

# Membrane fouling in osmotically driven membrane processes: A review

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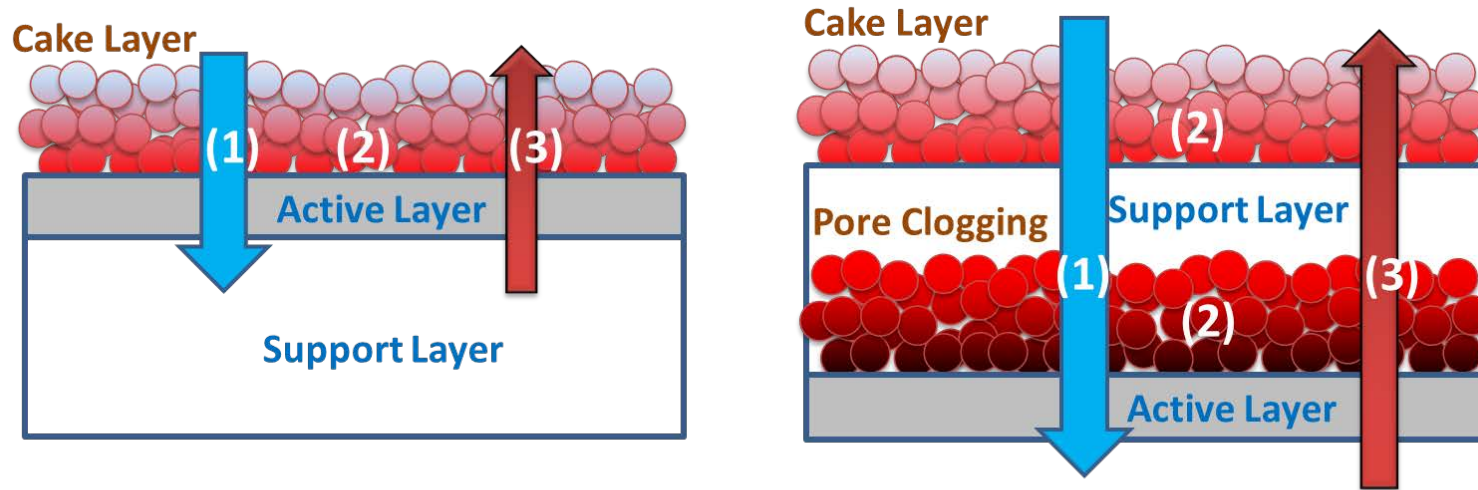
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## GRAPHIC ABSTRACT



(2) Fouling-enhanced CP ( $F_{ccp,f} > F_{ccp}$ )      (3) Change of rejection property ( $J_{s,f}/J_{w,f}$ )

$$J_{w,f} = \frac{(\pi_{ds} - \pi_{fs}) - \Delta P - F_{ccp,f} \left( \pi_{fs} + \frac{J_{s,f}}{J_{w,f}} \beta R_g T \right) - F_{dcp,f} \left( \pi_{ds} + \frac{J_{s,f}}{J_{w,f}} \beta R_g T \right)}{\mu(R_m + R_f)}$$

(1) Additional hydraulic resistance ( $R_f$ )