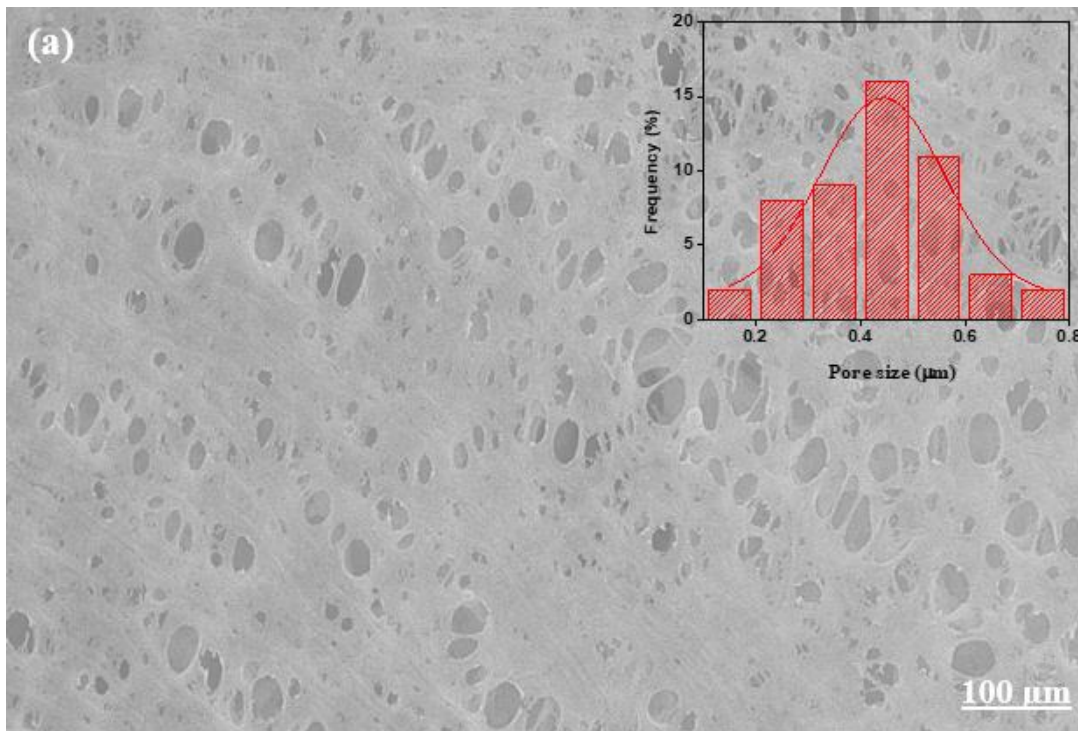


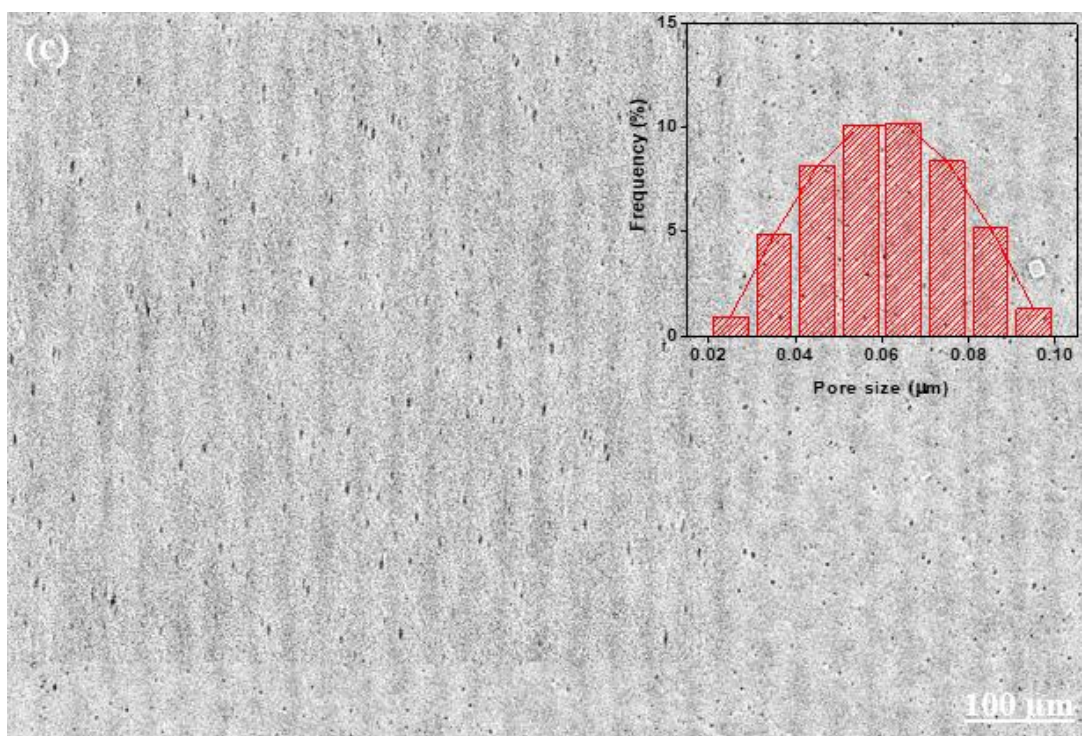
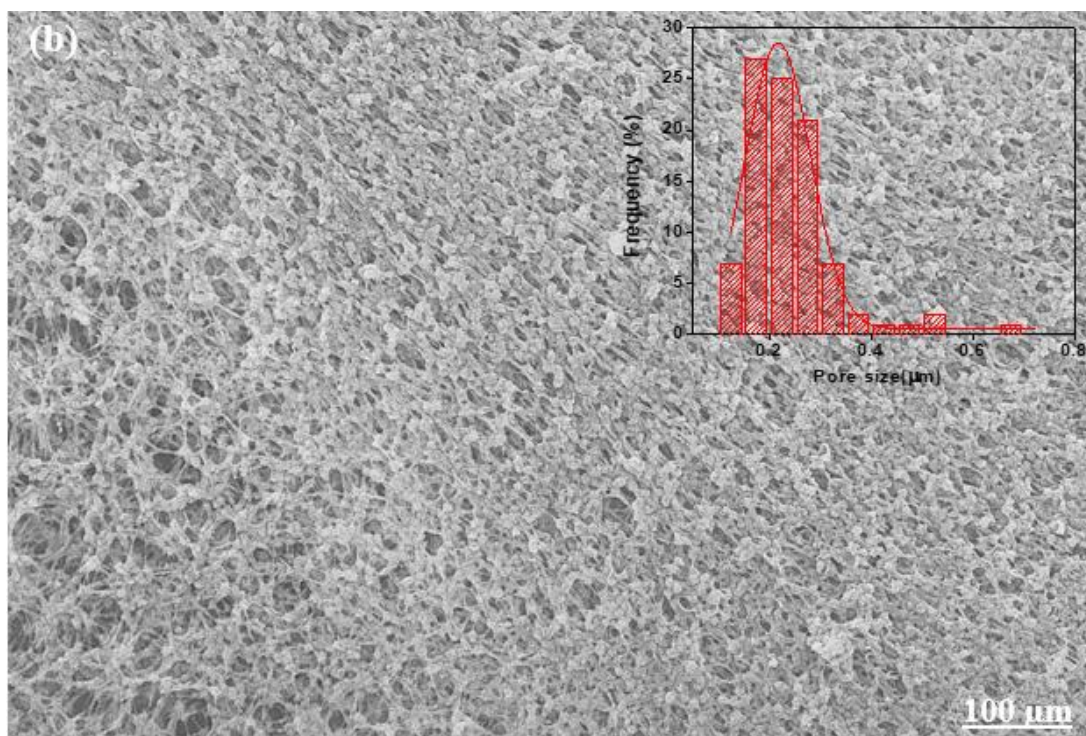
Bio-Inspired Surface Engineering of Low-Content PVDF/TA Janus Membranes for Surfactant-Stabilized Water-in-Oil Emulsion Separation

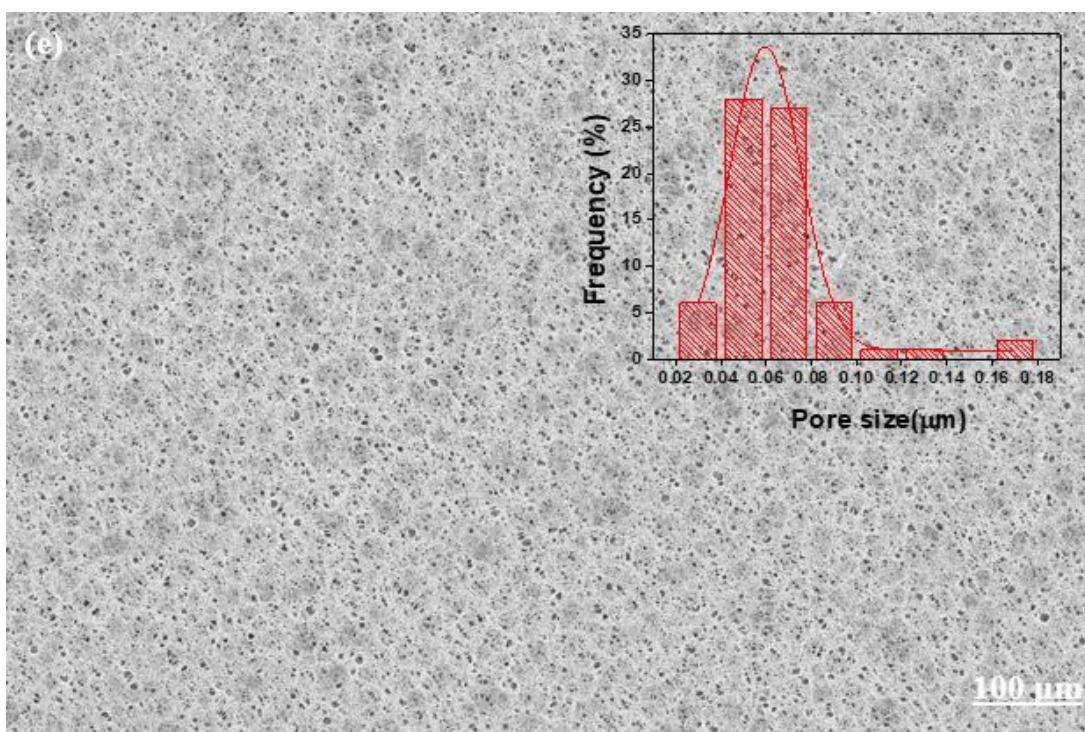
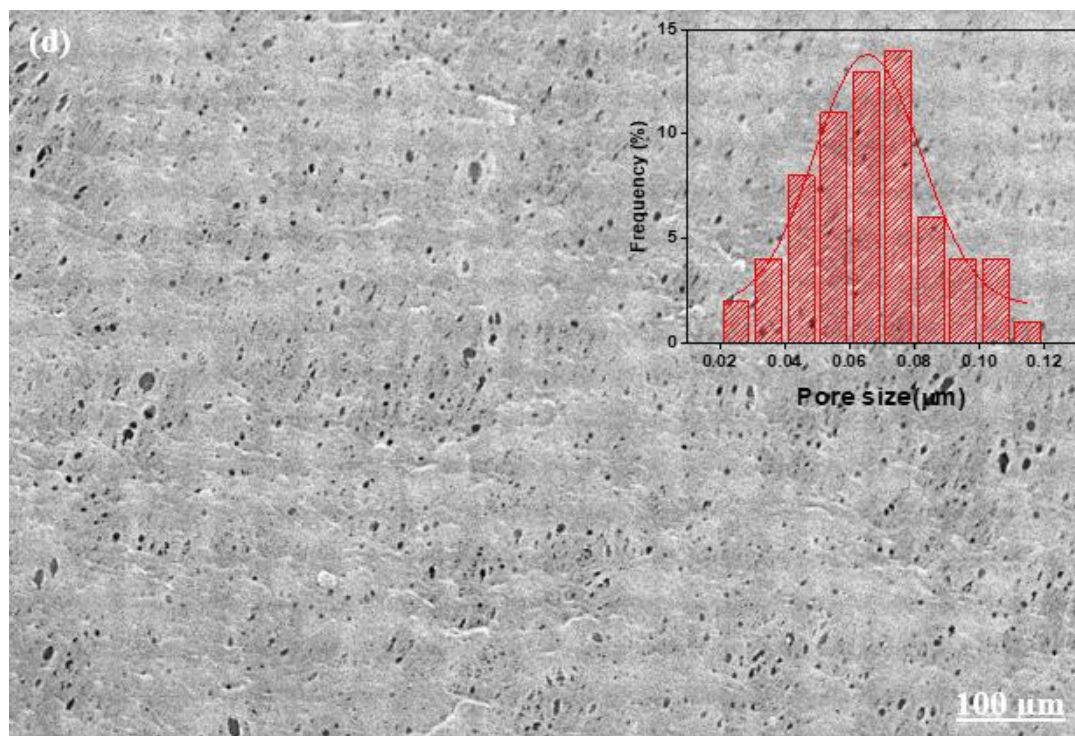
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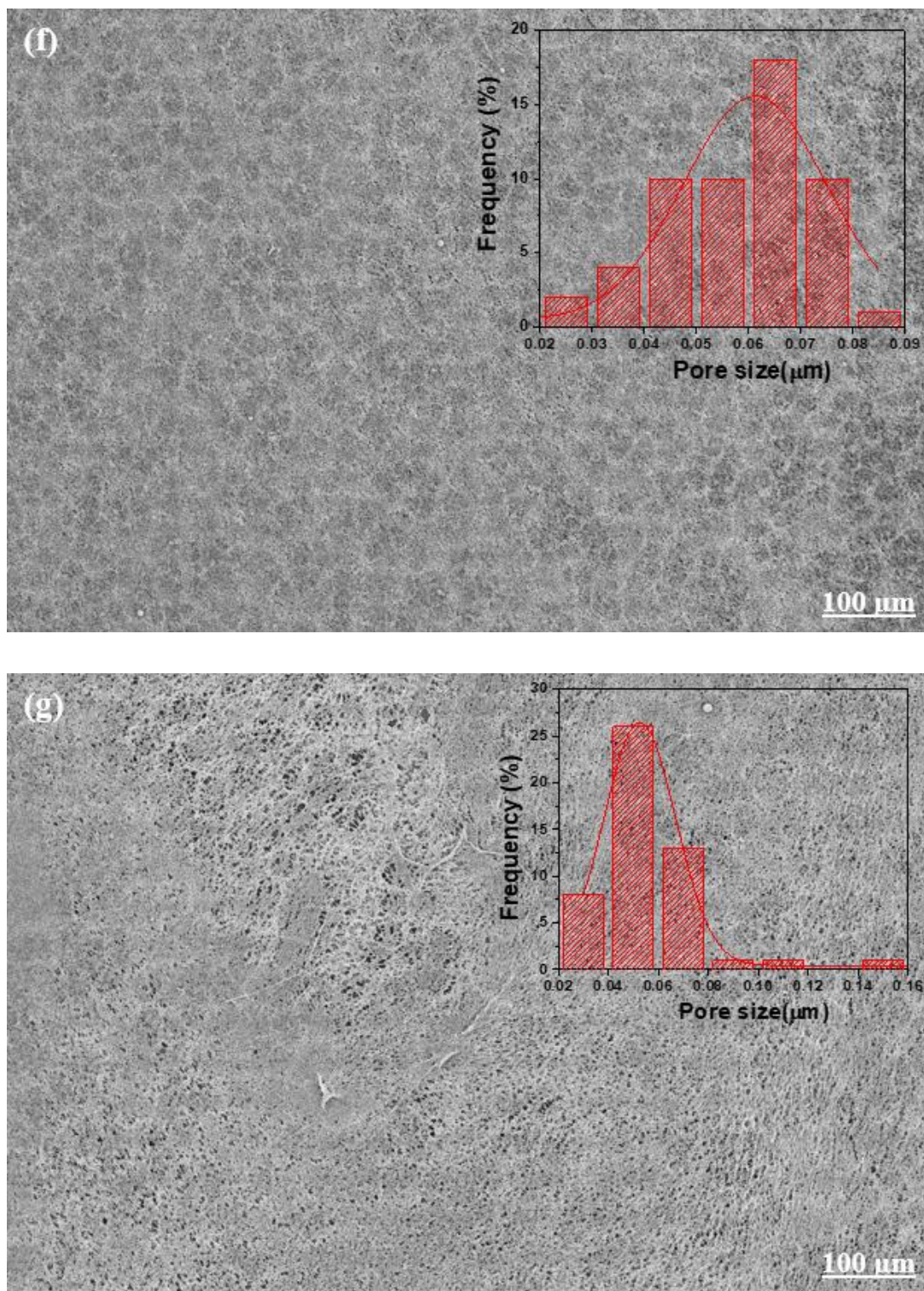


Figure S1. SEM images of PVDF membranes prepared with different polymer concentrations: (a-e) membranes containing 5, 7, 10, 15, and 20 wt.% PVDF dissolved in DMAc, and (f, g) membranes containing 15 and 20 wt.% PVDF dissolved in NMP, respectively

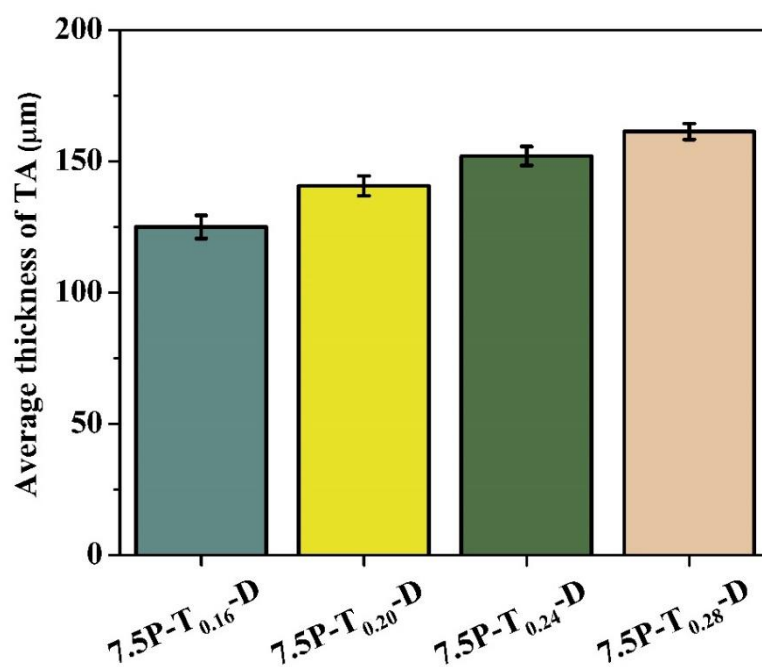


Figure S2: The average thickness of Janus 7.5P-T_x-D membranes coated with different concentration of tannic acid

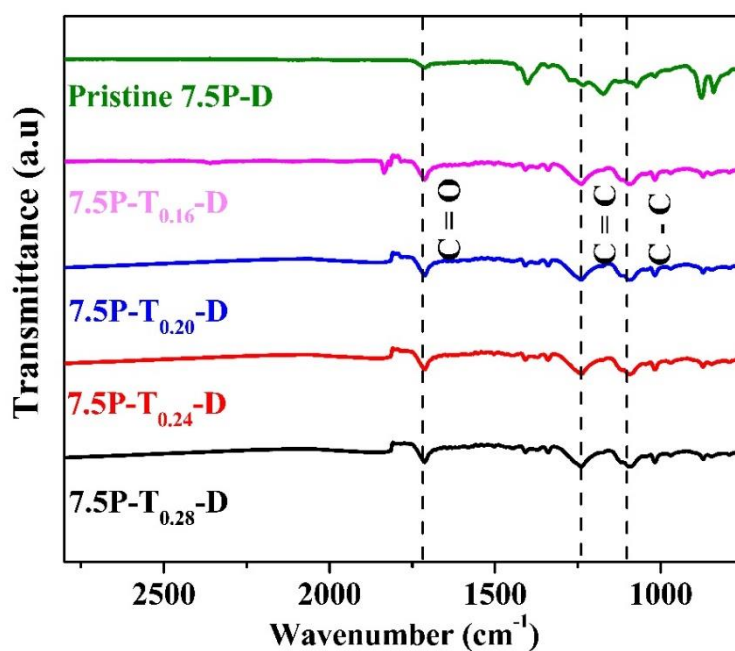


Figure S3. FTIR spectra of both the upper face of pristine 7.5P-D membrane and the modified Janus 7.5P-T_x-D membrane with different concentrations of tannic acid

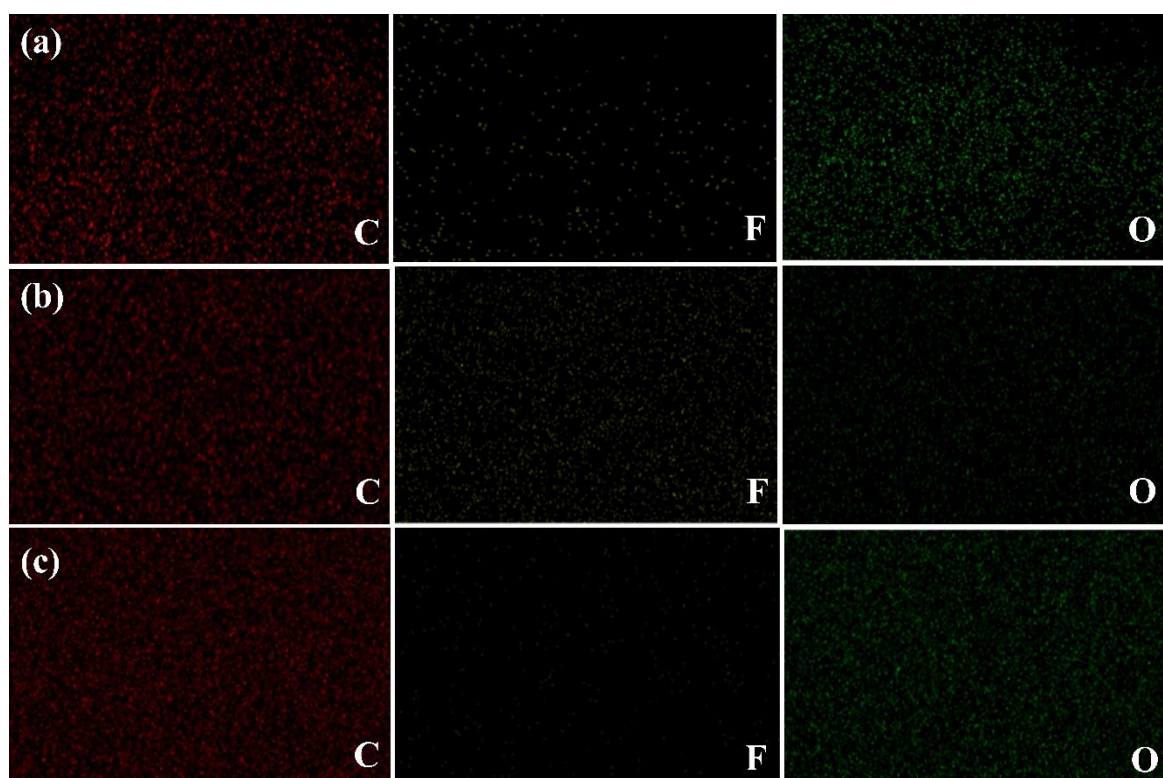


Figure S4. Elemental composition of the (a) 7.5P-T_{0.16}-D, (b) 7.5P-T_{0.20}-D and (c) 7.5P-T_{0.28}-D membranes