Accepted Manuscript

Title: Morphology-properties relationship of gas plasma treated hydrophobic meso-porous membranes and their improved performance for desalination by membrane distillation



Author: Ludovic F. Dumée Hortense Alglave Thomas Chaffraix Bao Lin Kevin Magniez Jürg Schütz

PII:	S0169-4332(15)03028-7
DOI:	http://dx.doi.org/doi:10.1016/j.apsusc.2015.12.034
Reference:	APSUSC 32016
To appear in:	APSUSC
Received date:	12-10-2015
Revised date:	1-12-2015
Accepted date:	4-12-2015

Please cite this article as: L.F. Dumée, H. Alglave, T. Chaffraix, B. Lin, K. Magniez, J. Schütz, Morphology-properties relationship of gas plasma treated hydrophobic meso-porous membranes and their improved performance for desalination by membrane distillation, *Applied Surface Science* (2015), http://dx.doi.org/10.1016/j.apsusc.2015.12.034

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:

- Systematic surface modifications by gas plasma treatment of hydrophobic polymers
- Correlation between plasma parameters and materials surface energy and morphology
- Spectral analysis of the formation of functional groups across the membranes surface
- Relationship between wettability, roughness and performance

A contraction of the second

Download English Version:

https://daneshyari.com/en/article/5355814

Download Persian Version:

https://daneshyari.com/article/5355814

Daneshyari.com