Supplementary Materials

Mechanism Analysis of PFHxS Purification in Water by Nanofiltration under the Coexistence of Sodium Alginate and Ca^{2+} Based on DFT

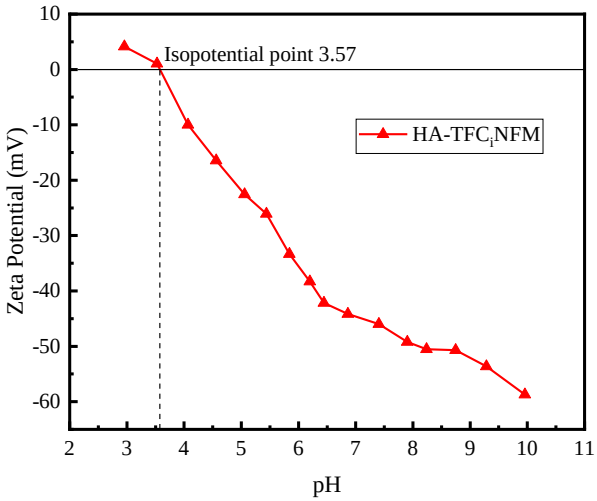


Figure S1. Zeta potential of HA-TFCiNFM.

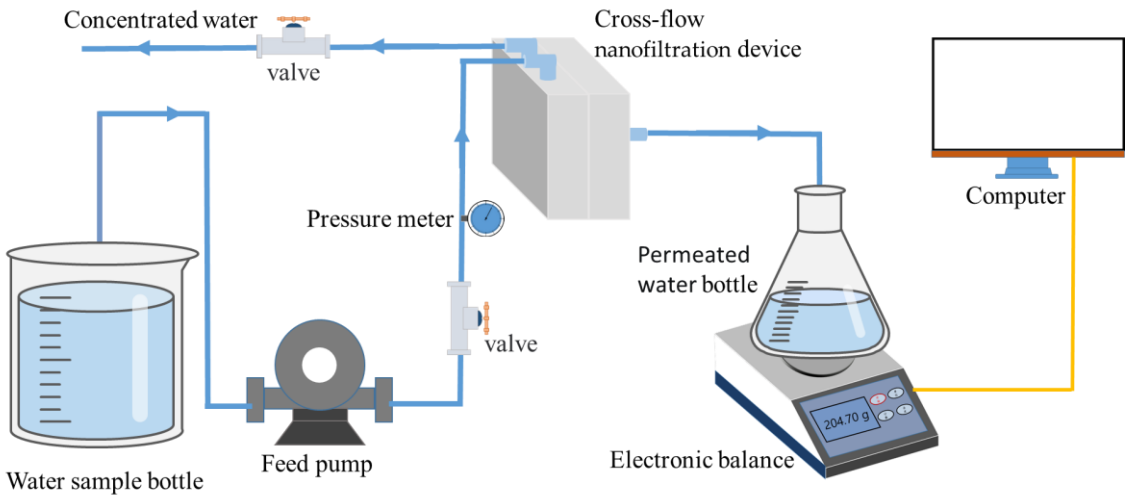


Figure S2. Schematic diagrams of the homemade cross-flow nanofiltration system.

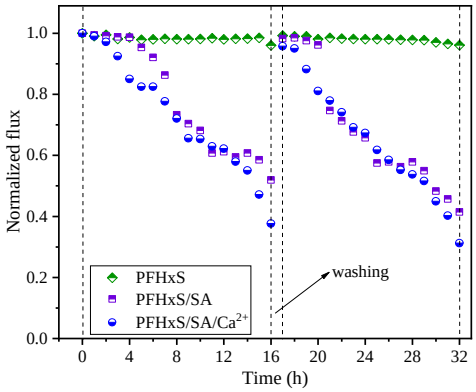


Figure S3. Changes in normalized flux with filtration time for HA-TFC-NFM under PFHxS/SA/Ca^{2+} system.

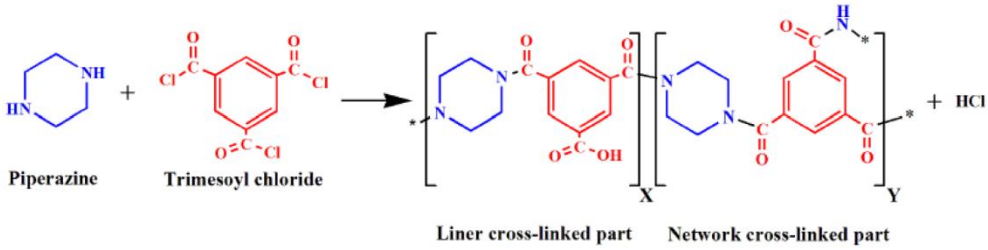


Figure S4. IP mechanism of PIP and TMC.

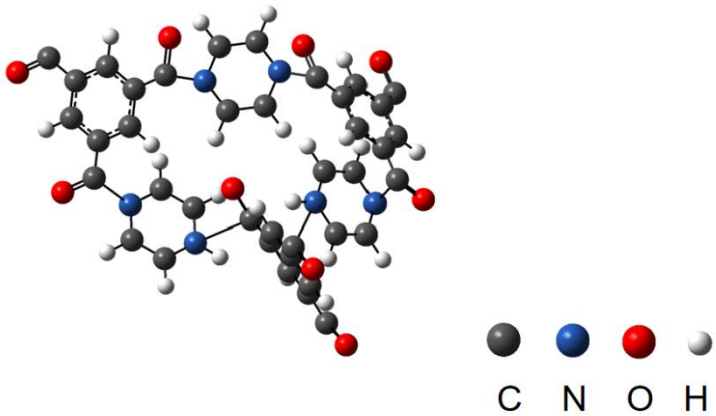
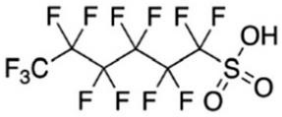


Figure S5. Three-dimensional structure of the membrane surface.

Table S1. The physical and chemical properties of PFHxS.

Acronym	MW (g mol^{-1})	Structure	pK_a	Log（K_{ow}）	Stokes radius（nm）
PFHxS	400.1		0.14	3.16	0.59