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In situ converting ZnO to zeolitic imidazolate framework-8 in polyamide layer for wellstructured high permeance thin film nanocomposite nanofiltration membrane

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Fig. S1. Schematic graph of the separation platform in this study.



Figure S2. Top surface SEM images of TFN-ZnO membrane.



Figure S3. SEM images of TFN-ZIF-8 membrane.



Figure S4. Separation performance of TFC membranes treated by a water/methanol

solvent and a water/methanol solution of Hmim.



Figure S5. SEM images of TFN-ZnO and TFN-ZIF-8 membranes prepared at a ZnO

concentration of 0.1%.



Figure S6. ATR-FTIR characterization of TFN-ZIF-8 membrane before and after

filtration.



Figure S7. SEM images of TFN-ZIF-8 membranes prepared at different reaction

temperature.