

# Supporting Information

## **Antifouling conductive composite membrane with reversible wettability for wastewater treatment**

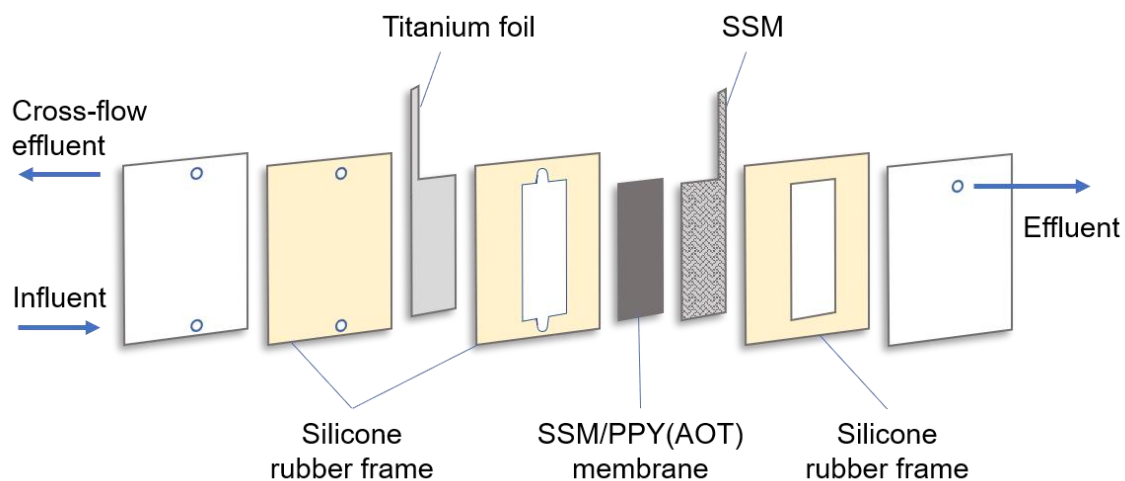
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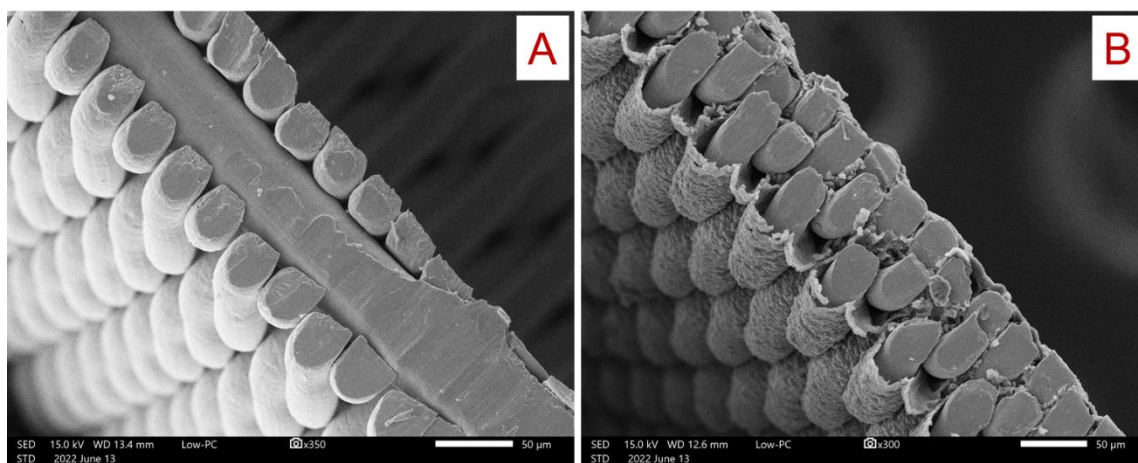
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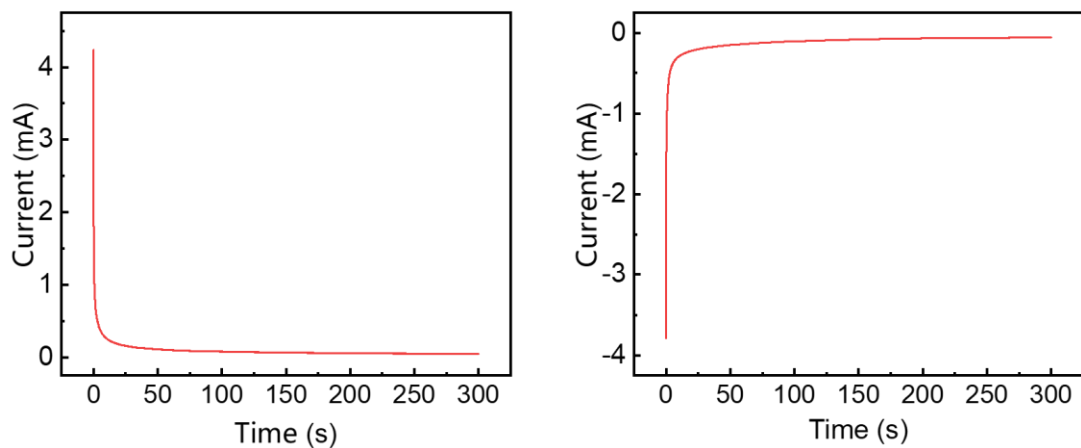
E-mail: shuai\_liang@bjfu.edu.cn



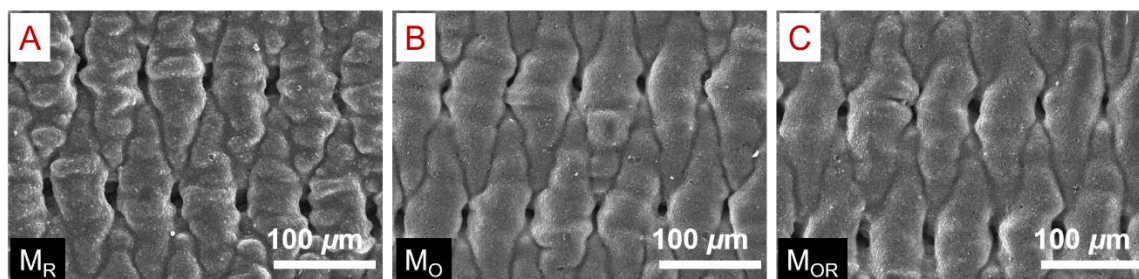
**Figure S1.** Configuration diagram of the cross-flow filtration cell used in the antifouling filtration experiments.



**Figure S2.** SEM images of cross sections of the (A) SSM and (B) SSM/PPY(AOT) membrane.



**Figure S3.** Current-time curves of the oxidation and reduction processes for the SSM/PPY(AOT) membrane.



**Figure S4.** SEM views of the (A) fouled membrane in the M<sub>R</sub> mode, (B) fouled membrane in the M<sub>O</sub> mode, and (C) fouled membrane in the M<sub>OR</sub> mode.