

Accepted Manuscript

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PII: S1385-8947(17)31861-2
DOI: <https://doi.org/10.1016/j.cej.2017.10.147>
Reference: CEJ 17931

To appear in: *Chemical Engineering Journal*

Received Date: 24 July 2017
Revised Date: 21 October 2017
Accepted Date: 25 October 2017

Please cite this article as: N.E. Salim, J. Jaafar, A.F. Ismail, M.H.D. Othman, M.A. Rahman, N. Yusof, M. Qtaishat, T. Matsuura, F. Aziz, W.N.W. Salleh, Preparation and Characterization of Hydrophilic Surface Modifier Macromolecule Modified Poly (ether sulfone) Photocatalytic Membrane for Phenol Removal, *Chemical Engineering Journal* (2017), doi: <https://doi.org/10.1016/j.cej.2017.10.147>

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Preparation and Characterization of Hydrophilic Surface Modifier Macromolecule Modified Poly (ether sulfone) Photocatalytic Membrane for Phenol Removal

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Abstract

A modified poly (ether sulfone) (PES) by hydrophilic surface modifying macromolecules (LSMM) incorporated with oxygenated graphitic carbon nitride (OGCN) photocatalyst (PES/OGCN-LSMM) was successfully prepared as a hybrid photocatalytic membrane. The effect of solvent evaporation time during membrane fabrication was studied by focusing on the positioning of LSMM in order to provide the desirable properties of the PES/OGCN-LSMM hybrid membrane for phenol removal performance by photocatalytic and

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