

## Accepted Manuscript

Title: A review of polymeric membranes and processes for potable water reuse

Authors: David M. Warsinger, Sudip Chakraborty, Emily W. Tow, Megan H. Plumlee, Christopher Bellona, Savvina Loutatidou, Leila Karimi, Anne M. Mikelonis, Andrea Achilli, Abbas Ghassemi, Lokesh P. Padhye, Shane A. Snyder, Stefano Curcio, Chad Vecitis, Hassan A. Arafat, John H. Lienhard V



PII: S0079-6700(17)30010-2  
DOI: <https://doi.org/10.1016/j.progpolymsci.2018.01.004>  
Reference: JPPS 1067

To appear in: *Progress in Polymer Science*

Received date: 10-1-2017  
Revised date: 14-10-2017  
Accepted date: 28-1-2018

Please cite this article as: Warsinger David M, Chakraborty Sudip, Tow Emily W, Plumlee Megan H, Bellona Christopher, Loutatidou Savvina, Karimi Leila, Mikelonis Anne M, Achilli Andrea, Ghassemi Abbas, Padhye Lokesh P, Snyder Shane A, Curcio Stefano, Vecitis Chad, Arafat Hassan A, Lienhard John H.A review of polymeric membranes and processes for potable water reuse.*Progress in Polymer Science* <https://doi.org/10.1016/j.progpolymsci.2018.01.004>

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.

## A review of polymeric membranes and processes for potable water reuse

David M. Warsinger<sup>a,b</sup>, Sudip Chakraborty<sup>c,d</sup>, Emily W. Tow<sup>a</sup>, Megan H. Plumlee<sup>e</sup>, Christopher Bellona<sup>f</sup>, Savvina Loutatidou<sup>d</sup>, Leila Karimi<sup>g,h</sup>, Anne M. Mikelonis<sup>i</sup>, Andrea Achilli<sup>j</sup>, Abbas Ghassemi<sup>g</sup>, Lokesh P. Padhye<sup>k</sup>, Shane A. Snyder<sup>j,l</sup>, Stefano Curcio<sup>c</sup>, Chad Vecitis<sup>b</sup>, Hassan A. Arafat<sup>d</sup>, John H. Lienhard V<sup>a</sup>

- <sup>a</sup> Rohsenow Kendall Heat Transfer Laboratory, Department of Mechanical Engineering Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge MA 02139-4307 USA
- <sup>b</sup> Harvard School of Engineering and Applied Sciences, 29 Oxford Street, Cambridge, MA 02138, USA
- <sup>c</sup> Laboratory of Transport Phenomena and Biotechnology, Department of Computer Engineering, Modeling, Electronic and Systems, University of Calabria, Via P. Bucci, Cubo 39/C, 87036 Rende, CS, Italy
- <sup>d</sup> Institute Center for Water and Environment (iWATER), Department of Chemical and Environmental Engineering, Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emirates, PO Box 54224, Abu Dhabi, UAE
- <sup>e</sup> Orange County Water District (OCWD), Research and Development Department, 18700 Ward Street, Fountain Valley, CA 92708
- <sup>f</sup> Department of Civil & Environmental Engineering, Colorado School of Mines, Coolbaugh Hall, 1012 14th St., Golden, CO 80401, USA
- <sup>g</sup> Institute for Energy and the Environment/WERC, New Mexico State University, Las Cruces, NM 88003-8001, USA
- <sup>h</sup> School of Chemical, Biological and Materials Engineering, University of Oklahoma, 110 East Boyd Street, Norman, OK
- <sup>i</sup> Office of Research and Development, National Homeland Security Research Center, U.S. Environmental Protection Agency (MD-E343-06), 109 T.W. Alexander Dr., Research Triangle Park, NC 27711, USA <sup>j</sup> Chemical & Environmental Engineering, University of Arizona, 1133 E. James E. Rogers Way, Tucson, Arizona 85721 USA
- <sup>k</sup> Civil & Environmental Engineering, The University of Auckland, Private Bag 92019, Auckland 1142, New Zealand
- <sup>l</sup> National University of Singapore, NUS Environmental Research Institute (NERI), 5A Engineering Drive 1; T-Lab Building, #02-01; Singapore 117411

Download English Version:

<https://daneshyari.com/en/article/7825786>

Download Persian Version:

<https://daneshyari.com/article/7825786>

[Daneshyari.com](https://daneshyari.com)