## Accepted Manuscript

Title: Enhanced antifouling performance of halloysite nanotubes (HNTs) blended poly(vinyl chloride) (PVC/HNTs) ultrafiltration membranes: for water treatment



Author: Gourav Mishra Mausumi Mukhopadhyay

PII:	S1226-086X(18)30107-2
DOI:	https://doi.org/doi:10.1016/j.jiec.2018.02.037
Reference:	JIEC 3897

To appear in:

Received date:	17-11-2017
Revised date:	26-1-2018
Accepted date:	25-2-2018

Please cite this article as: G. Mishra, M. Mukhopadhyay, Enhanced antifouling performance of halloysite nanotubes (HNTs) blended poly(vinyl chloride) (PVC/HNTs) ultrafiltration membranes: for water treatment, *Journal of Industrial and Engineering Chemistry* (2018), https://doi.org/10.1016/j.jiec.2018.02.037

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## ACCEPTED MANUSCRIPT

## Highlights

- > PVC/HNTs membranes were successfully synthesized via phase inversion method.
- > EDX mapping confirms that HNTs uniformly dispersed in PVC membrane matrix.
- > The PVC/HNTs membrane with 2wt% HNTs showed maximum fouling resistance.
- > The BSA rejection rate of PVC/HNTs membranes was more than 90%.
- ➢ HNTs increased the maximum tensile strength and elongation break of membrane.

A contraction of the second se

Download English Version:

https://daneshyari.com/en/article/6666541

Download Persian Version:

https://daneshyari.com/article/6666541

Daneshyari.com