Accepted Manuscript

Fabrication of composite membrane with adsorption property and its application to the removal of endocrine disrupting compounds during filtration process

Yingwen Zhu, Junfu Wei, Huan Zhang, Kai Liu, Zhiyun Kong, Yu Dong, Ge Jin, Jian Tian, Zhi Qin

PII: DOI: Reference:	S1385-8947(18)31228-2 https://doi.org/10.1016/j.cej.2018.06.182 CEJ 19393
To appear in:	Chemical Engineering Journal
Received Date:	28 April 2018
Revised Date:	27 June 2018
Accepted Date:	28 June 2018



Please cite this article as: Y. Zhu, J. Wei, H. Zhang, K. Liu, Z. Kong, Y. Dong, G. Jin, J. Tian, Z. Qin, Fabrication of composite membrane with adsorption property and its application to the removal of endocrine disrupting compounds during filtration process, *Chemical Engineering Journal* (2018), doi: https://doi.org/10.1016/j.cej. 2018.06.182

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

Fabrication of composite membrane with adsorption property and its

application to the removal of endocrine disrupting compounds during filtration

process¹

Yingwen Zhu^{a,c}, Junfu Wei^{a,b,d,*}, Huan Zhang^{a,b,d}, Kai Liu^e, Zhiyun Kong^{a,b}, Yu Dong^{a,b}, Ge Jin^{a,b}, Jian

Tian^{a,b}, Zhi Qin^{a,c}

a. State Key Laboratory of Separation Membranes and Membrane Processes, Tianjin Polytechnic

University, Tianjin 300387, China

b. School of Environmental and Chemical Engineering, Tianjin Polytechnic University, Tianjin 300387,

China

c. School of Materials Science and Engineering, Tianjin Polytechnic University, Tianjin 300387, China

d. Tianjin Engineering Center for Safety Evaluation of Water Quality & Safeguards Technology,

Tianjin 300387, China

e. Shandong Mem-Resource Water Purification Technology Co., Ltd., Jinan 250216, China.

* Correspondence to: Junfu Wei *(junfuwei1963@163.com).

School of Environmental and Chemical Engineering, Tianjin Polytechnic University, Tianjin 300387,

China.

Tel.: +86-022-8395-5898

¹ Abbreviations: bisphenolA (BPA); stearyl acrylate (SA); hydroxyethyl acrylate (HEA); polyvinylidene fluoride (PVDF); polypropylene (PP); endocrine disrupting compounds (EDCs); phthalate acid esters (PAEs); dimethyl phthalate (DMP); dibutyl phthalate (DBP); dioctyl phthalate (DOP); nonyl phenol (NP); dimethylacetamide (DMAc); polyethylene glycol (PEG); molecule weights (M_w); degree of grafting (DG); scanning electron microscopy (SEM); total organic carbon (TOC); pure water flux (PWF).

Download English Version:

https://daneshyari.com/en/article/6578150

Download Persian Version:

https://daneshyari.com/article/6578150

Daneshyari.com