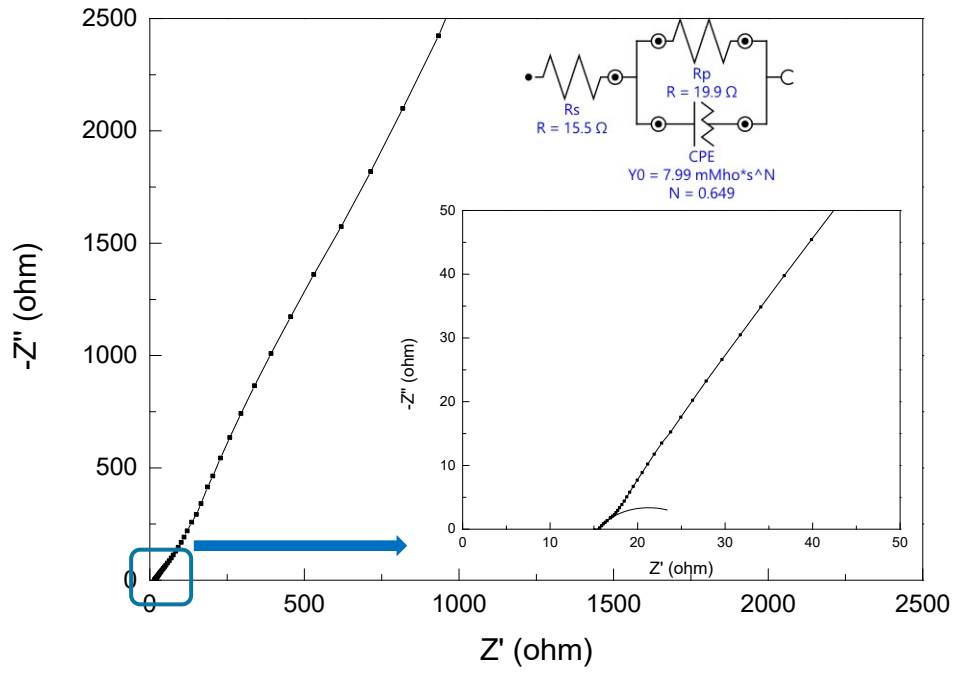


Figure S3. Fitted EIS spectra and the corresponding equivalent circuit diagrams of PES QSPEs at room temperature.

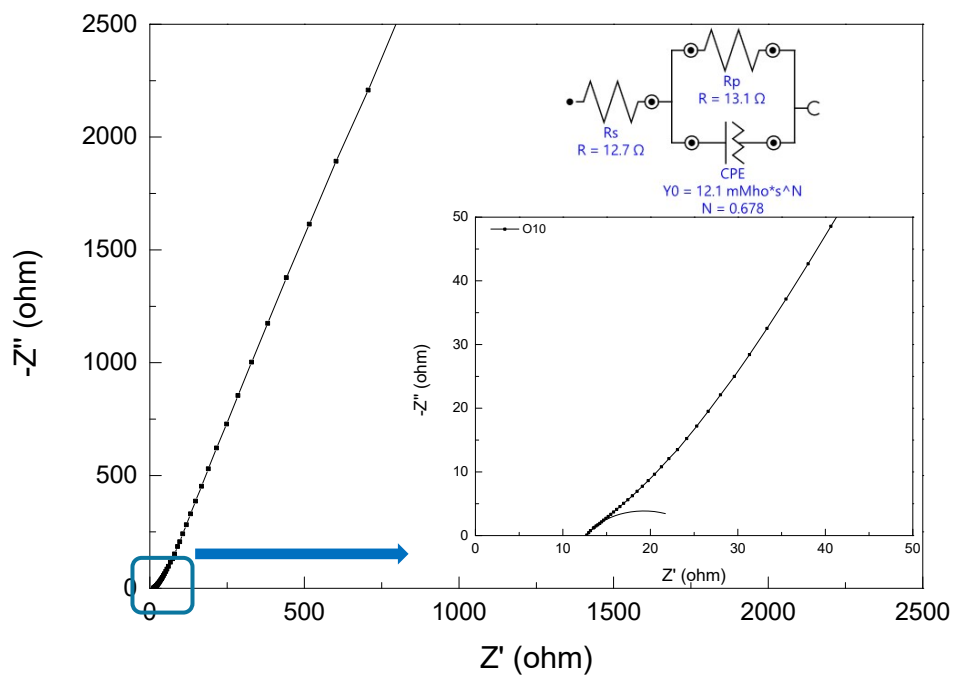


Figure S4. Fitted EIS spectra and the corresponding equivalent circuit diagrams of PES/PEO (14/10) QSPEs at room temperature.

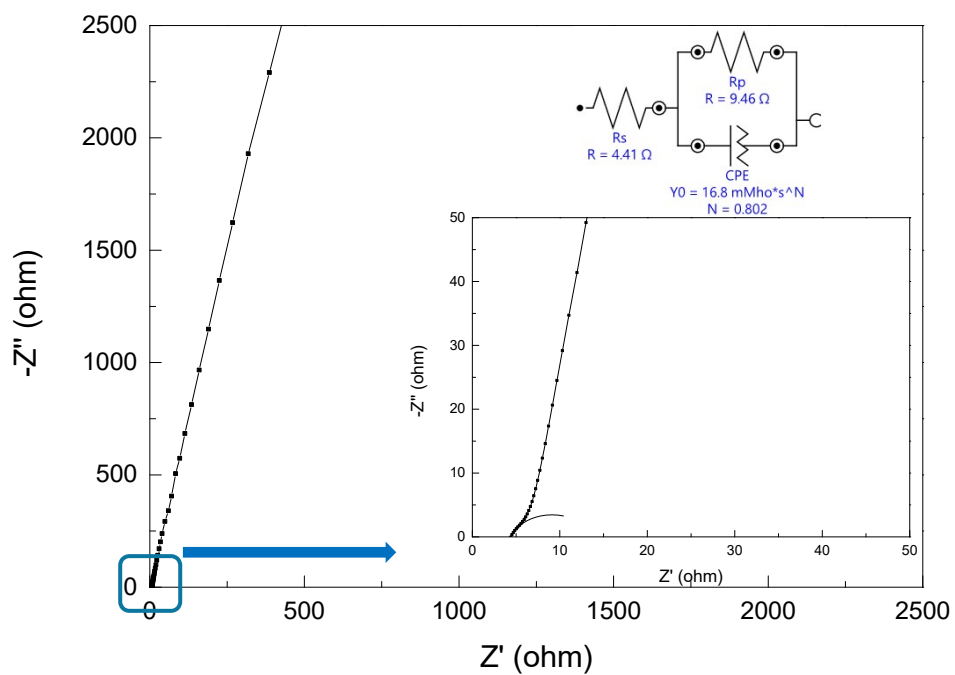


Figure S5. Fitted EIS spectra and the corresponding equivalent circuit diagrams of PES/PEO (14/18) QSPEs at room temperature.

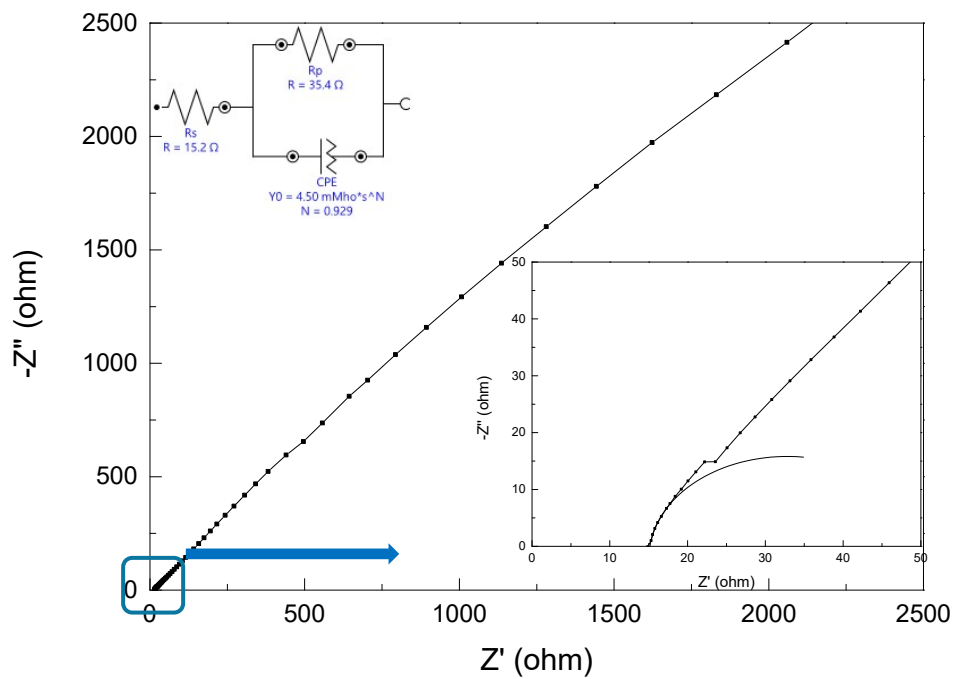


Figure S6. Fitted EIS spectra and the corresponding equivalent circuit diagrams of Celgard 2325 at room temperature.