

Experimental Evaluation of Anion Exchange Membranes for the Desalination of (Waste)Water Produced after Polymer-Flooding

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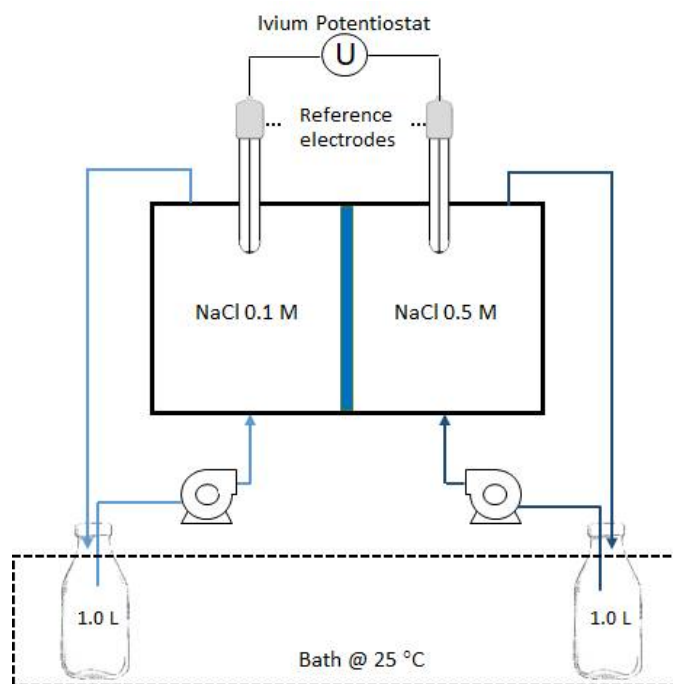


Figure S1. Scheme of the two-compartment cell utilized for potential measurement, the potentiostat measures the open cell voltage. The solutions were stored in a warm bath at 25 °C.

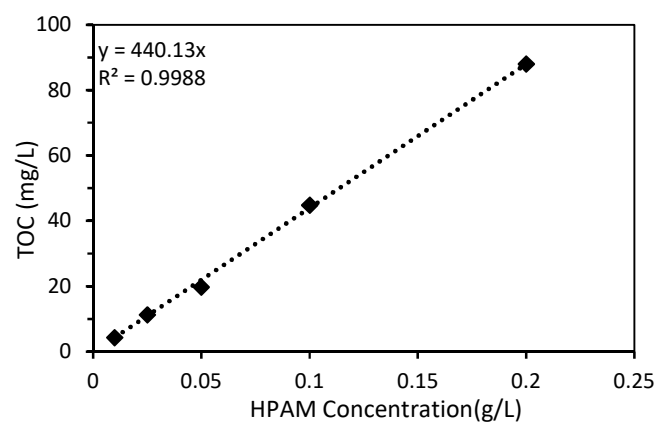


Figure S2. Calibration curve relating the HPAM concentration to the measured TOC.

Additional information for Results and discussion

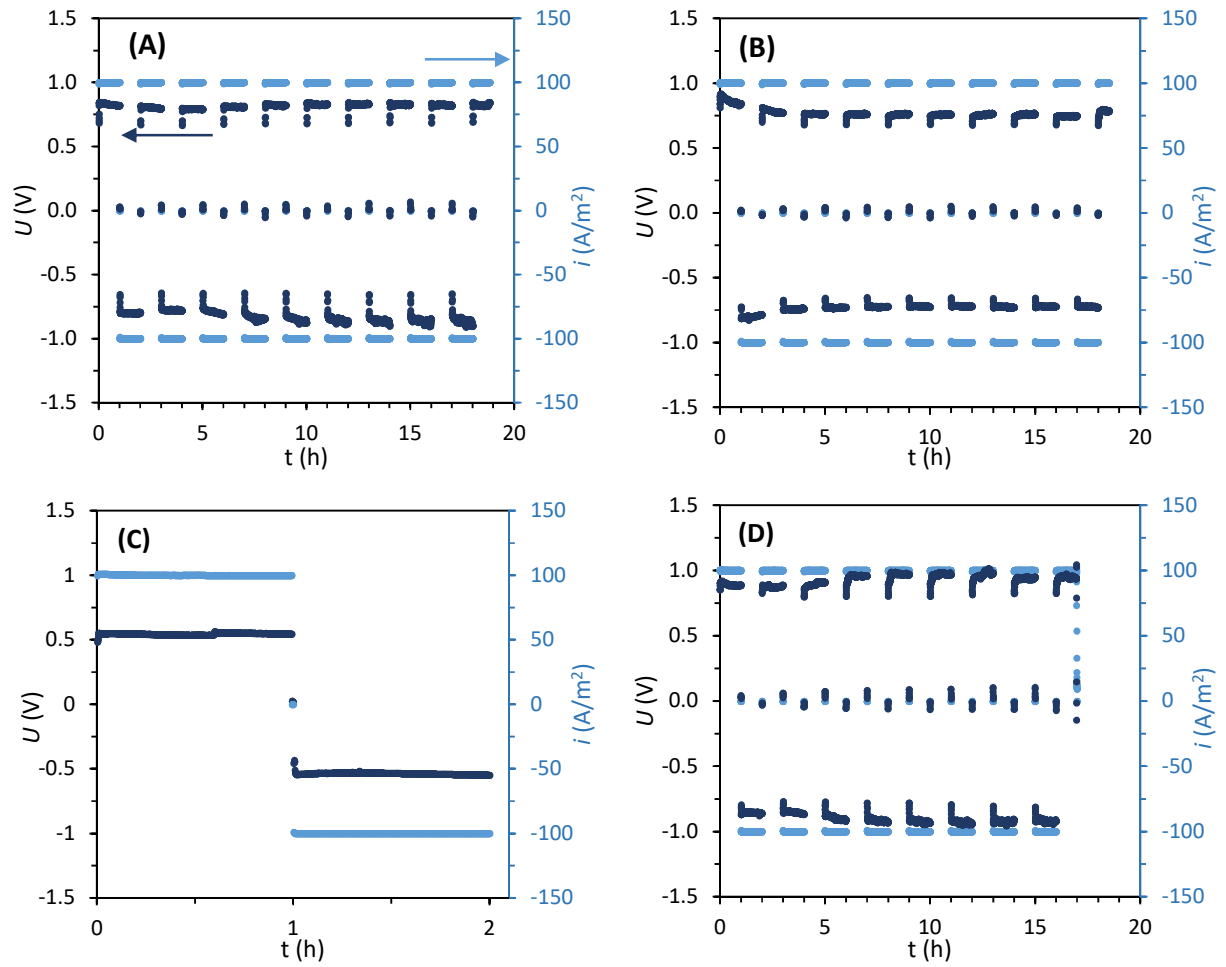


Figure S3. Electric potential U (marine) and current density i (light blue) versus time during the desalination of NaCl 0.5M (stage A) in the EDR mode (continuation of Figure 2). Values measured for the stack composed by (A) Suez AR204E, (B) Suez AR908E, (C) FujiFilm-1 (incomplete data set due to a failure in the recording system), and (D) FujiFilm-12.

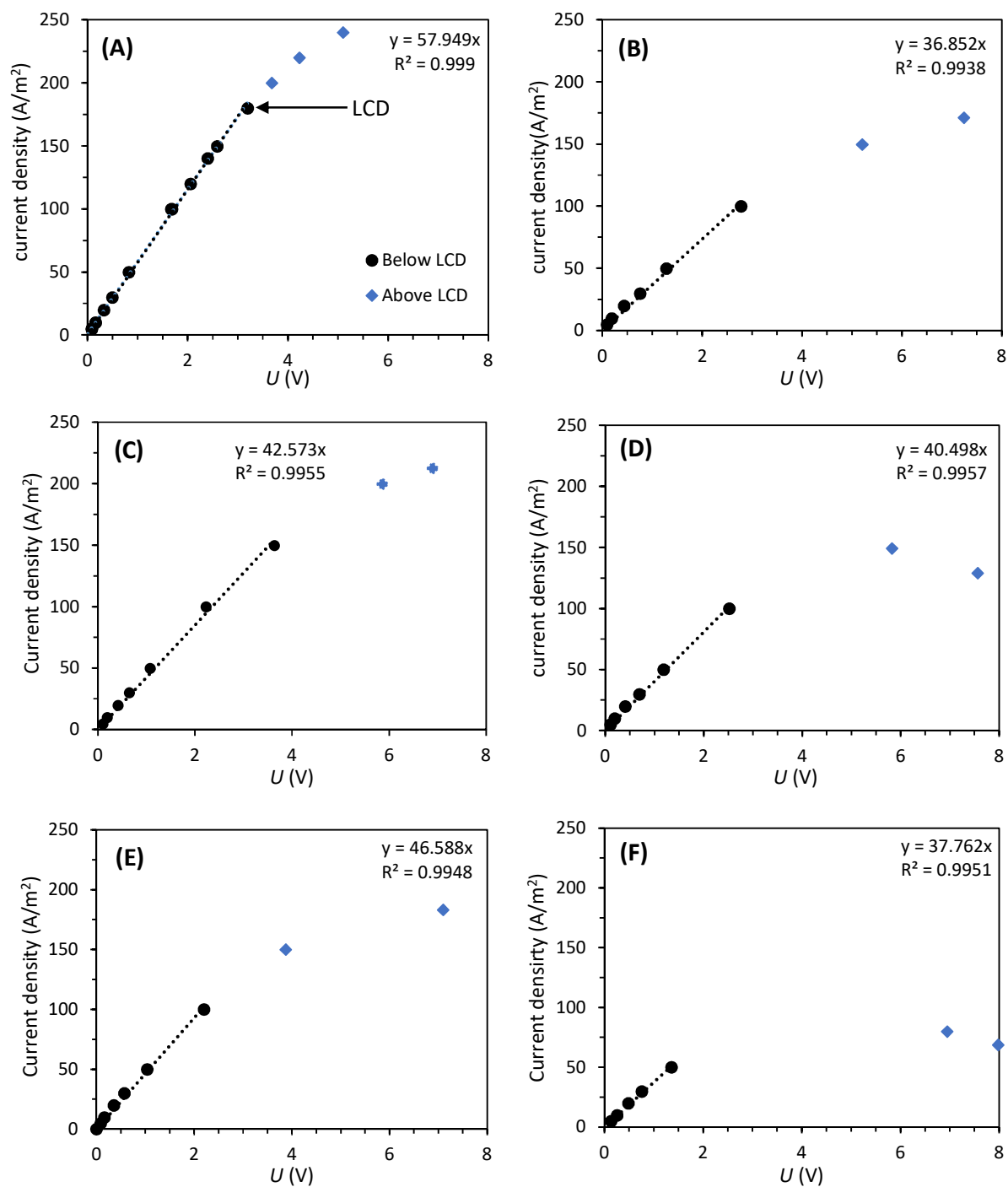


Figure S4. Current density vs. voltage curves obtained when desalinating BW solution in stacks containing (A) Neosepta AMX, (B) Suez AR204E, (C) FujiFilm-10, (D) Suez AR908E, (E) FujiFilm-1, and (F) FujiFilm-12. For Neosepta AMX, the LCD was calculated, while for the other AEMs, the test was only performed until reaching 100 A/m², to make sure that the operation would remain in the ohmic regime (linear trend).

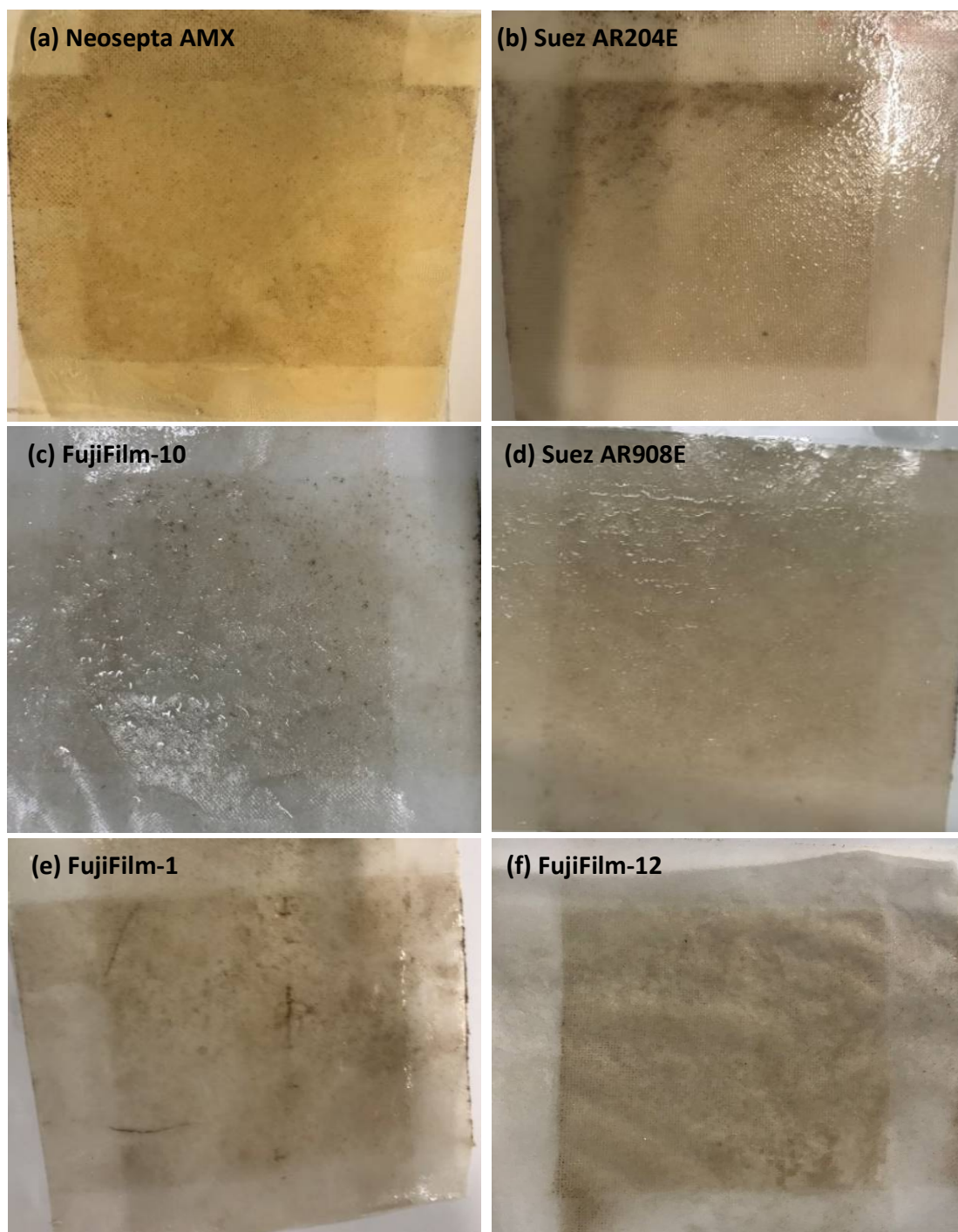


Figure S5. Photography's of anion exchange membranes recovered after the EDR runs