



## Table of Contents

## Structure Formation in Anode and Its Effect on the Performance of Micro-Tubular SOFC: A Brief Review

Siti Munira Jamil <sup>1,2</sup>, Siti Halimah Ahmad <sup>1,2</sup>, Mazlinda Ab Rahman <sup>1,2</sup>, Mohd Hafiz Dzarfan Othman <sup>1,2,\*</sup>, Mukhlis A Rahman <sup>1</sup>, Juhana Jaafar <sup>1</sup>, Ahmad Fauzi Ismail <sup>1</sup>

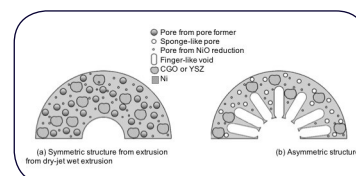
<sup>1</sup> Advanced membrane Technology Research Centre, Universiti Teknologi Malaysia, 81310 UTM JB, Johor, Malaysia

<sup>2</sup> Renewable Energy Research Group, Department of Energy Engineering, Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia, 81310 UTM JB, Johor, Malaysia

Email: hafiz@petroleum.utm.my (M.H.D. Othman)

Page: 197-204

DOI: 10.22079/JMSR.2018.83592.1187



Review Paper

## Poly (Ether Ether Ketone) Based Anion Exchange Membrane for Solid Alkaline Fuel Cell: A Review

Syarifah Noor Syakiyilla Sayed Daud <sup>1</sup>, Juhana Jaafar <sup>1,\*</sup>, Muhammad Noorul Anam Mohd Norddin <sup>1,\*</sup>, Rubita Sudirman <sup>2</sup>

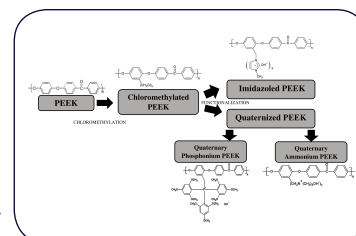
<sup>1</sup> Advanced Membrane Technology Research Centre (AMTEC), School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

<sup>2</sup> School of Electrical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

E-mail: juhana@petroleum.utm.my (J. Jaafar); anam@petroleum.utm.my (M.N.A.M. Norddin)

Page: 205-215

DOI: 10.22079/JMSR.2018.86969.1194



Review Paper

## Separation Performance of Improved PERVAP™ Membrane and Its Dependence on Operating Conditions

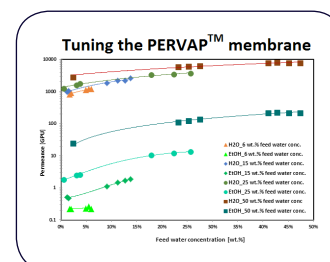
Wilfredo Yave

Research and Development Department, DeltaMem AG, Rothausstrasse 61, MuttENZ CH-4132, Switzerland

E-mail: wilfredo.yave@deltamem.ch (W. Yave)

Page: 216-221

DOI: 10.22079/JMSR.2018.88186.1198



Research Paper

## Table of Contents

## Polysulfone Ultrafiltration Membranes Modified with Carbon-Coated Alumina Supported Ni-TiO<sub>2</sub> Nanoparticles for Water Treatment: Synthesis, Characterization and Application

Bhekani S. Mbuli, Mphilisi M. Mahlambi, Catherine J. Ngila, Richard M. Moutloali \*

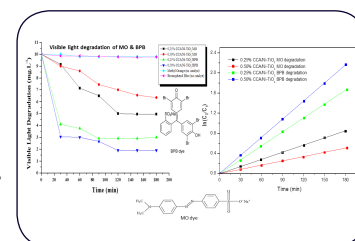
Department of Chemical Sciences, University of Johannesburg, P.O. Box 17011, Doornfontein, 2028, Johannesburg, South Africa

DST/Mintek Nanotechnology Innovation Centre - Water Research Node, Private Bag X3015, Randburg, 2125, South Africa

E-mail: [rmoutloali@uj.ac.za](mailto:rmoutloali@uj.ac.za) (R.M. Moutloali)

Page: 222-232

DOI: 10.22079/JMSR.2018.80046.1173



Research Paper

## Separation of Carboxylic Acids from Aqueous Solutions using Hollow Fiber Membrane Contactors

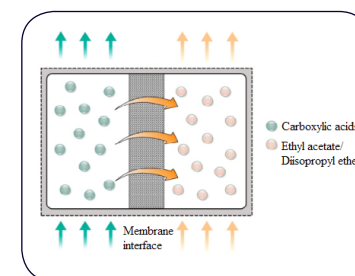
K. Sofiya \*, E. Poonguzhali, Ashish Kapoor, Philip Delfino, S. Prabhakar

Department of Chemical Engineering, SRM Institute of Science and Technology, Kattankulathur- 603203, Tamil Nadu, India

E-mail: [ksofiya26@yahoo.co.in](mailto:ksofiya26@yahoo.co.in); [sofiya.k@ktr.srmuniv.ac.in](mailto:sofiya.k@ktr.srmuniv.ac.in) (K. Sofiya)

Page: 233-239

DOI: 10.22079/JMSR.2018.88804.1199



Research Paper

## Influence of Membrane Sealing in Pressure-Driven Test Cells on Their Performance

Marc Fernández de Labastida <sup>1,\*</sup>, Andriy Yaroshchuk <sup>2</sup>

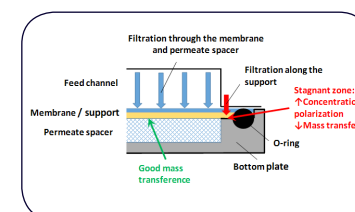
<sup>1</sup> Department of Chemical Engineering and Barcelona Research Center in Multiscale Science and Engineering, Polytechnic University of Catalonia – BarcelonaTech, C/ Eduard Maristany 10-14 (Campus Diagonal-Besòs), 08930, Barcelona, Spain

<sup>2</sup> Department of Chemical Engineering, Polytechnic University of Catalonia – BarcelonaTech, av. Diagonal 647, 08028 Barcelona, Spain and ICREA, Passeig Lluís Companys 23, Barcelona, Spain

E-mail: [marc.fdez.labastida@upc.edu](mailto:marc.fdez.labastida@upc.edu) (M. Fernández de Labastida)

Page: 240-243

DOI: 10.22079/JMSR.2018.90181.1204



Short Communication

## Table of Contents

### Investigation of the Performance of an Optimized Tree-Type Cylindrical-Shaped Nanoporous Filtering Membrane for Varying Operational Parameter Values

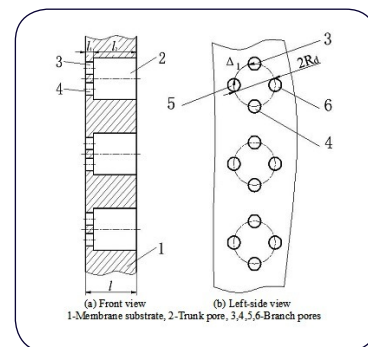
Yongbin Zhang \*

College of Mechanical Engineering, Changzhou University, Changzhou, Jiangsu Province, China

E-mail: [engmech1@sina.com](mailto:engmech1@sina.com) (Y. Zhang)

Page: 244-249

DOI: 10.22079/JMSR.2018.93118.1210



### Demineralization of Cheese Whey by Sequential Nanofiltration (NF) and Electrodialysis (ED) Processes

Neslihan Kaya <sup>1,2</sup>, Esra Altioğ <sup>1</sup>, Dilek Selvi Gökçaya <sup>1</sup>, Nalan Kabay <sup>1,\*</sup>, Semih Ötleş <sup>2,\*</sup>

<sup>1</sup> Ege University, Faculty of Engineering, Chemical Engineering Department, Izmir, Turkey

<sup>2</sup> Ege University, Faculty of Engineering, Food Engineering Department, Izmir, Turkey

E-mail address: [nalan.kabay@ege.edu.tr](mailto:nalan.kabay@ege.edu.tr) (N. Kabay); [semih.otles@ege.edu.tr](mailto:semih.otles@ege.edu.tr) (S. Ötleş)

Page: 250-255

DOI: 10.22079/JMSR.2019.98013.1230

