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Development of a method to measure TEP on fresh & saline water

By Ramesh Duraisamy

LAP Lambert Acad. Publ. Sep 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x7 mm. This item is printed on demand - Print on Demand Neuware - The ubiquitous presence of transparent exopolymer particles (TEP) in various water sources of membrane-based treatment plants and their ability to adhere to surfaces (high stickiness) and to initiate biofilm formation have led some experts to suggest that TEP may have a major role in organic and biological fouling of membrane systems. This paper aims discuss the latest knowledge on the possible link of TEP to membrane fouling, assess the currently available techniques to identify/measure TEP and how this can be applied in membrane fouling studies. Staining with Alcian blue is so far the most feasible way to assess TEP in water and in fouled membrane samples. Alcian blue was found to react specifically with acidic polysaccharides based on tests with model polysaccharides (neutral and anionic) and protein substances at pH 2.5. Under this condition, the relative concentration of TEP in water can be measured spectrophotometrically at 787 nm wavelength. The current TEP method is also an indirect measure of anion density of TEP, an indication of how surface-active and sticky these substances are; thus, a...

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