

Supporting Information

Vapor Phase Interfacial Polymerization: A Method to Synthesize Thin Film Composite Membranes Without Using Organic Solvents

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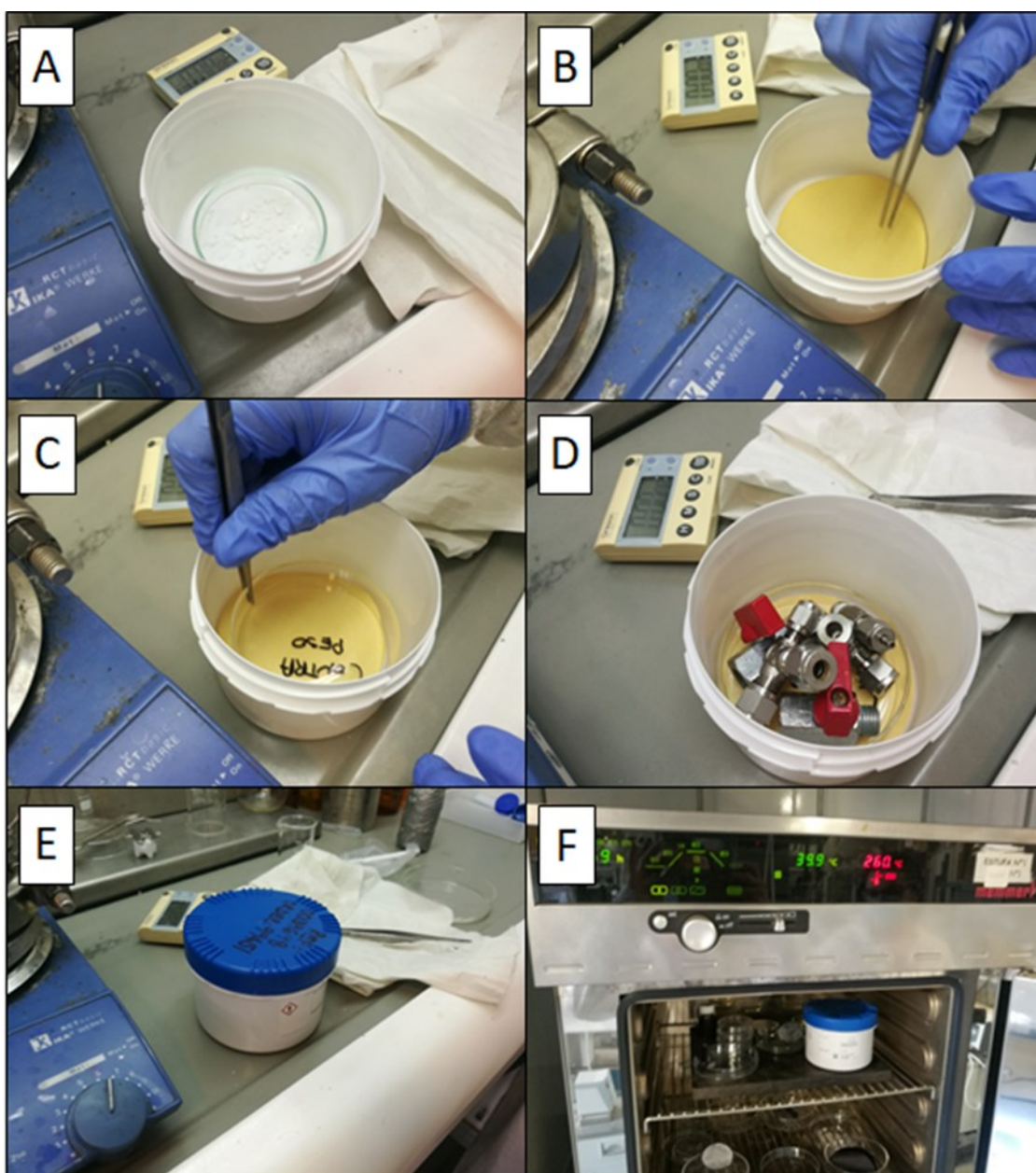


Figure S1: Experimental set-up for the VP-IP. TMC on a Petri dish, placed in the recipient that contains the setup (A). PI support put upside down covering the Petri dish with TMC (B). Another Petri dish being placed on the support (C) containing weight to maintain it flat and avoiding leaks during the synthesis (D). The recipient that contains the setup placed in the oven at 40 °C (E, F).

Table S1: Temperature and vapour pressure values used in the Clausius-Clapeyron equation.

Temperature (K)	Vapour pressure (mm Hg)
298.15	0.000167
453.15	16

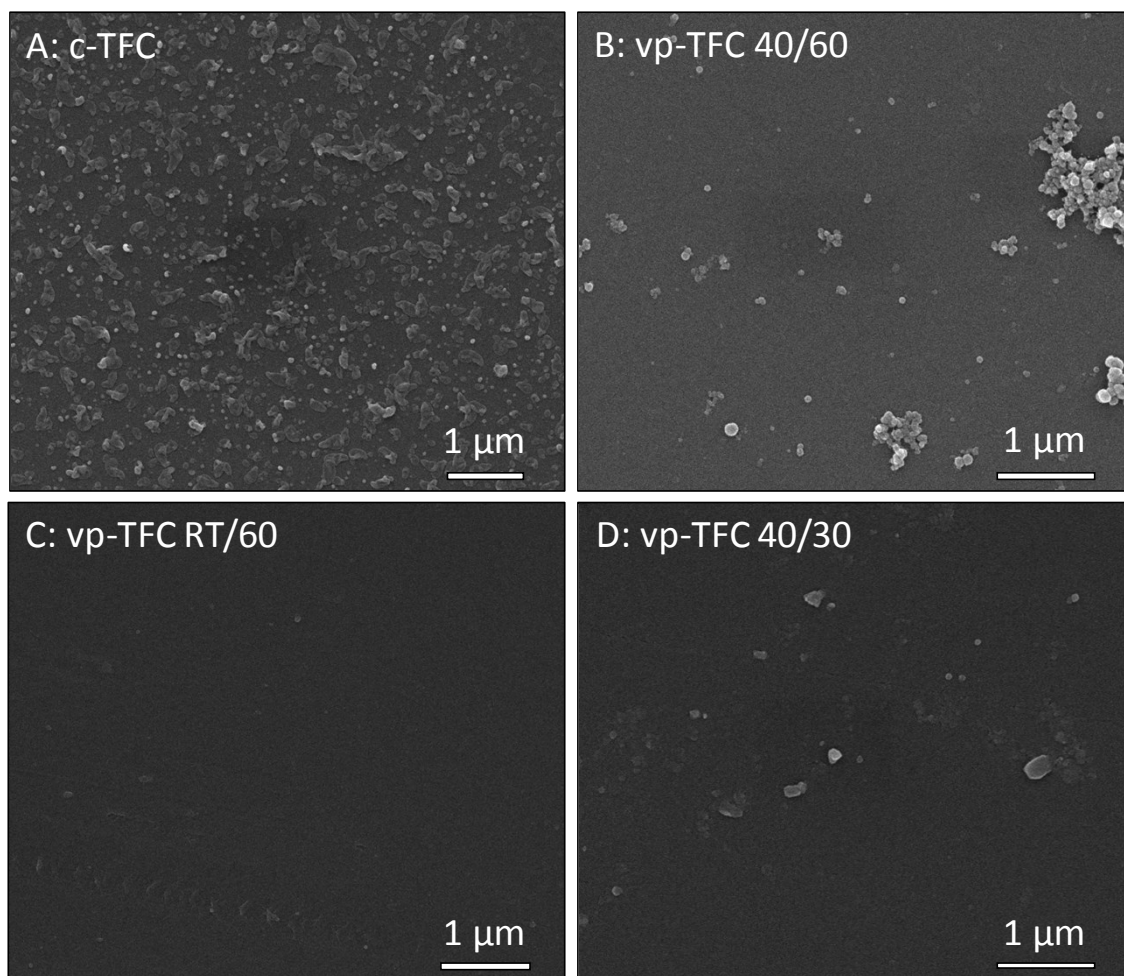


Figure S2: SEM images of the surface of the c-TFC membrane, vp-TFC 40/60 membrane, vp-TFC RT/60 membrane and vp-TFC 40/30 membrane.

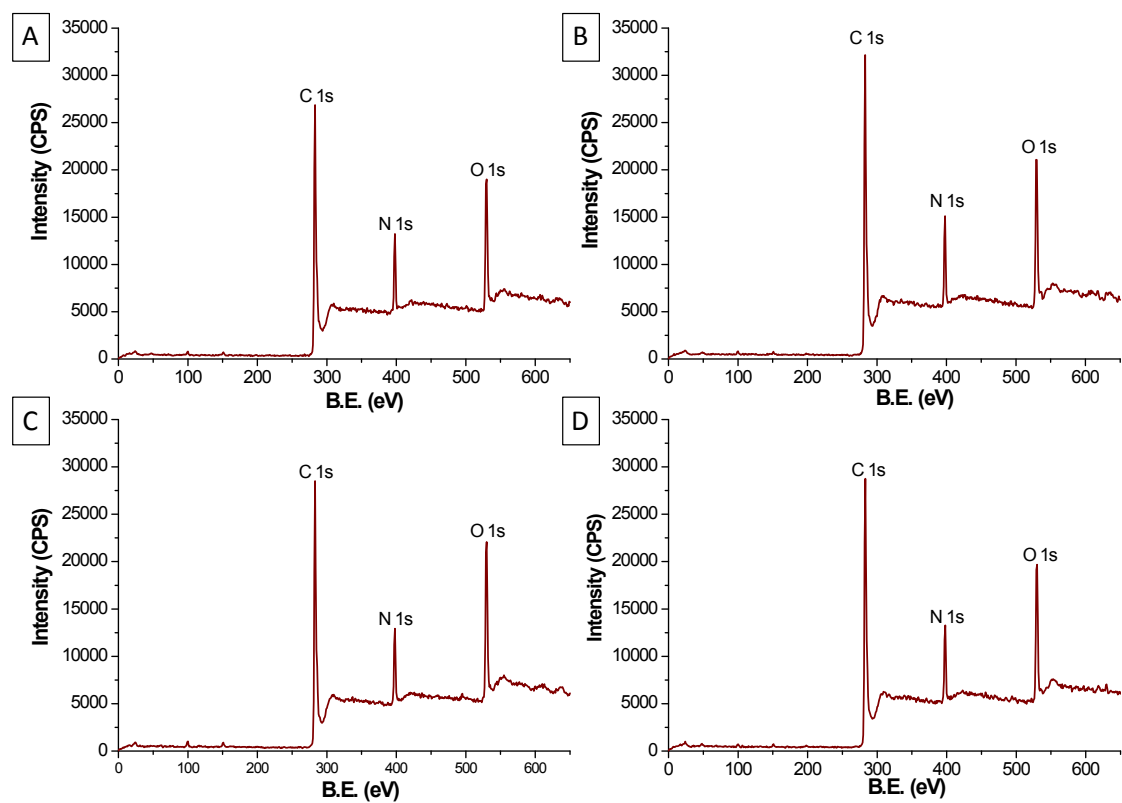


Figure S3: XPS spectra of: A) c-TFC membrane, B) vp-TFC RT/6o membrane, C) vp-TFC 4o/3o membrane and D) vp-TFC 4o/6o membrane.