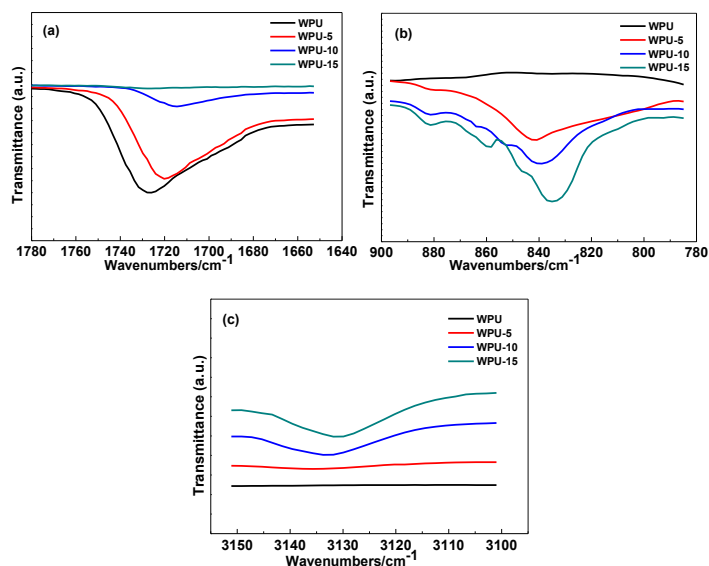


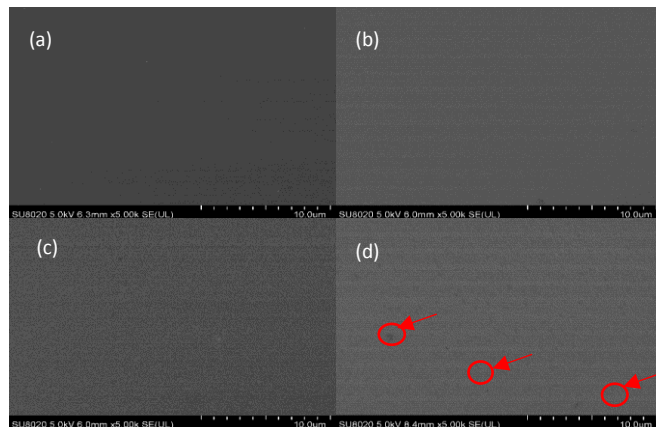
Morphology and pervaporation performance of ionic liquid and waterborne polyurethane composite membranes

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1. Supporting Information

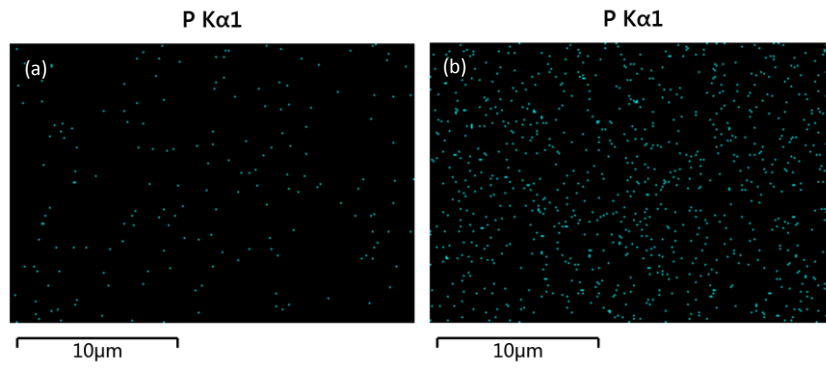


S1. FTIR spectra of pure WPU and [emim][PF₆]/WPU composite membranes, (a), (b), (c) changes in 3150-3110 cm⁻¹, 1680-1760 cm⁻¹ and 800-870 cm⁻¹ wavenumber with the addition of [emim][PF₆].



S2. SEM photographs of cross section of pure WPU and [emim][PF₆]/WPU composite membranes: (a) cross section of WPU, (b) cross section of WPU-5, (c) cross section of WPU-10, (d) cross section of -15.

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S3. Element mapping of the cross section of [emim][PF₆]/WPU composite membranes. (a) Phosphorus (P) signals are from WPU-5, (b) P signals are from WPU-10.