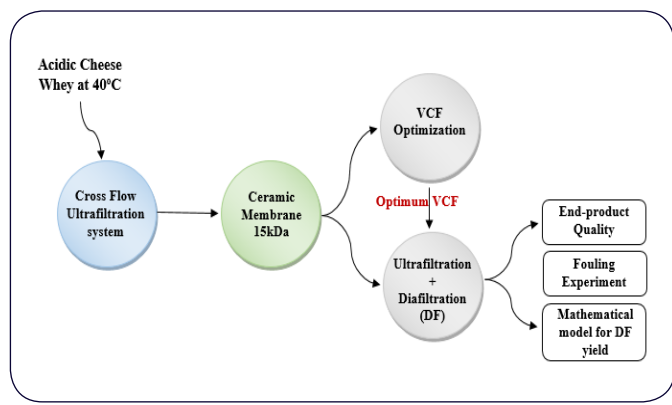


## Graphical Abstracts

## Research Paper

**Performance Evaluation of Ceramic Membrane on Ultrafiltration and Diafiltration Modes for Efficient Recovery of Whey Protein**Sama A. Al-Mutwalli <sup>1</sup>, Mehmet Dilaver <sup>2</sup>, Derya Y. Koseoglu-Imer <sup>1,\*</sup><sup>1</sup> Environmental Engineering Department, Istanbul Technical University, Istanbul, Turkey<sup>2</sup> TUBITAK Marmara Research Center Environment and Cleaner Production Institute, Kocaeli, Turkey

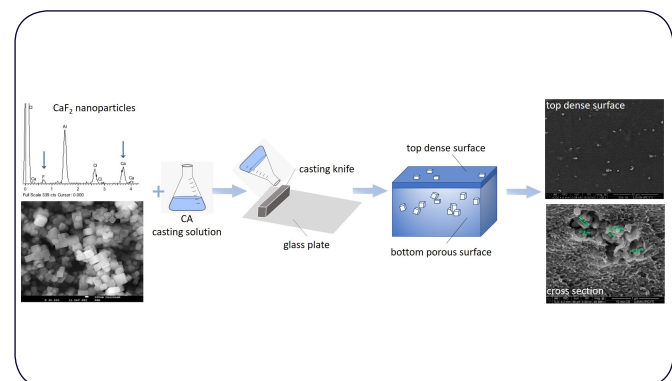
DOI: 10.22079/JMSR.2019.115152.1295



## Research Paper

**Synthesis of Calcium Fluoride Ultrafine Particles for the Preparation of Integral Asymmetric Cellulose Acetate/Calcium Fluoride Membranes**Andrea Molina Estrada<sup>1</sup>, Mónica Faria <sup>2</sup>, Gladis Judith Labrada Delgado <sup>3</sup>, Maria Norberta de Pinho <sup>2,\*</sup>, María Guadalupe Sánchez Loredó <sup>1</sup><sup>1</sup> Instituto de Metalurgia, Universidad Autónoma de San Luis Potosí, Sierra Leona 550, 78210 San Luis Potosí, S.L.P., Mexico<sup>2</sup> CeFEMA and Department of Chemical Engineering, Universidade de Lisboa - Instituto Superior Técnico, Av. Rovisco Pais, 1049-001 Lisbon, Portugal<sup>3</sup> Instituto Potosino de Investigación Científica y Tecnológica, Camino a la Presa San José 2055, 78216 San Luis Potosí, Mexico

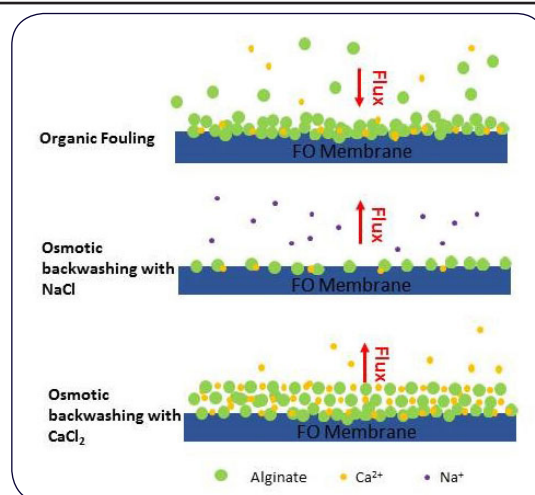
DOI: 10.22079/JMSR.2020.118838.1314



## Research Paper

**Mechanisms Involved in Osmotic Backwashing of Fouled Forward Osmosis (FO) Membranes**Sorcha Daly <sup>1</sup>, Andrea J.C. Semião <sup>2,\*</sup><sup>1</sup> Formerly School of Engineering, University of Edinburgh. Currently School of Chemical and Bioprocess Engineering, University College Dublin (UCD), Belfield, Dublin 4, Ireland<sup>2</sup> School of Engineering, University of Edinburgh, Edinburgh EH9 3JL, UK

DOI: 10.22079/JMSR.2020.118843.1315



## Graphical Abstracts

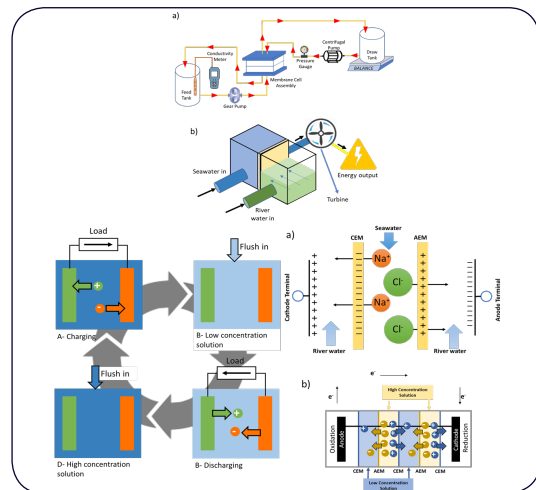
Review Paper

**Modification of Polymeric Membrane for Energy Generation through Salinity Gradient: A Short Review**

Syafiq Izzany Sharudin, Pei Sean Goh \*, Ahmad Fauzi Ismail, Ng Be Cheer

Advanced Membrane Technology Research Centre, School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 Johor Bahru, Malaysia

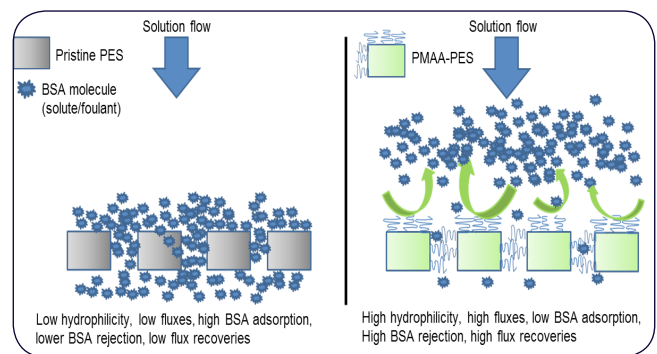
DOI: 10.22079/JMSR.2019.115128.1294



Research Paper

**Heterogeneous Functionalization of Polyethersulfone: A New Approach for pH-Responsive Microfiltration Membranes with Enhanced Antifouling Properties**Lwazi Ndlwana <sup>1,2</sup>, Kenciloe Sikhwivhilu <sup>1,\*</sup>, Richard Moutloali <sup>1</sup>, Jane Catherine Ngila <sup>1</sup><sup>1</sup> Department of Chemical Sciences, Faculty of Science, University of Johannesburg, P. O. Box 17011, Doornfontein 2028, Johannesburg, South Africa<sup>2</sup> DST/Mintek Nanotechnology Innovation Centre, Advanced Materials Division, Mintek, 200 Malibongwe Drive, Randburg, 2125, Johannesburg, South Africa

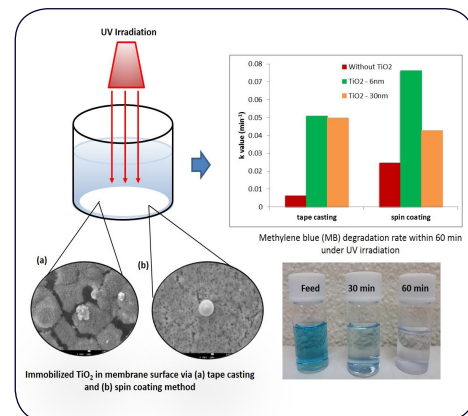
DOI: 10.22079/JMSR.2019.99706.1238



Research Paper

**Efficient Immobilised TiO<sub>2</sub> in Polyvinylidene fluoride (PVDF) Membrane for Photocatalytic Degradation of Methylene Blue**Hazlini Dzinun <sup>1,2,\*</sup>, Yo Ichikawa <sup>2</sup>, Mitsuhiro Honda <sup>2</sup>, Qiyan Zhang <sup>2</sup><sup>1</sup> Centre for Diploma Studies (CeDS), Universiti Tun Hussein Onn Malaysia, 84600 Muar, Johor, Malaysia<sup>2</sup> Department of Physical Science and Engineering, Faculty of Engineering, Nagoya Institute of Technology, Gokiso-cho, Showa-ku, Nagoya, Aichi, 466-8555 Japan

DOI: 10.22079/JMSR.2019.106656.1263



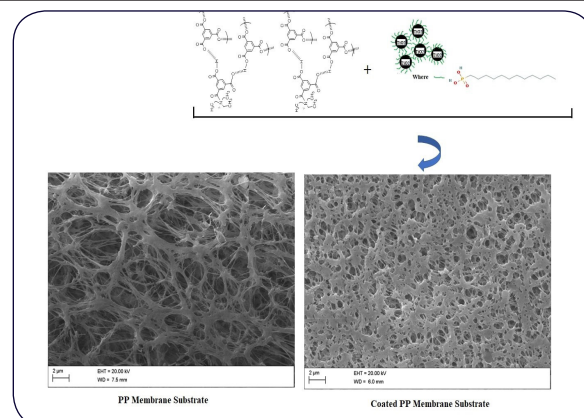
Research Paper

**A Facile Approach of Thin Film Coating Consisted of Hydrophobic Titanium Dioxide over Polypropylene Membrane for Membrane Distillation**

Rajasha Kumar \*, Mansour Ahmed, Garudachari Bhadrachari, Abbas Al-Mesri, Jibu P. Thomas

Water Research Center, Kuwait Institute for Scientific Research, P.O. Box 24885, 13109 Safat, Kuwait

DOI: 10.22079/JMSR.2019.110904.1273



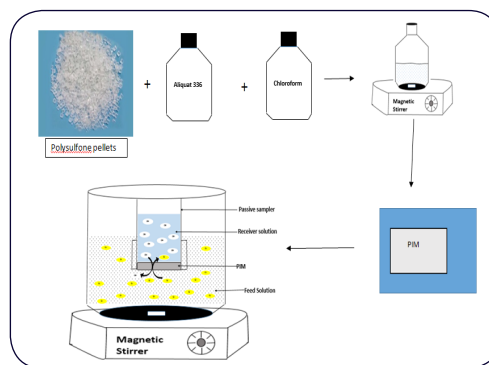
## Graphical Abstracts

**Feasibility of polysulfone as base polymer in a polymer inclusion membrane: Synthesis and Characterisation**

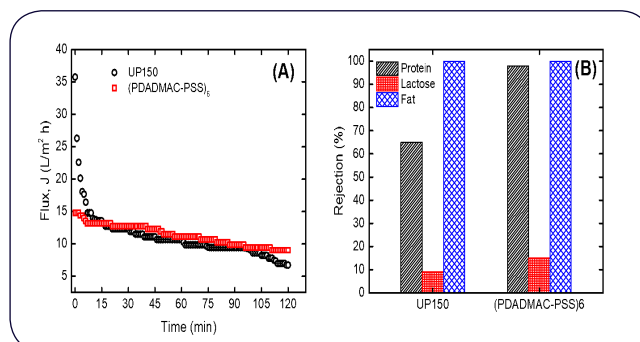
Phumlile Kunene, Olusola Akinbami, Nthabiseng Motsoane, Hlanganani Tutu, Luke Chimuka, Heidi Richards \*

Molecular Sciences Institute, University of Witwatersrand, Private Bag X3, Johannesburg, 2050, South Africa

DOI: 10.22079/JMSR.2019.111596.1278

**Protein and Lactose Separation by Modified Ultrafiltration Membrane using Layer by Layer Technique**Zeynep Bilici <sup>1</sup>, Bulent Keskinler <sup>2</sup>, Nuriye Altınay Perendeci <sup>3</sup>, Nadir Dizge <sup>1,\*</sup><sup>1</sup> Department of Environmental Engineering, Mersin University, Mersin, 33343, Turkey<sup>2</sup> Department of Environmental Engineering, Gebze Technical University, Kocaeli, 41400, Turkey<sup>3</sup> Department of Environmental Engineering, Akdeniz University, Antalya, 07058, Turkey

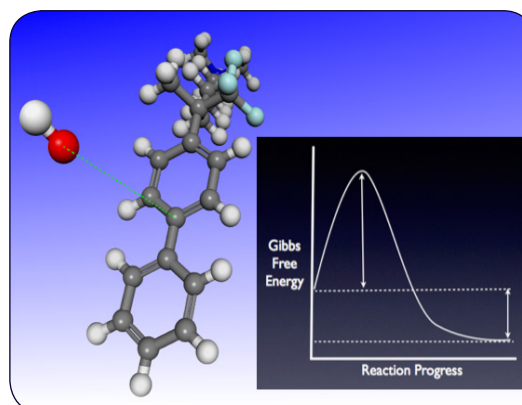
DOI: 10.22079/JMSR.2019.114560.1291

**Alkaline Stability of Novel Aminated Polyphenylene-Based Polymers in Bipolar Membranes**

Rodrigo J. Martínez, Yingying Chen, Don Gervasio, James C. Baygents, James Farrell \*

Department of Chemical and Environmental Engineering, University of Arizona, 1133 E. James E. Rogers Way, Tucson, AZ 85721 USA

DOI: 10.22079/JMSR.2019.115517.1298

**Cellulose Acetate Nanofiltration Membranes for Cadmium Remediation**Ibtissem Ounifi <sup>1,2,\*</sup>, Claudia Ursino <sup>3</sup>, Sergio Santoro <sup>4</sup>, Jalila Chekir <sup>1</sup>, Amor Hafiane <sup>1</sup>, Alberto Figoli <sup>3,\*</sup>, Ezzedin Ferjani <sup>5</sup><sup>1</sup> Laboratory, water, membrane and environmental biotechnology, Centre of Research and Water Technologies, Technopark of Borj-Cedria, BP 273, 8020 Soliman, Tunisia<sup>2</sup> Faculty of Sciences of Tunis, University of Tunis - El Manar, 20 Toled street, Tunis 2092<sup>3</sup> Institute on Membrane Technology (ITM-CNR), Via P. Bucci 17c, 87036 Rende (CS), Italy<sup>4</sup> Department of Environmental Engineering (DIAM), Università della Calabria, Via Pietro Bucci, Cubo 44/A, 87036 Rende (CS), Italy<sup>5</sup> Higher Institute of Sciences and Technology of Environment of Borj-CedriaBp 2050 Borj-Cedria, Tunisia

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