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**The roles of solvent type and amount of residual solvent on  
determining the structure and performance of sulfonated poly(ether  
ether ketone) proton exchange membranes**

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**Abstract**

Our previous work demonstrated that the amount of residual solvent (RS) content plays an important role in determining the structure and properties of sulfonated poly(ether ether ketone) (SPEEK) membranes cast from dimethylacetamide (DMAc). In this work, another three most commonly used solvents during the preparation of proton exchange membranes (PEMs), including dimethylformamide (DMF), dimethylsulfoxide (DMSO) and N-methyl-2-pyrrolidone (NMP), were employed to

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