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Title: Fabrication of tethered carbon nanotubes in cellulose acetate/polyethylene glycol-400 composite membranes for reverse osmosis

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PII: S0144-8617(15)00542-1
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2015.06.035>
Reference: CARP 10024

To appear in:

Received date: 7-4-2015
Revised date: 10-6-2015
Accepted date: 11-6-2015

Please cite this article as: <doi><http://dx.doi.org/10.1016/j.carbpol.2015.06.035></doi>

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1 **Highlights**

- 2 • Surface Engineered-Multiwall CarbonNanoTubes (SE-MWCNT) made by dissolution
3 casting
- 4 • SEM micrographs of PM/SE-MWCNTs showed uniform dispersed dense structured
5 membranes
- 6 • PM/SE-MWCNTs composite membranes improved salt rejection properties up to 99.8%
- 7 • Thermal properties augmented PM/SE-MWCNTs composite membrane compared to PM
8 membrane

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