

## Supplementary Information

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### 3 **Performance Restoration of Membranes Degraded by Fouling and Wetting** 4 **in Membrane Distillation**

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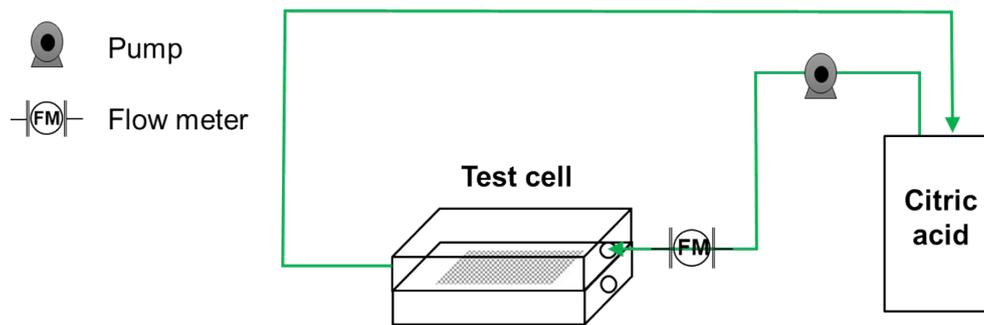
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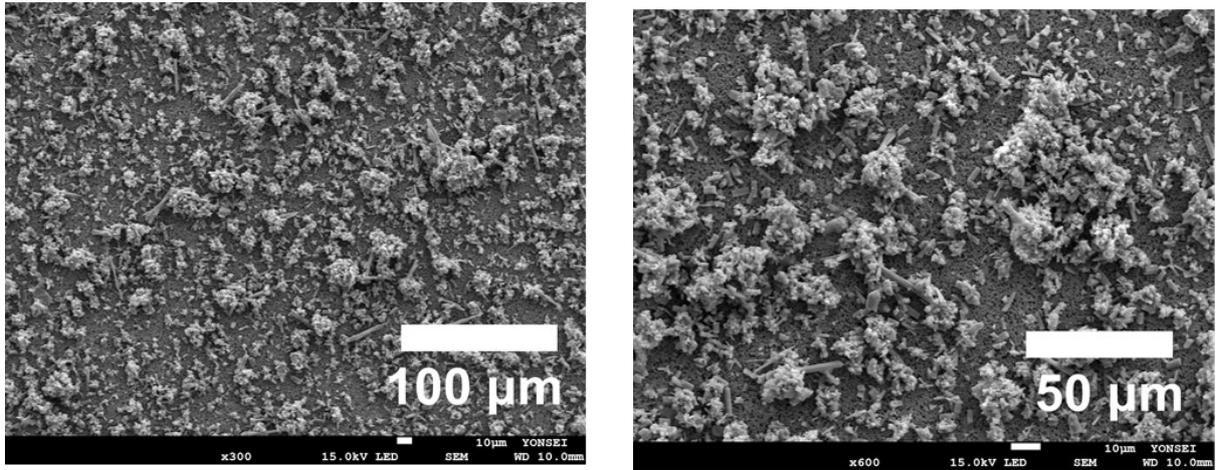
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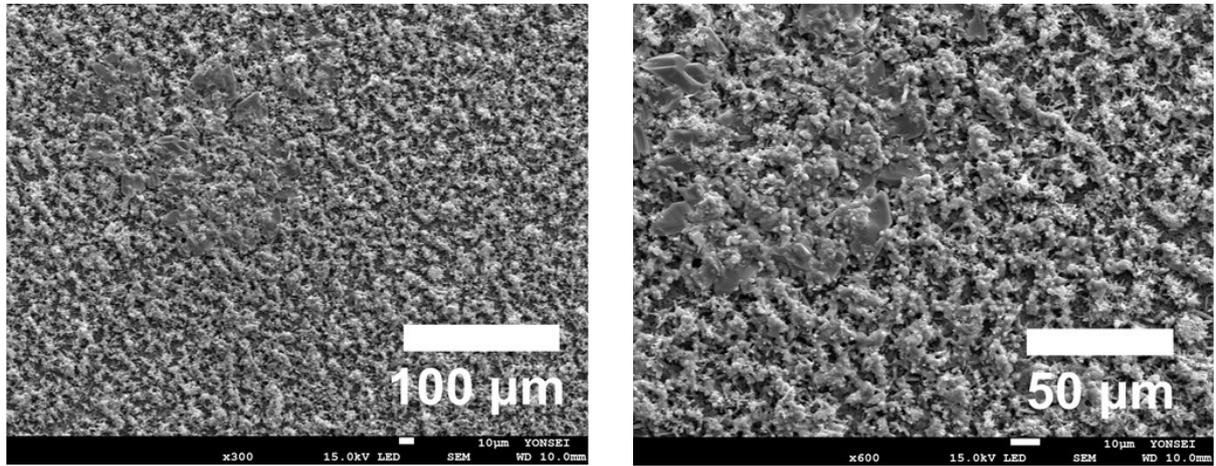
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26 **Figure S1. Schematic diagram of the membrane cleaning method using citric acid**  
27 **circulation with a pump.**

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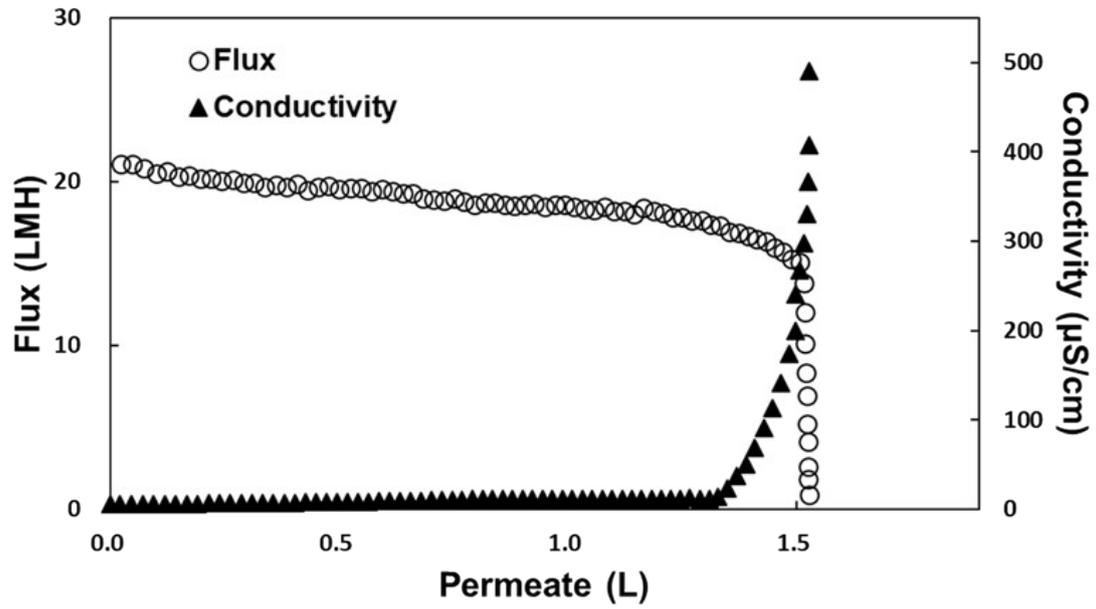


(a)



(b)

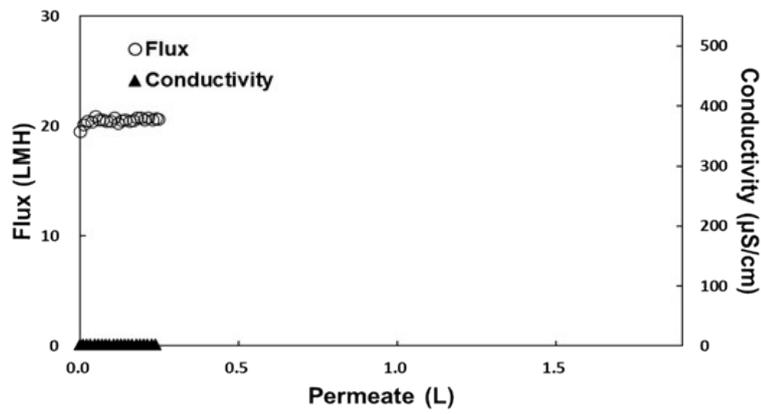
31 **Figure S2. SEM images of membranes operated up to (a) Stage I and (b) Stage II.**



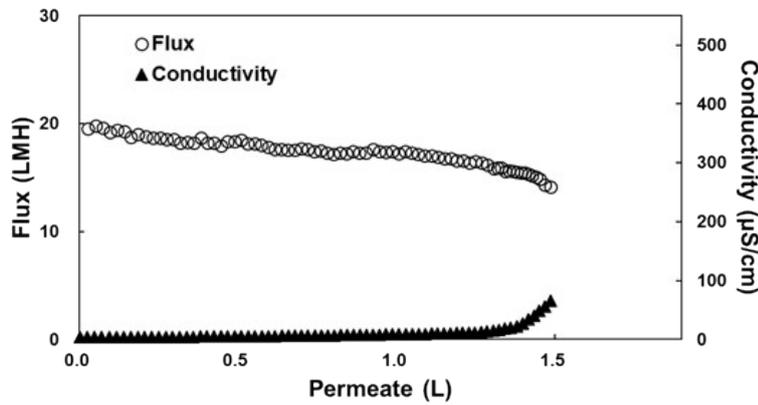
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35 **Figure S3. Results of an additional experiment to reproduce and verify the results**  
36 **shown in Figure 3.**

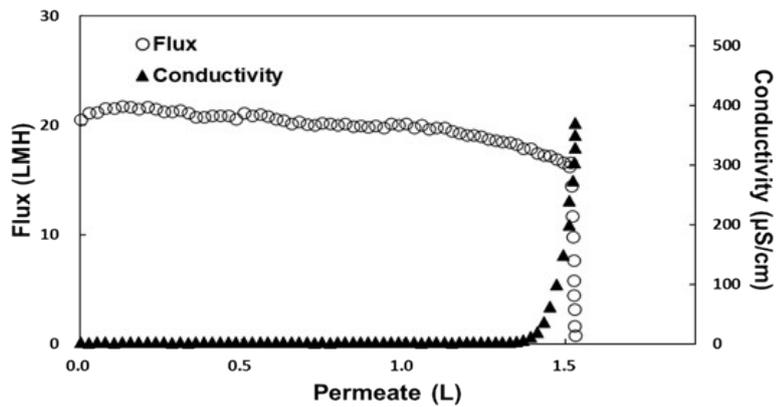
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(a)



(b)

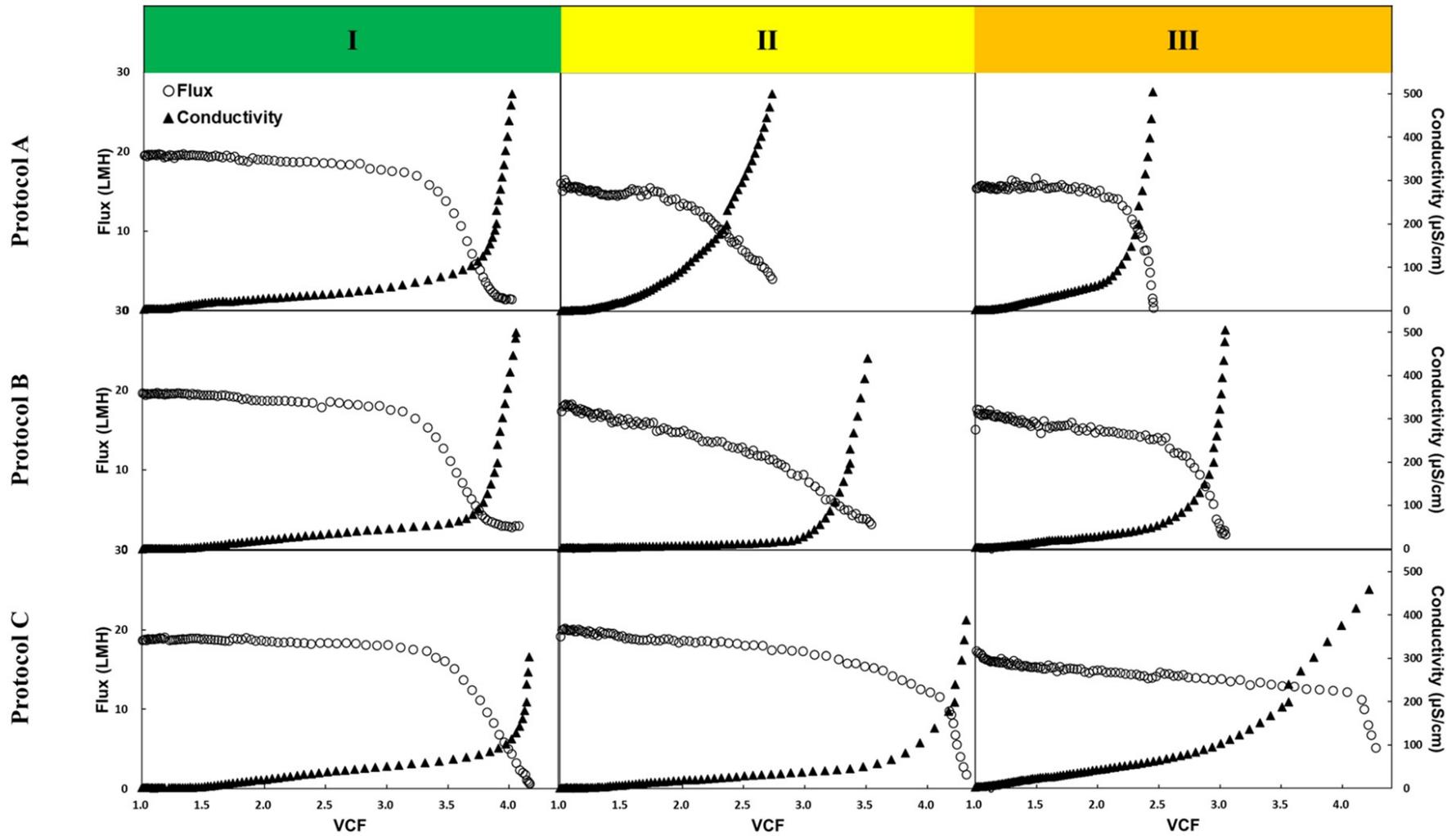


(c)

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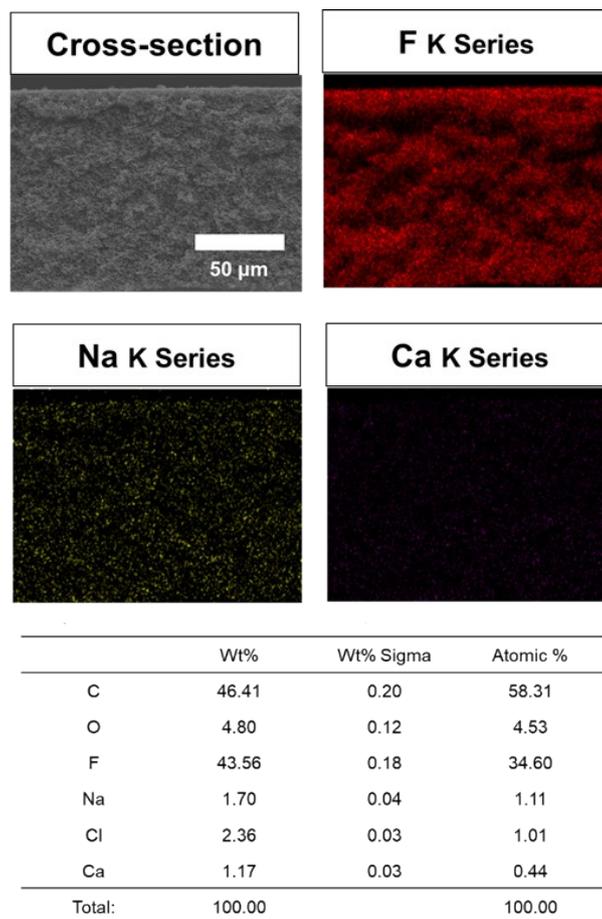
39 **Figure S4. Distillate flux and conductivity during the first MD operations up to (a)**  
 40 **Stage I, (b) Stage II, and (c) Stage III.**

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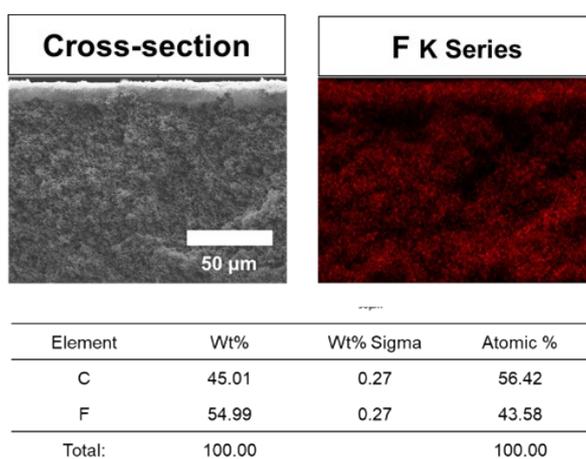


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43 Figure S5. Distillate flux and conductivity as a function of the volume concentration factor (VCF) for the second MD operations after  
 44 applying Protocols A, B, and C to three different stages of fouling and wetting.



(a)



(b)