

## Supporting Information

### **Prolonging the antibacterial activity of nanosilver-coated membranes through partial sulfidation**

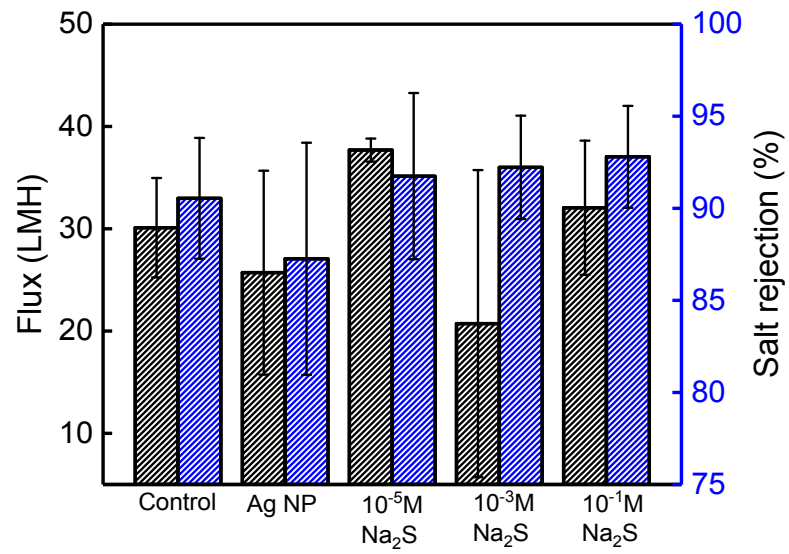
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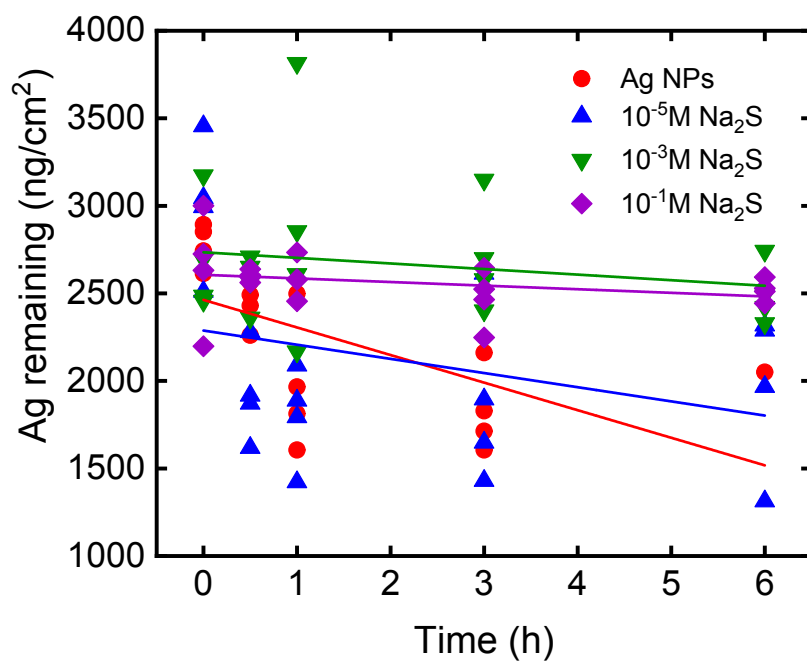
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**Figure S1.** Permeate flux (black bars) and salt rejection (blue bars) of control and functionalized Ag membranes. The salt concentration used was 2000 mg/L and the TMP is 300 psi.



**Figure S2.** Mass of silver remaining on Ag NPs membrane and sulfidized membranes. The silver remaining measurements were done by ICP-MS of three individual acid digested membranes. The slope of each line is the average rate of dissolution (n=3 per time point).