

Supplementary Material

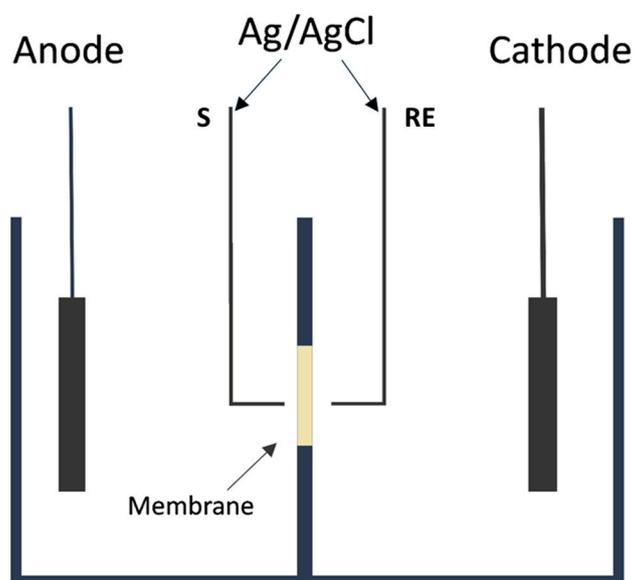


Figure S1. The experimental set-up for linear sweep voltammetry measurements. Anode (+) is working electrode (WE), Cathode (-) is counter electrode (CE), S is sensitive electrode and RE is reference electrode.

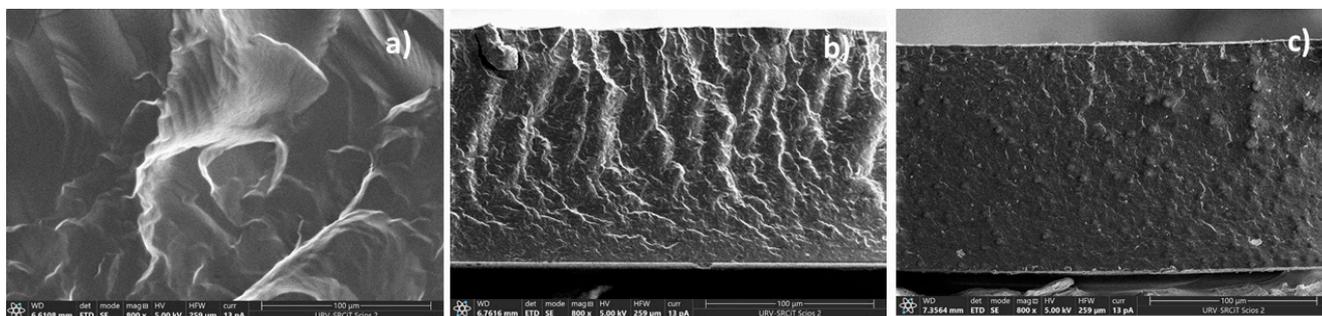


Figure S2. FESEM images of the membrane cross-sections: CP0 (a); CP20 (b); CP20 oriented (c).

Table S1 Water Contact angle as determined on oriented CP20 and CP40 membranes after Proton Permeability experiment (PP) and Water Uptake test (WU).

Sample	Modification (%)	Contact angle (°)	
		Oriented membrane after PP	Oriented membrane after WU
CP20	20%	106 ± 2 ^a , 107 ± 1 ^b	106 ± 2 ^a , 108 ± 3 ^b
CP40	40%	124 ± 2 ^a , 122 ± 2 ^b	130 ± 3 ^a , 130 ± 2 ^b

^a Air side; ^b Teflon side