Electronic Supplementary Material

Fabrication of high-performance pervaporation composite membrane for alkaline wastewater reclamation

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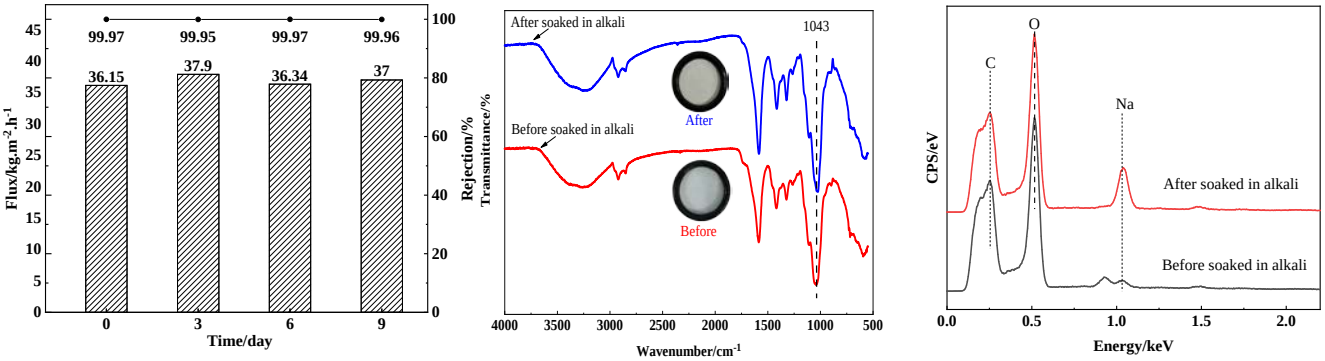


(a) (b) (c)

Fig S1 (a) The desalination property of the composite membrane after the static alkali resistance test at 25 ºC (the temperature of feed solution was 70 ºC, the pressure of permeate side was 100 Pa), (b) the FTIR spectra and the surface topography of the membrane before and after soaking in the alkaline solutions, (c) the EDS spectra of the composite membrane before and after soaking in the alkaline solution.

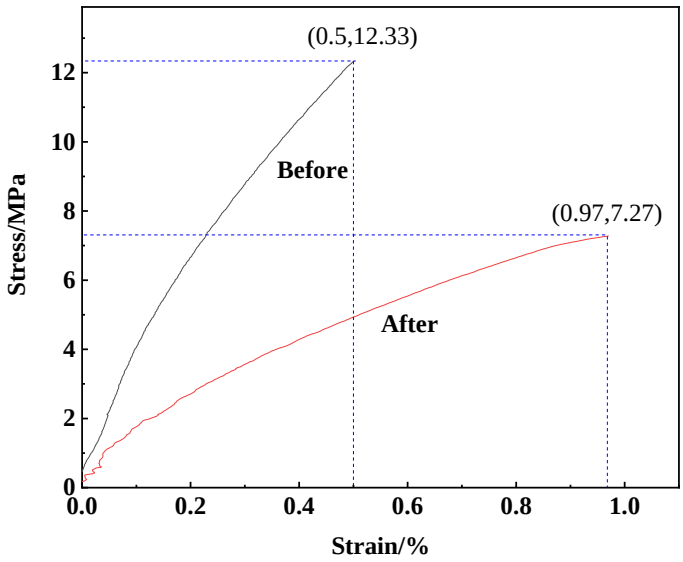
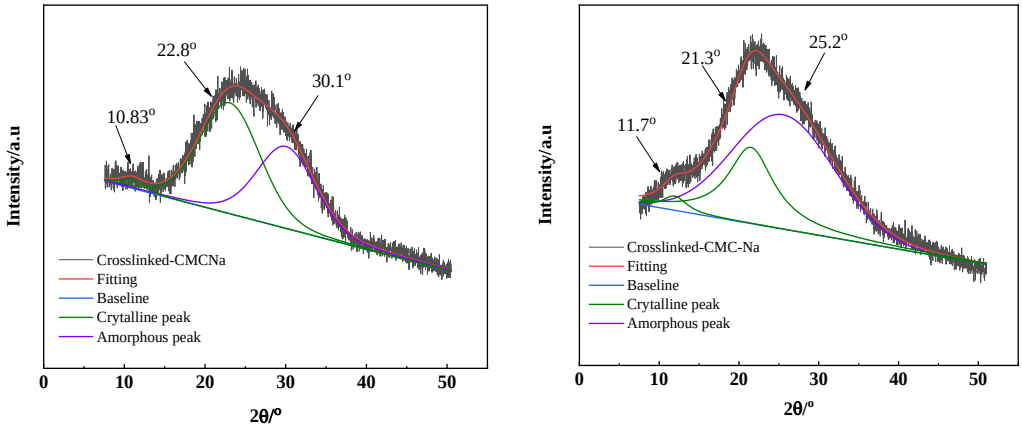


Fig S2 The mechanical property of CMC-Na/GA self-supporting membrane before and after 15 days of NaOH immersing at 25 ºC.



(a) (b)

Fig. S3 (a) Fitting XRD of CMC-Na/GA self-supporting membrane before the NaOH immersing. (b) Fitting XRD of CMC-Na/GA self-supporting membrane after the NaOH immersing 15 days at 25 °C.