

Cover Page for Supporting Information

Manuscript title:

Impacts of inorganic draw solutes on the performance of thin-film composite forward osmosis membrane in a microfiltration assisted anaerobic osmotic membrane bioreactor

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Fig. S5. CLSM images of total cells (SYTO 63), proteins (FITC), α -D-glucopyranose polysaccharides (Con A) and β -D-glucopyranose polysaccharides (CW) in the FO biofouling active layer. (a) and (b) total cells in the NaCl-reactor and MgCl₂-reactor, respectively; (c) and (d) proteins in the NaCl-reactor and MgCl₂-reactor, respectively; (e) and (f) α -D-glucopyranose polysaccharides in the NaCl-reactor and MgCl₂-reactor, respectively; (g) and (h) β -D-glucopyranose polysaccharides in the NaCl-reactor and MgCl₂-reactor, respectively.

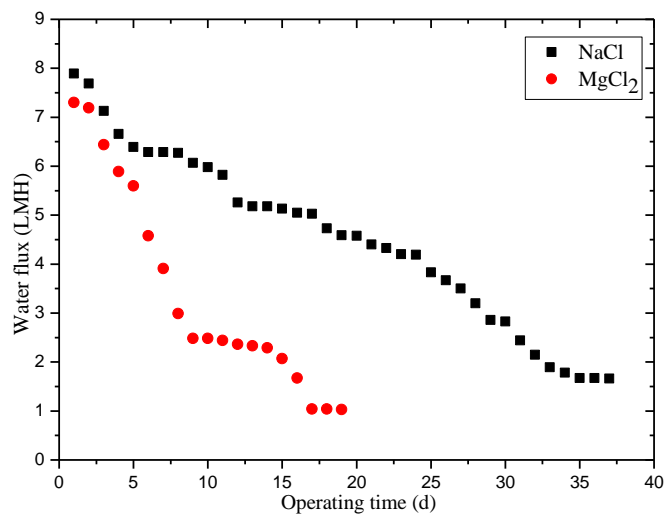


Fig. S1. Variations of water flux of MF membrane in both AnMF-OMBRs.

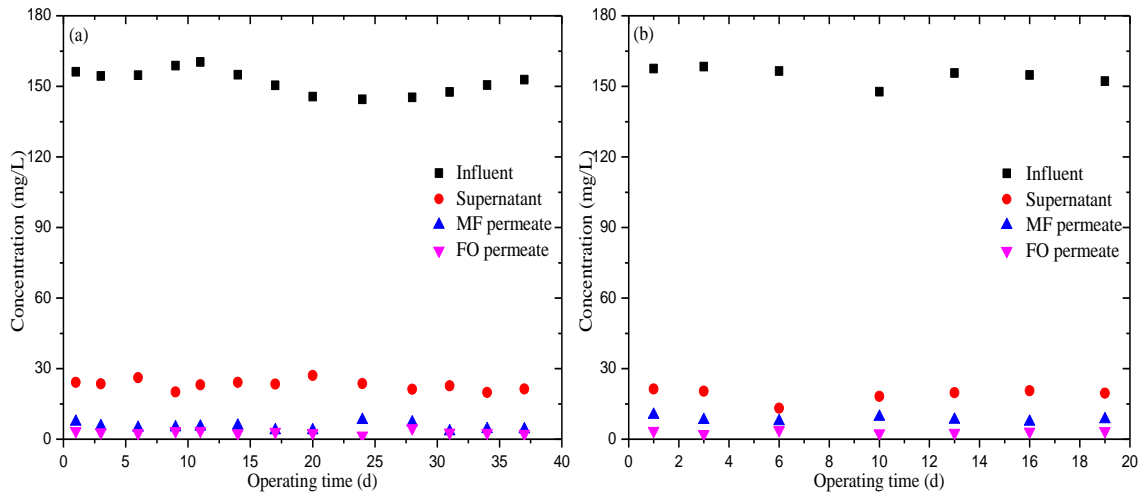


Fig. S2. Variations of TOC concentrations in the influent, sludge supernatant, MF and FO permeates in NaCl-reactor (a) and MgCl₂-reactor (b).

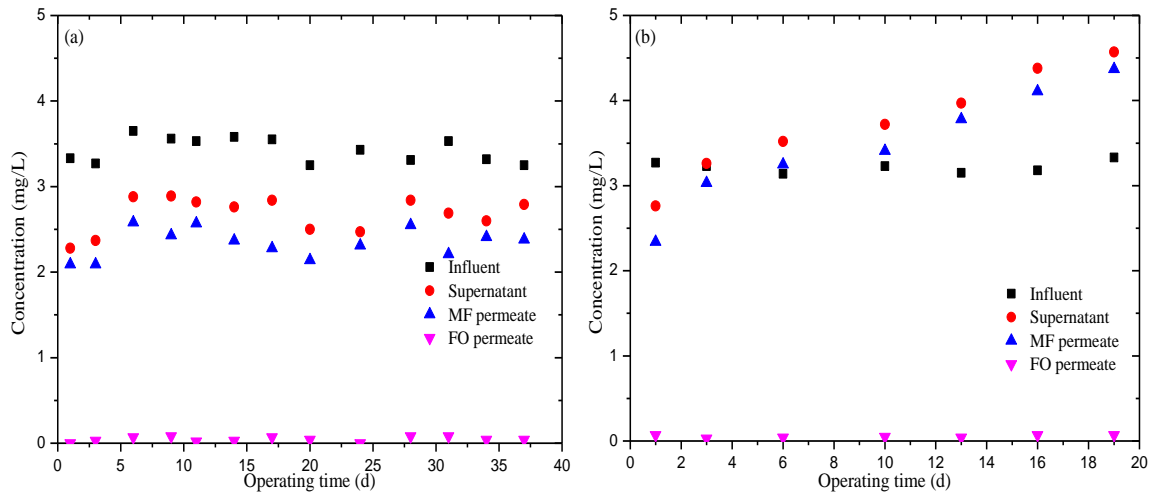


Fig. S3. Variations of TP concentrations in the influent, sludge supernatant, MF and FO permeates in NaCl-reactor (a) and MgCl₂-reactor (b).

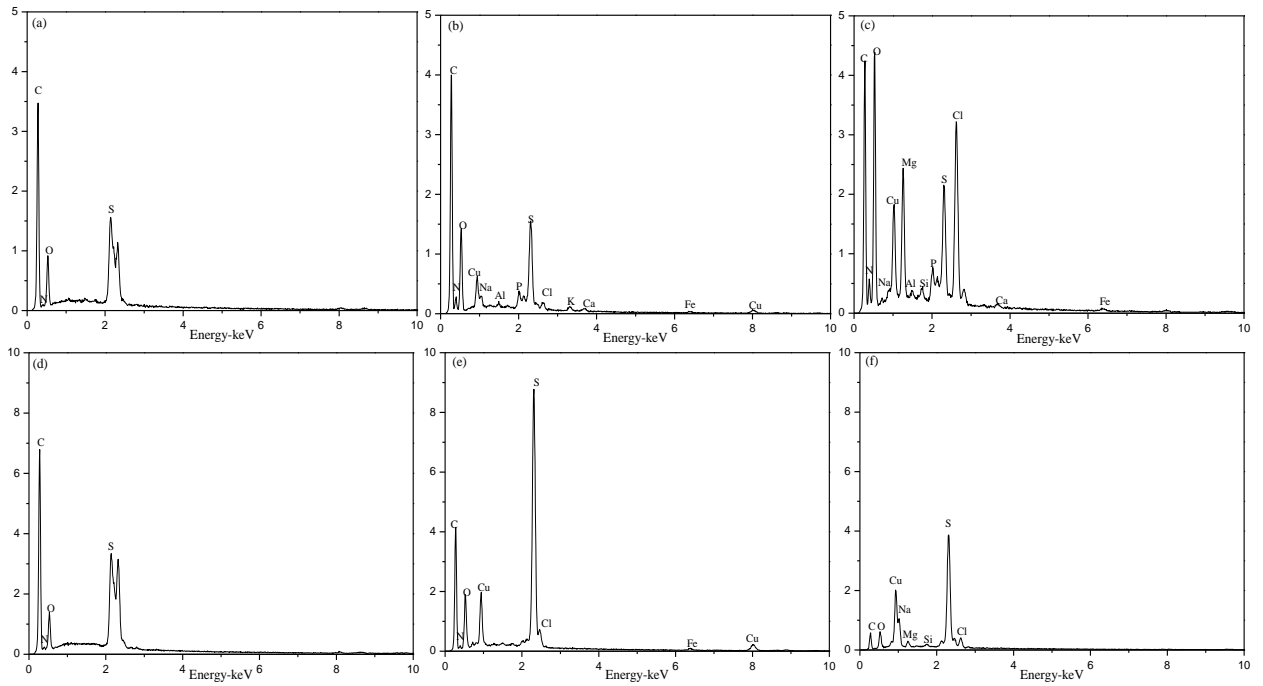


Fig. S4. EDX images of new and fouled FO membranes. (a) AL of the virgin FO membrane; (b) AL of the fouled FO membrane in the NaCl-reactor; (c) AL of the fouled FO membrane in the MgCl₂-reactor; (d) SL of the virgin FO membrane; (e) SL of the fouled FO membrane in the NaCl-reactor; (f) SL of the fouled FO membrane in the MgCl₂-reactor.

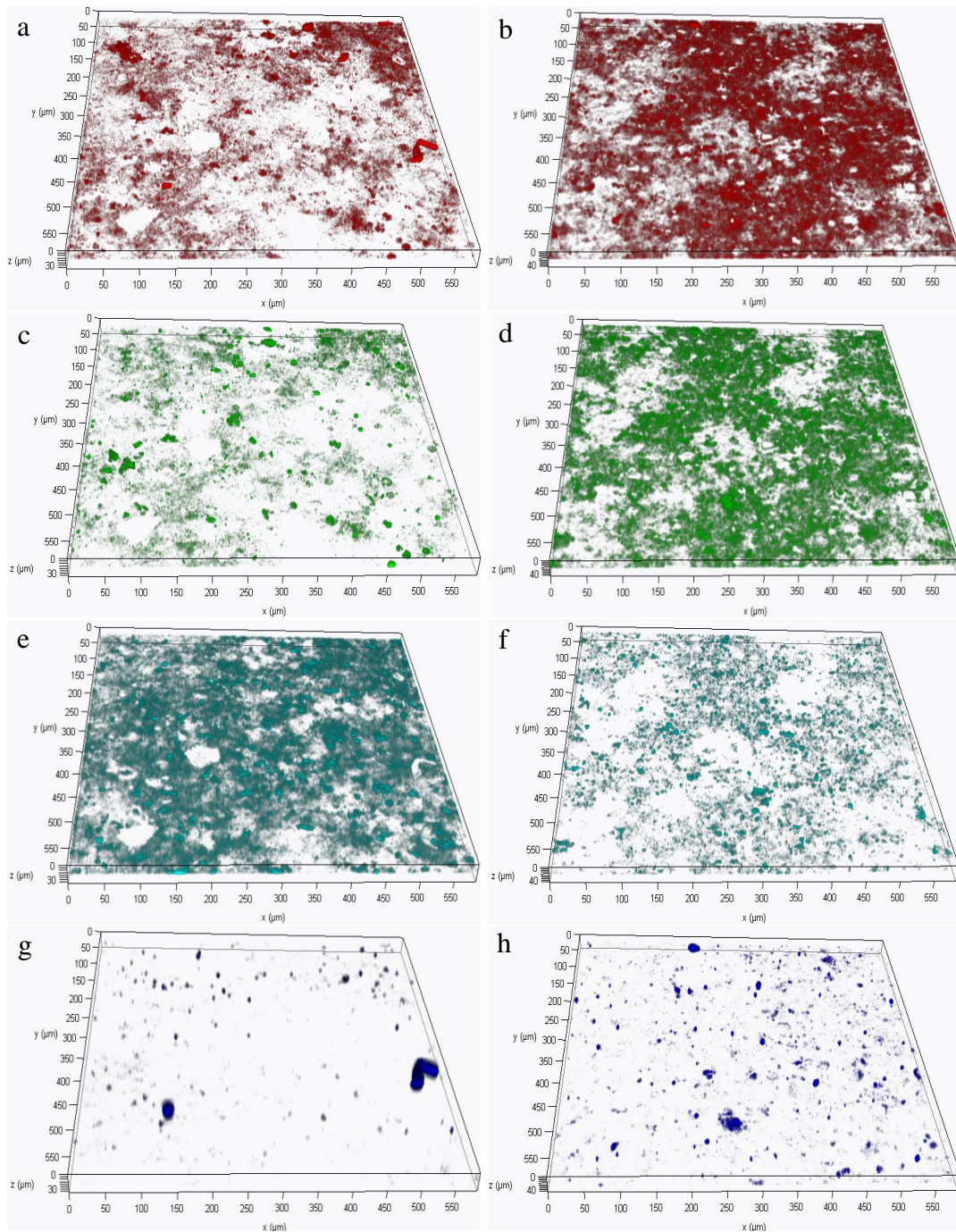


Fig. S5. CLSM images of total cells (SYTO 63), proteins (FITC), α -D-glucopyranose polysaccharides (Con A) and β -D-glucopyranose polysaccharides (CW) in the FO biofouling of AL. (a) and (b) total cells in the NaCl-reactor and MgCl_2 -reactor, respectively; (c) and (d) proteins in the NaCl-reactor and MgCl_2 -reactor, respectively; (e) and (f) α -D-glucopyranose polysaccharides in the NaCl-reactor and MgCl_2 -reactor, respectively; (g) and (h) β -D-glucopyranose polysaccharides in the NaCl-reactor and MgCl_2 -reactor, respectively.