

Supporting Information

Alkaline Stable Anion Exchange Membranes Based on Poly(phenylene-co-arylene ether ketone) Backbones

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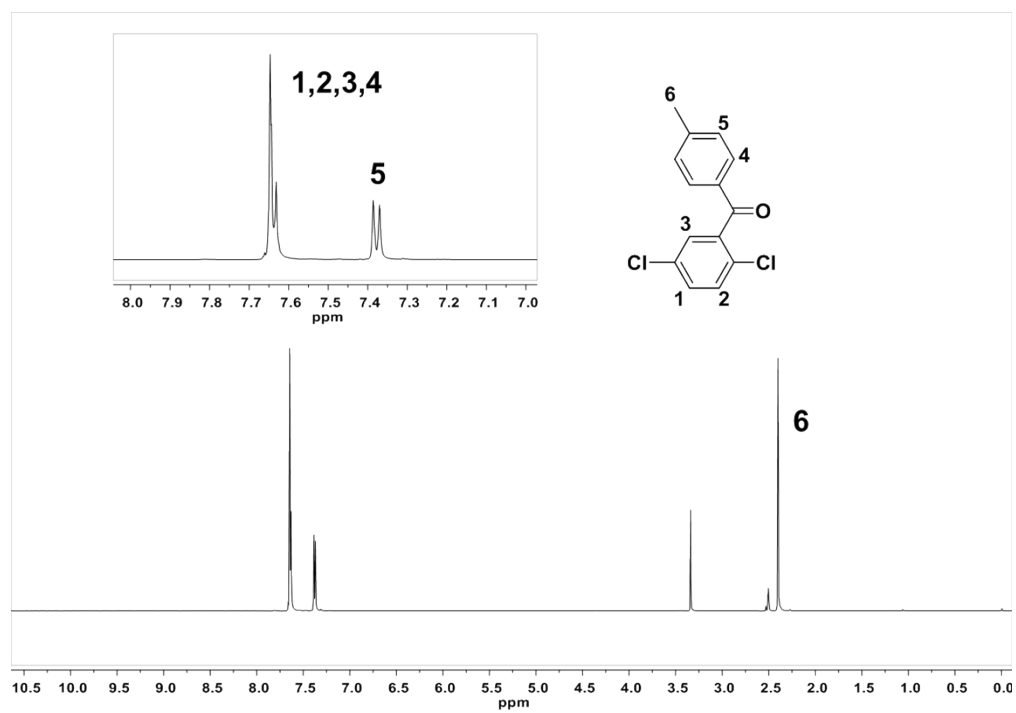


Fig. S1. ^1H NMR spectrum of DCMB in DMSO-d_6 .

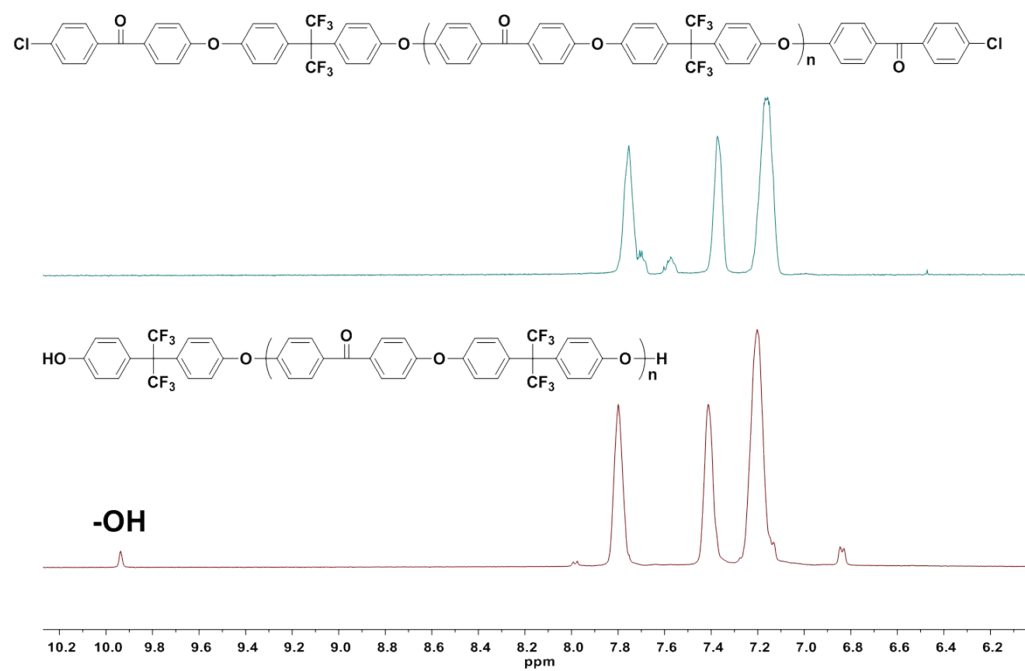


Fig. S2. ^1H NMR spectra of OH-terminated oligomer (bottom) and Cl-terminated oligomer (top) in DMSO-d_6 .

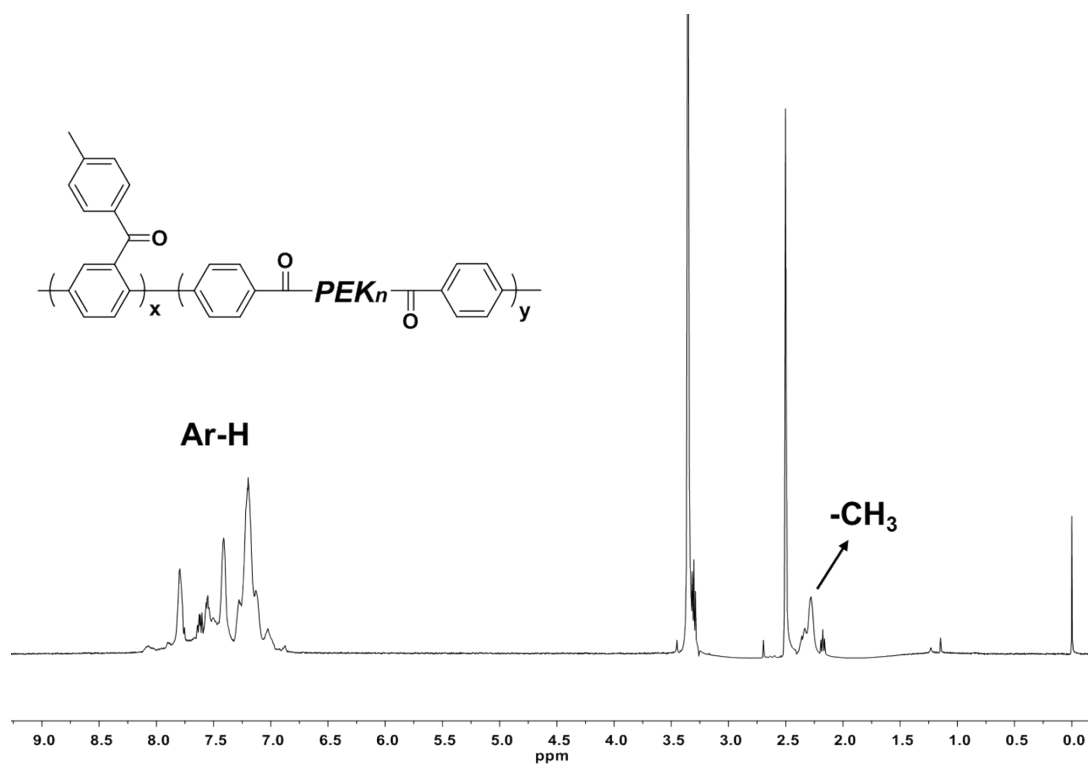


Fig. S3. ^1H NMR spectrum of PPAEK in DMSO-d_6 .

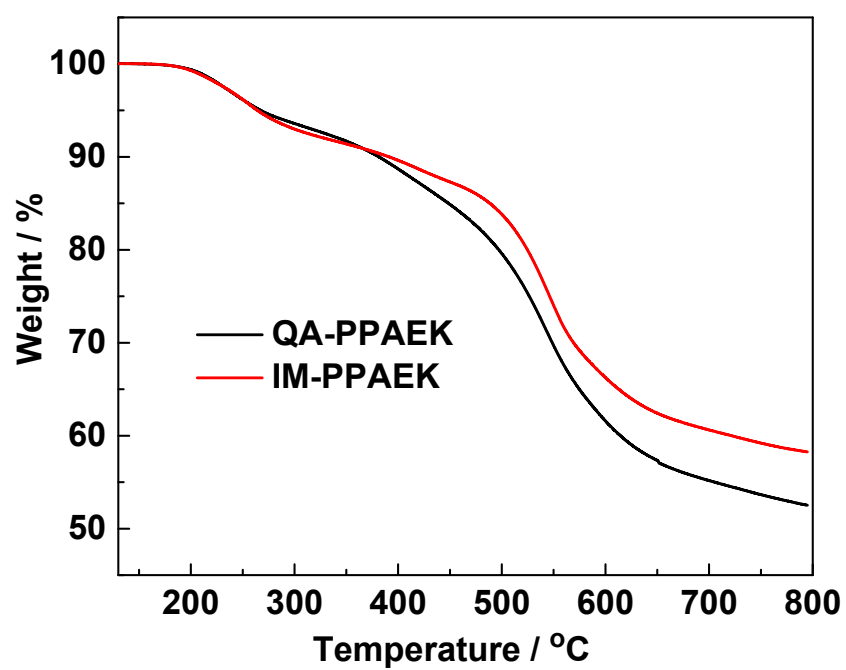


Fig. S4. TG analysis of QA- and IM-PPAEK.

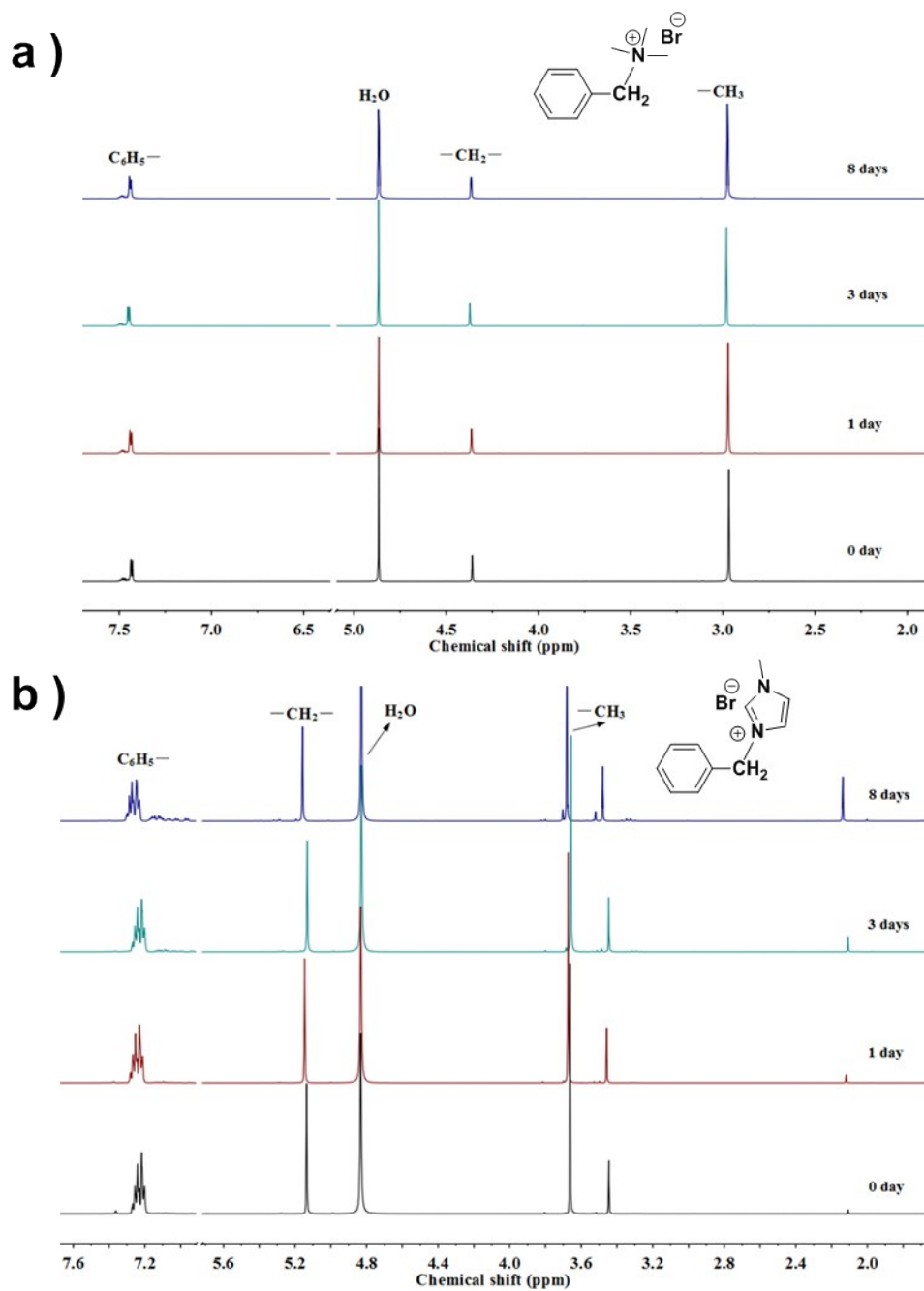


Fig. S5. The ^1H NMR spectra of (a) QA, and (b) IM model compounds exposing to 1 M NaOD at 80 $^{\circ}\text{C}$.

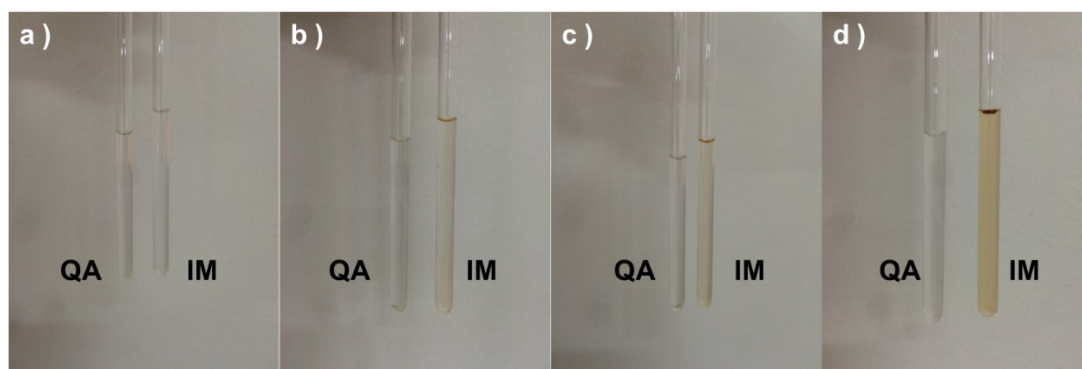


Fig. S6. The pictures of model compounds in NMR tubes of (a) 0 day, (b) 1 day, (c) 3 days and (d) 8 days in 1 M NaOD/D₂O at 80 °C.