

Electronic Supporting Information

Cross-linked Sulfonated Poly(ether imide)/silica Organic–inorganic Hybrid

Materials: Proton Exchange Membrane Properties

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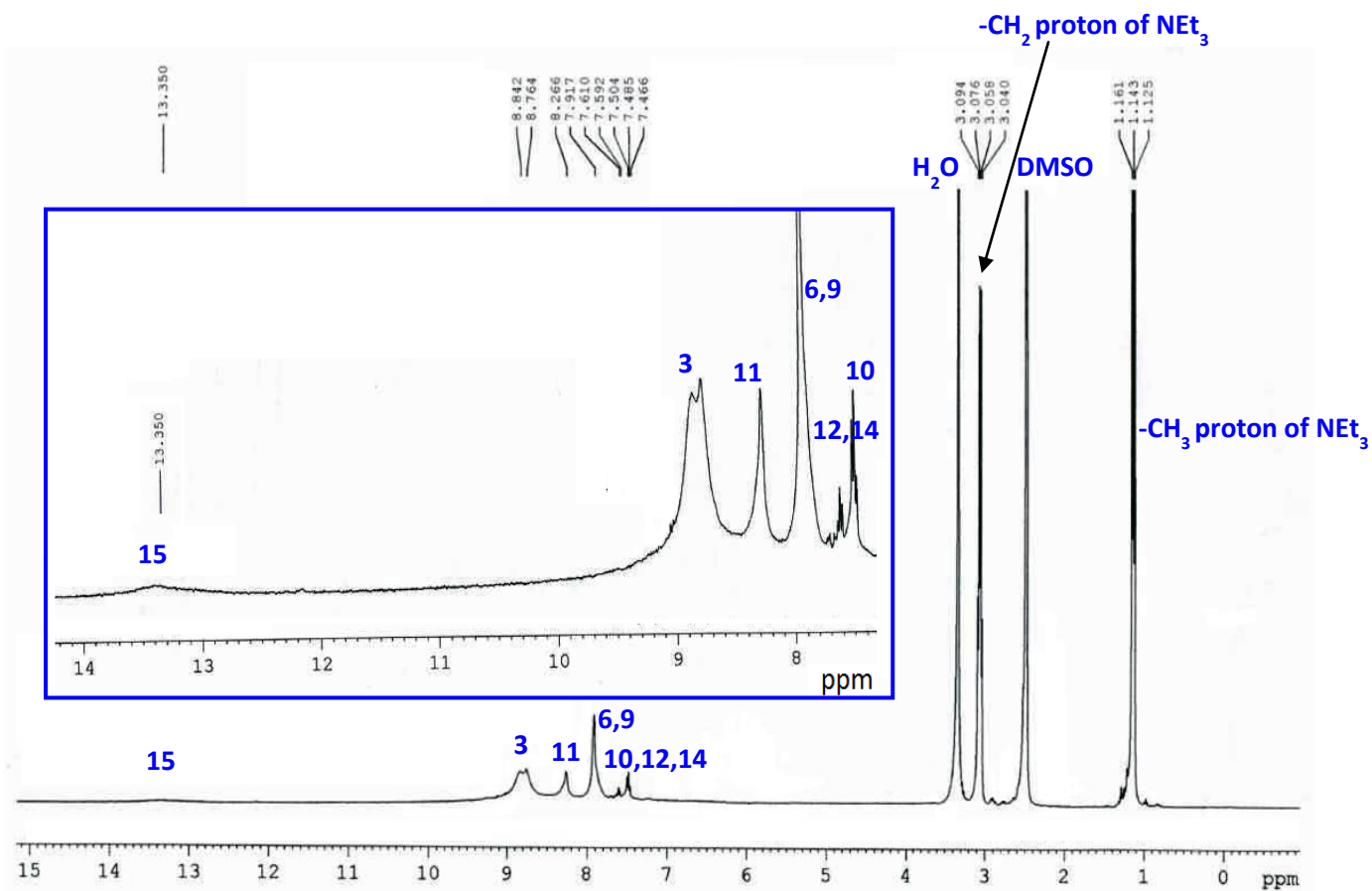
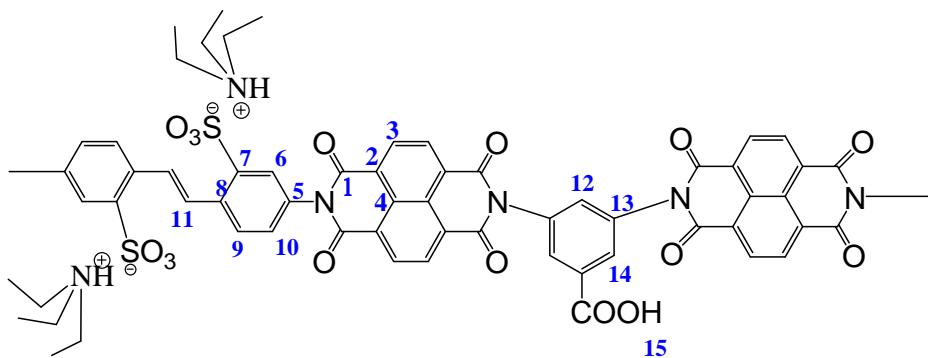


Figure S1. $^1\text{H-NMR}$ spectrum of DDN-70 (model compound)

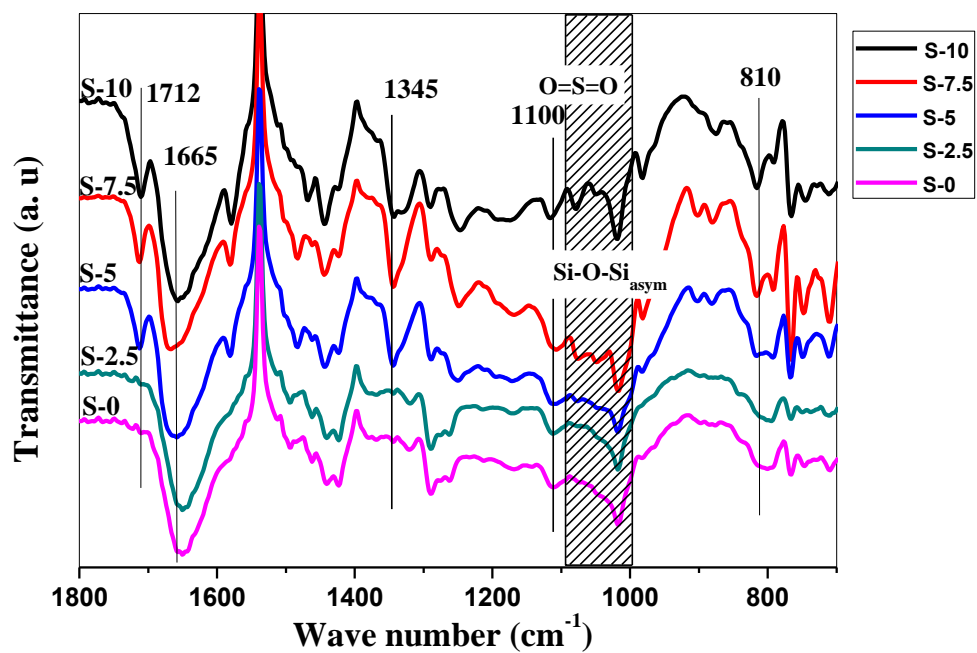


Figure S2. FT-IR spectra of the SPI/S-X membranes

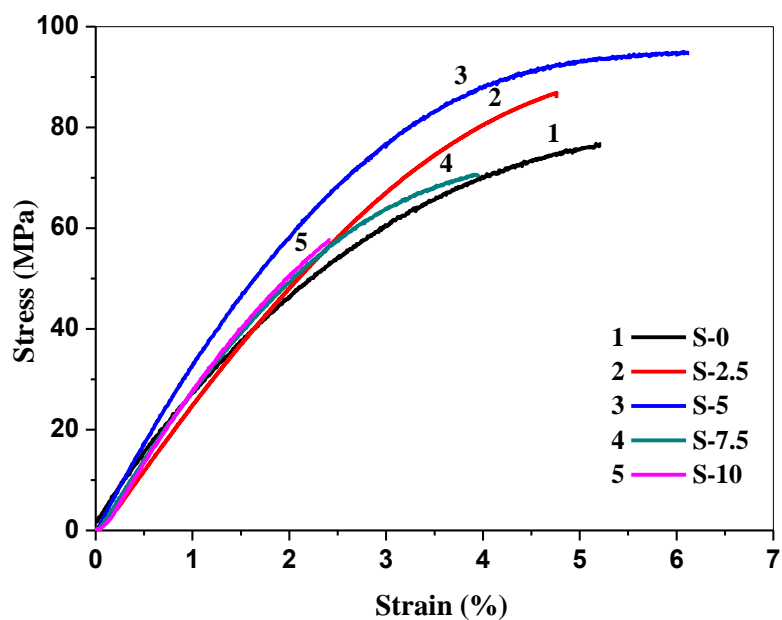


Figure S3. Stress–strain plot of the SPI/S-X membranes.

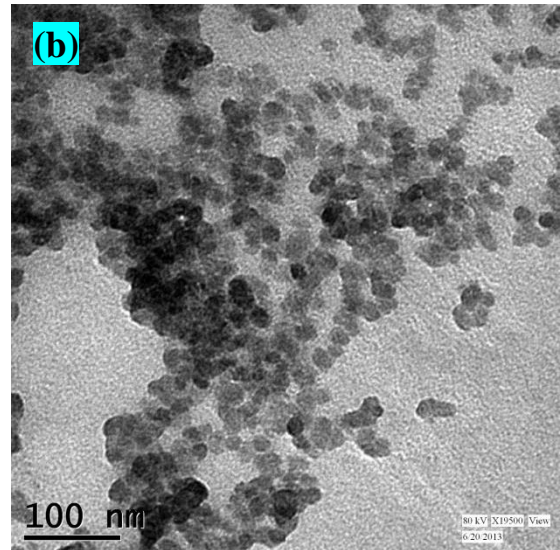
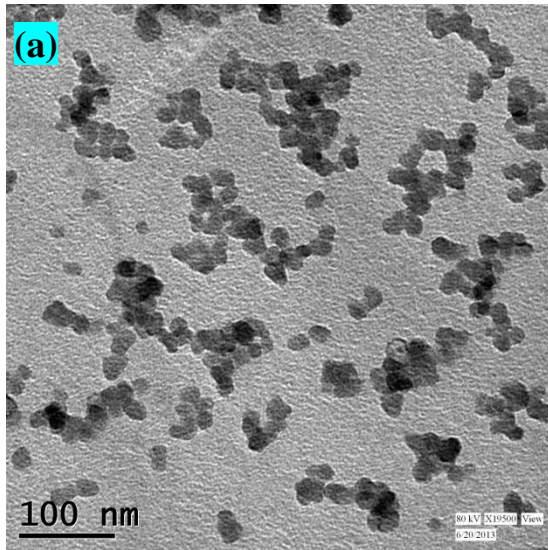


Figure S4. TEM images of the SPI/silica solution in DMSO (a) SPI/S-5; (b) SPI/S-10.