

Author's Accepted Manuscript

Antifouling polyimide membrane with surface-bound silver particles

Dong Yan Zhang, Jie Liu, Yu Sheng Shi, Yan Wang, Hong Fang Liu, Qiao Li Hu, Li Su, Jun Zhu



PII: S0376-7388(16)30614-7
DOI: <http://dx.doi.org/10.1016/j.memsci.2016.06.012>
Reference: MEMSCI14551

To appear in: *Journal of Membrane Science*

Received date: 25 December 2015
Revised date: 27 May 2016
Accepted date: 8 June 2016

Cite this article as: Dong Yan Zhang, Jie Liu, Yu Sheng Shi, Yan Wang, Hong Fang Liu, Qiao Li Hu, Li Su and Jun Zhu, Antifouling polyimide membrane with surface-bound silver particles, *Journal of Membrane Science* <http://dx.doi.org/10.1016/j.memsci.2016.06.012>

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 a review of the resulting galley proof before it is published in its final citable 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

Antifouling polyimide membrane with surface-bound silver particles

Dong Yan Zhang,^{a,b} Jie Liu,^a Yu Sheng Shi,^a Yan Wang,^{b,c,*} Hong Fang Liu,^{b,c} Qiao
Li Hu,^d Li Su,^d Jun Zhu^{a,*}

^a State key Laboratory of Materials Processing and Die & Mould Technology, Huazhong University of Science and Technology, Wuhan 430074, China.

^b Key Laboratory of Material Chemistry for Energy Conversion and Storage (Huazhong University of Science and Technology), Ministry of Education, Wuhan, 430074, China

^c Hubei Key Laboratory of Material Chemistry and Service Failure, School of Chemistry and Chemical Engineering, Huazhong University of Science & Technology, Wuhan, 430074, P.R. China

^d Key Laboratory of Molecular Biophysics of the Ministry of Education, College of Life Science and Technology, Huazhong University of Science and Technology, 1037 Luoyu Road, Wuhan 430074, China

* Corresponding author.

Prof. Yan Wang, Tel.: 86 13871464406; fax: 86 027-87543632; Email address:

wangyan@hust.edu.cn

Prof. Jun Zhu, Tel: 86 13901094015; fax: 86 027-87558155; Email address:

zhujun@hust.edu.cn

Abstract

To improve antifouling and antibacterial properties of the polyimide (PI) membrane, silver particles are grafted on the membrane surface via a three-step modification

Download English Version:

<https://daneshyari.com/en/article/7020585>

Download Persian Version:

<https://daneshyari.com/article/7020585>

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