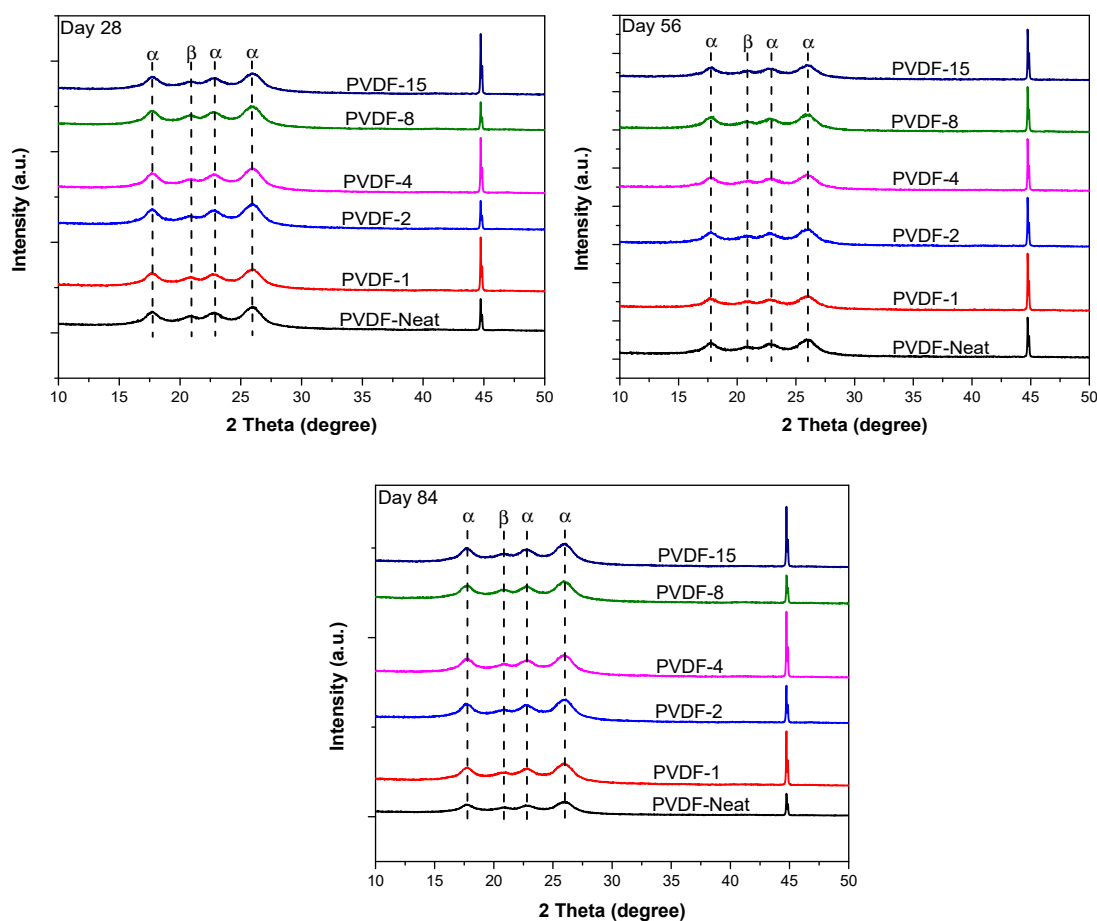


# Supplementary Materials: Impacts of Sulfuric Acid on the Stability and Separation Performance of Polymeric PVDF-Based Membranes at Mild and High Concentrations: An Experimental Study

## XRD Analysis

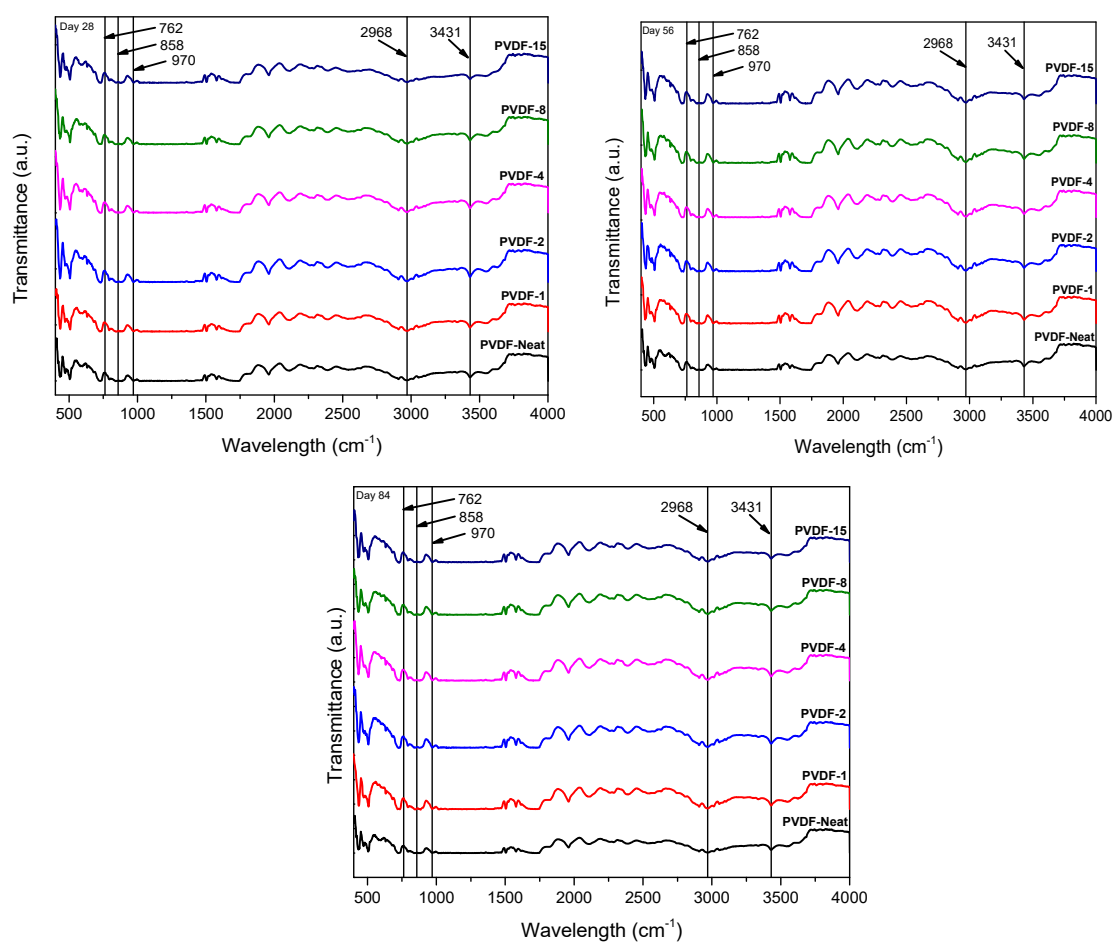


**Figure S1.** X-ray diffraction spectra for neat and embedded membranes at exposure day 28, 56 and 84.

**Table S1.** Diffraction angles  $2\theta$  of their characteristic peaks.

| Exposure Period (Days) | Crystalline Phase Diffraction Angles $2\theta$ |         |          |          |
|------------------------|------------------------------------------------|---------|----------|----------|
|                        | $\alpha$                                       | $\beta$ | $\alpha$ | $\alpha$ |
| 28                     | 17.72                                          | 20.95   | 22.84    | 25.89    |
| 56                     | 17.74                                          | 20.84   | 22.89    | 25.99    |
| 84                     | 17.74                                          | 20.84   | 22.79    | 25.99    |

## FTIR Analysis



**Figure S2.** FTIR spectra of neat and embedded membranes at exposure day 28, 56 and 84.



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