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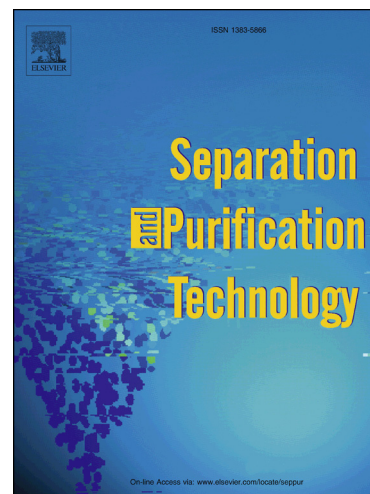
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Controlling disinfection by-products and organic fouling by integrated ferrihydrite—microfiltration process for surface water treatment

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Abstract

Controlling organic fouling and removing disinfection by-product (DBP) precursors remain challenges for the hybrid membrane process. Whether ferrihydrite (FH), an amorphous iron oxide, can achieve both targets when used as an adsorbent is unknown. Batch experiments of the hybrid FH adsorption–microfiltration (MF) process were performed to study the effects of organic components on mitigating membrane fouling

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