

Supporting information

Synthesis and properties of comb-shaped sulfonated poly(arylene ether)s with highly branched backbones as proton exchange membranes

Dong Liu^a, Dan Tao^a, Jiangpeng Ni^a, Xiongzhi Xiang^a, Lei Wang^{a,*}, Jingyu Xi^{b,*}

^aShenzhen Key Laboratory of Special Functional Materials, College of Materials Science and Engineering, Shenzhen University, Shenzhen 518060, China

^bInstitute of Green Chemistry and Energy, Graduate School at Shenzhen, Tsinghua University, Shenzhen 518055, China

*Corresponding author: Lei Wang, E-mail: wl@szu.edu.cn or Jingyu Xi, Email:

xijy@tsinghua.edu.cn

Fig. S1. ¹H NMR spectra of MPAES-8-33

Fig. S2. ¹H NMR spectra of HPAES-8-33

Fig.S3. ¹H NMR spectra of SPAES-8-33

Fig.S4. ¹H NMR spectra of SPAES-0-33 and SPAES-8-33

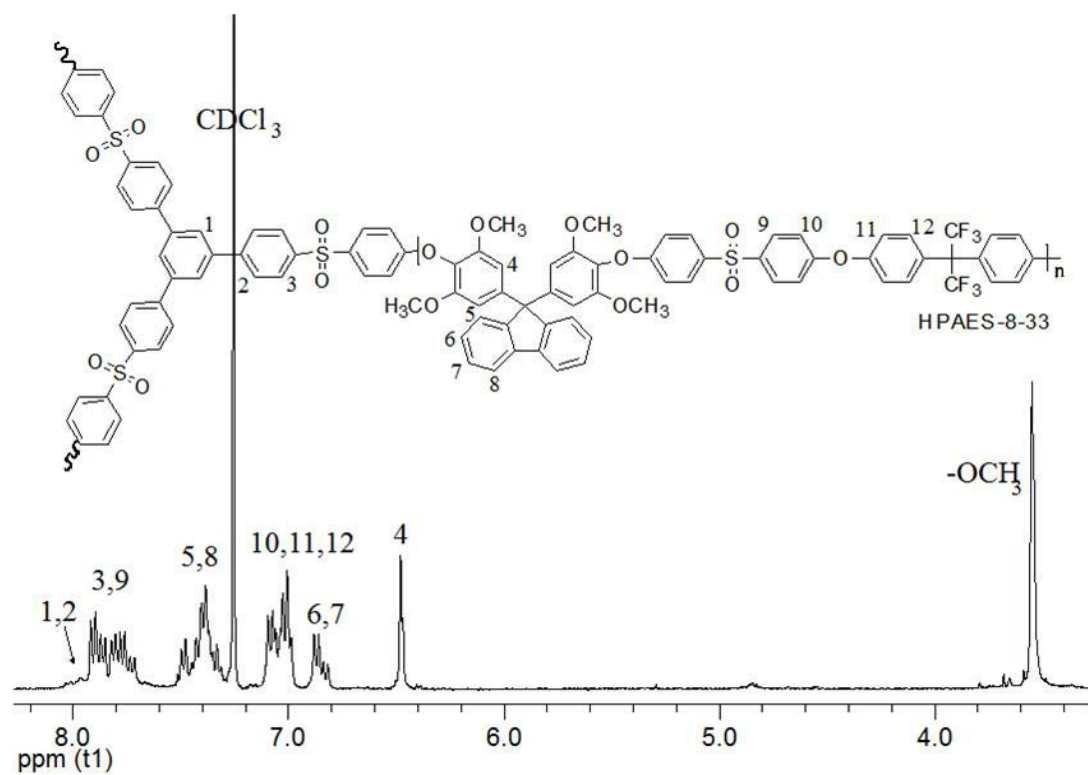


Fig.S1. ¹H NMR spectra of MPAES-8-33

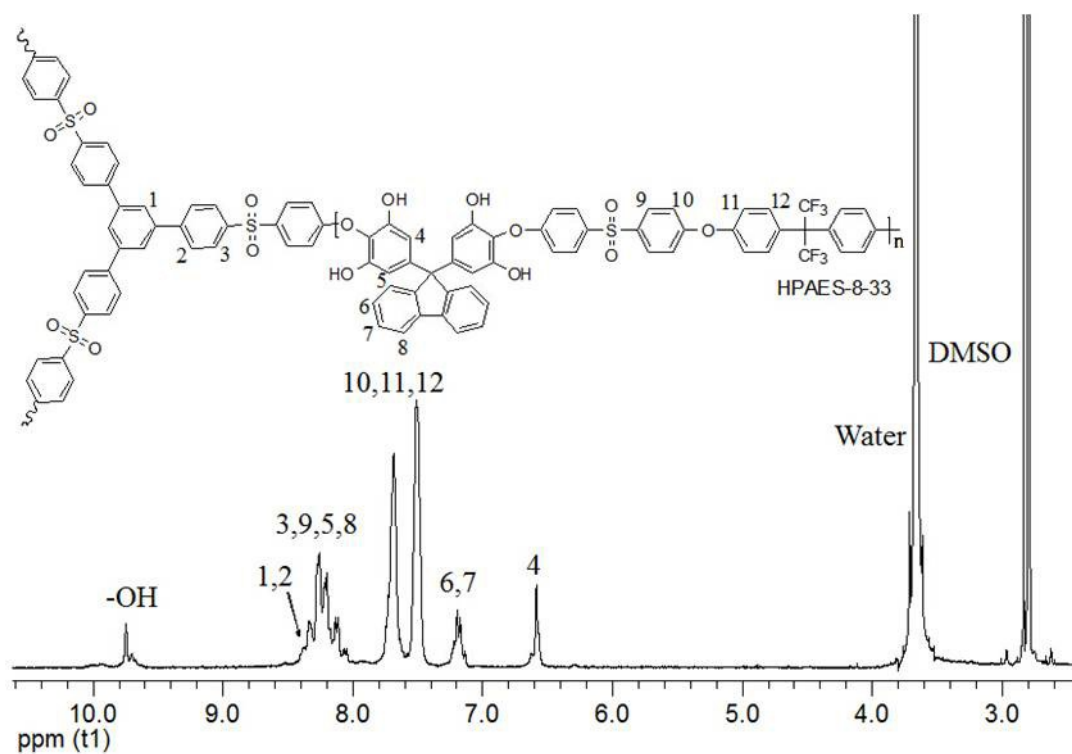


Fig. S2. ¹H NMR spectra of HPAES-8-33

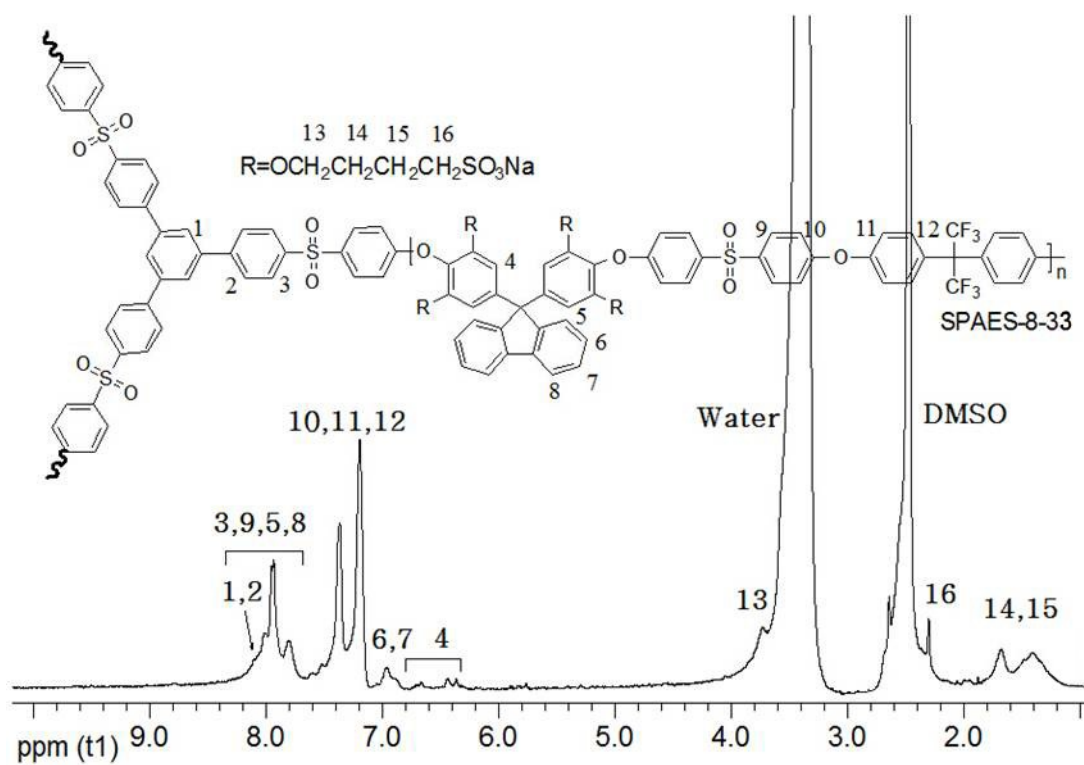


Fig. S3. ¹H NMR spectra of SPAES-8-33

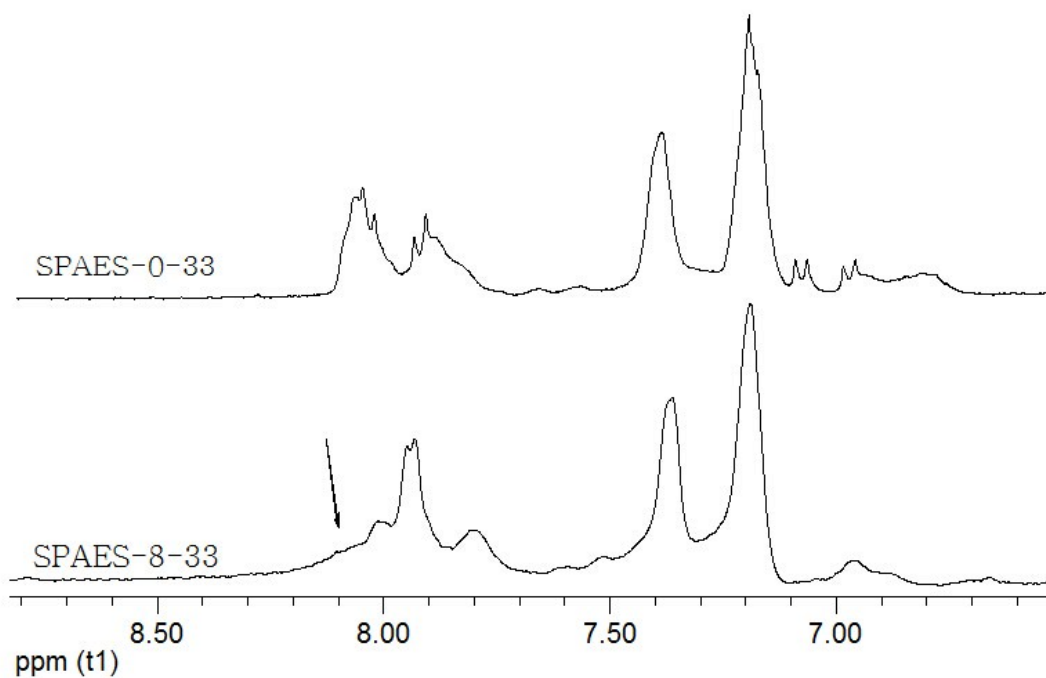


Fig.S4. ¹H NMR spectra of SPAES-0-33 and SPAES-8-33