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Effect of driving force on the performance of anaerobic osmotic membrane bioreactors: New insight into enhancing water flux of FO membrane via controlling driving force in a two-stage pattern

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Abstract

Anaerobic osmotic membrane bioreactor (AnOMBR) has shown great promise for wastewater treatment and energy recovery. One of the major obstacles limiting the performance of the AnOMBR is the low water flux of forward osmosis (FO) membrane. Here, impacts of draw solution (DS) concentration on the performance of the AnOMBR were investigated for enhancing the water flux of FO membrane via controlling the driving force. The results indicated that the flux variations of FO membrane in the AnOMBR included two stages of a rapid and a mild flux

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