Table of Contents

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

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

1 Advanced membrane Technology Research Centre, Universiti Teknologi Malaysia, 81310 UTM JB, Johor, Malaysia
2 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

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

Syarifah Noor Syakiylla Sayed Daud 1, Juhana Jaafar 1,*, Muhammad Noorul Anam Mohd Norddin 1,2,*, Rubita Sudirman 2

1 Advanced Membrane Technology Research Centre (AMTEC), School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia
2 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

**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
Polysulfone Ultrafiltration Membranes Modified with Carbon-Coated Alumina Supported Ni-TiO$_2$ 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 (R.M. Moutloali)
Page: 222-232
DOI: 10.22079/JMSR.2018.80046.1173

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; sofiya.k@ktr.srmuniv.ac.in (K. Sofiya)
Page: 233-239
DOI: 10.22079/JMSR.2018.88804.1199

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

Marc Fernández de Labastida 1, *, Andriy Yaroshchuk 2

1 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
2 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 (M. Fernández de Labastida)
Page: 240-243
DOI: 10.22079/JMSR.2018.90181.1204
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 (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 1,2, Esra Altıok 1, Dilek Selvi Gökkaya 1, Nalan Kabay 1,*, Semih Ötleş 2,*

1 Ege University, Faculty of Engineering, Chemical Engineering Department, Izmir, Turkey
2 Ege University, Faculty of Engineering, Food Engineering Department, Izmir, Turkey
E-mail address: nalan.kabay@ege.edu.tr (N. Kabay); semih.otles@ege.edu.tr (S. Ötleş)
Page: 250-255
DOI: 10.22079/JMSR.2019.98013.1230