

Journal of Membrane Science, 2005, V. 249-255**VOL. 249, NO. 1-2, 2005**

- Tae-Hyun Bae and Tae-Moon Tak. **Effect of TiO₂ nanoparticles on fouling mitigation of ultrafiltration membranes for activated sludge filtration.** *Journal of Membrane Science* 2005, 249 (1-2) 1-8
- D.A. Reece, S.F. Ralph and G.G. Wallace. **Metal transport studies on inherently conducting polymer membranes containing cyclodextrin dopants.** *Journal of Membrane Science* 2005, 249 (1-2) 9-20
- Zhen-Mei Liu, Zhi-Kang Xu, Ling-Shu Wan, Jian Wu and Mathias Ulbricht. **Surface modification of polypropylene microfiltration membranes by the immobilization of poly(N-vinyl-2-pyrrolidone): a facile plasma approach.** *Journal of Membrane Science* 2005, 249 (1-2) 21-31
- Liming Yang, Yuru Kang, Yuling Wang, Liwen Xu, Hidetoshi Kita and Ken-ichi Okamoto. **Synthesis of crown ether-containing copolyimides and their pervaporation properties to benzene/cyclohexane mixtures.** *Journal of Membrane Science* 2005, 249 (1-2) 33-39
- Dhananjay Dendukuri, Sandeep K. Karode and Ashwani Kumar. **Flow visualization through spacer filled channels by computational fluid dynamics-II: improved feed spacer designs.** *Journal of Membrane Science* 2005, 249 (1-2) 41-49
- Xiaochun Xu, Yun Bao, Chunshan Song, Weishen Yang, Jie Liu and Liwu Lin. **Synthesis, characterization and single gas permeation properties of NaA zeolite membrane.** *Journal of Membrane Science* 2005, 249 (1-2) 51-64
- Richard L. Ames, J. Douglas Way and Elizabeth A. Bluhm. **Dehydration of nitric acid using perfluoro carboxylate ionomer membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 65-73
- J.H. Xu, G.S. Luo, G.G. Chen and B. Tan. **Mass transfer performance and two-phase flow characteristic in membrane dispersion mini-extractor.** *Journal of Membrane Science* 2005, 249 (1-2) 75-81
- Hiromitsu Takaba and Shin-ichi Nakao. **Computational fluid dynamics study on concentration polarization in H₂/CO separation membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 83-88
- Albert S. Kim and Rong Yuan. **A new model for calculating specific resistance of aggregated colloidal cake layers in membrane filtration processes.** *Journal of Membrane Science* 2005, 249 (1-2) 89-101
- D. Rana, T. Matsuura, R.M. Narbaitz and C. Feng. **Development and characterization of novel hydrophilic surface modifying macromolecule for polymeric membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 103-112
- Jongok Won, Su Kyoung Chae, Jong Hak Kim, Hye Hun Park, Yong Soo Kang and Hoon Sik Kim. **Self-assembled DNA composite membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 113-117
- Akira Yamauchi, Kazuki Togami, Ashraf M. Chaudry and A. Mounir EL Sayed. **Characterization of charged film of fluorocarbon polymer (Nafion) and blended fluorocarbon polymer (Nafion)/Collodion composite membranes by electrochemical methods in the presence of redox substances. V.** *Journal of Membrane Science* 2005, 249 (1-2) 119-126
- E. Pomier, J. Galy, D. Paolucci-Jeanjean, M. Pina, S. Sarrade and G.M. Rios. **A new reactor design combining enzyme, membrane and SC CO₂: application to castor oil modification.** *Journal of Membrane Science* 2005, 249 (1-2) 127-132
- Sang Ho Ye, Junji Watanabe, Yasuhiko Iwasaki and Kazuhiko Ishihara. **In situ modification on cellulose acetate hollow fiber membrane modified with phospholipid polymer for biomedical application.** *Journal of Membrane Science* 2005, 249 (1-2) 133-141
- Y.M. Scindia, A.K. Pandey and A.V.R. Reddy. **Coupled-diffusion transport of Cr(VI) across anion-exchange membranes prepared by physical and chemical immobilization methods.** *Journal of Membrane Science* 2005, 249 (1-2) 143-152
- Raquel Fortunato, Maria Jesus Gonzalez-Munoz, Monika Kubasiewicz, Susana Luque, J.R. Alvarez, Carlos A.M. Afonso, Isabel M. Coelho and Joao G. Crespo. **Liquid membranes using ionic liquids: the influence of water on solute transport.** *Journal of Membrane Science* 2005, 249 (1-2) 153-162
- Sacide Alsoy Altinkaya, Hacer Yenil and Bulent Ozbas. **Membrane formation by dry-cast process: Model validation through morphological studies.** *Journal of Membrane Science* 2005, 249 (1-2) 163-172
- Vu Hong Thang, Werner Koschuh, Klaus D. Kulbe and Senad Novalin. **Detailed investigation of an electrodialytic process during the separation of lactic acid from a complex mixture.** *Journal of Membrane Science* 2005, 249 (1-2) 173-182

- Tongwen Xu, Zhaoming Liu and Weihua Yang. **Fundamental studies of a new series of anion exchange membranes: membrane prepared from poly(2,6-dimethyl-1,4-phenylene oxide) (PPO) and triethylamine.** *Journal of Membrane Science* 2005, 249 (1-2) 183-191
- Keping Han, Wendong Xu, Ariel Ruiz, Paul Ruchhoeft and Shankaraman Chellam. **Fabrication and characterization of polymeric microfiltration membranes using aperture array lithography.** *Journal of Membrane Science* 2005, 249 (1-2) 193-206
- Sergio R. Fontes. **Mass transfer in microfiltration with laminar and turbulent flow of macromolecular solutions.** *Journal of Membrane Science* 2005, 249 (1-2) 207-211
- Ariya Akthakul, Christopher E. Scott, Anne M. Mayes and Alexander J. Wagner. **Lattice Boltzmann simulation of asymmetric membrane formation by immersion precipitation.** *Journal of Membrane Science* 2005, 249 (1-2) 213-226
- Christopher Bellona and Jorg E. Drewes. **The role of membrane surface charge and solute physico-chemical properties in the rejection of organic acids by NF membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 227-234
- Kenichi Nagase, Urara Hasegawa, Fukashi Kohori, Kiyotaka Sakai and Hiroyuki Nishide. **The photoresponse of a molybdenum porphyrin makes an artificial gill feasible.** *Journal of Membrane Science* 2005, 249 (1-2) 235-243
- Amit Mehta and Andrew L. Zydney. **Permeability and selectivity analysis for ultrafiltration membranes.** *Journal of Membrane Science* 2005, 249 (1-2) 245-249

VOL. 250, NO. 1-2, 2005

- W. Richard Bowen, Shu Ying Cheng, Teodora A. Doneva and Darren L. Oatley. **Manufacture and characterisation of polyetherimide/sulfonated poly(ether ether ketone) blend membranes.** *Journal of Membrane Science* 2005, 250 (1-2) 1-10
- Jung-Min Kim, Gab-Jin Hwang, Sang-Ho Lee, Chu-Sik Park, Jong-Won Kim and Young-Ho Kim. **Properties of oxygen permeation and partial oxidation of methane in La_{0.6}Sr_{0.4}CoO₃ (LSC)–La_{0.7}Sr_{0.3}Ga_{0.6}Fe_{0.4}O₃ (LSGF) membrane.** *Journal of Membrane Science* 2005, 250 (1-2) 11-16
- Zhihua Lu, Guojun Liu and Scott Duncan. **Morphology and permeability of membranes of polysulfone-graft-poly(tert-butyl acrylate) and derivatives.** *Journal of Membrane Science* 2005, 250 (1-2) 17-28
- M. Momtaz, J.-L. Dewez and J. Marchand-Brynaert. **Chemical reactivity assay and surface characterization of a poly(vinylidene fluoride) microfiltration membrane (“Durapore DVPP”).** *Journal of Membrane Science* 2005, 250 (1-2) 29-37
- G. Suresh, Y.M. Scindia, A.K. Pandey and A. Goswami. **Self-diffusion coefficient of water in Nafion-117 membrane with different monovalent counterions: a radiotracer study.** *Journal of Membrane Science* 2005, 250 (1-2) 39-45
- M.K. Purkait, S. DasGupta and S. De. **Separation of aromatic alcohols using micellar-enhanced ultrafiltration and recovery of surfactant.** *Journal of Membrane Science* 2005, 250 (1-2) 47-59
- Tomoko Yamakawa, Shinya Ishida and Mitsuru Higa. **Transport properties of ions through temperature-responsive charged membranes prepared using poly(vinyl alcohol)/poly(N-isopropylacrylamide)/poly(vinyl alcohol-co-2-acrylamido-2-methylpropane sulfonic acid).** *Journal of Membrane Science* 2005, 250 (1-2) 61-68
- Goran T. Vladislavjevic, Masataka Shimizu and Tadao Nakashima. **Permeability of hydrophilic and hydrophobic Shirasu-porous-glass (SPG) membranes to pure liquids and its microstructure.** *Journal of Membrane Science* 2005, 250 (1-2) 69-77
- F. Cesarone, M. Caputo and C. Cametti. **Memory formalism in the passive diffusion across highly heterogeneous systems.** *Journal of Membrane Science* 2005, 250 (1-2) 79-84
- A.M.Y. Jaber, S.A. Ali and G.O. Yahaya. **Studies on phenol permeation through supported liquid membranes containing functionalized polyorganosiloxanes.** *Journal of Membrane Science* 2005, 250 (1-2) 85-94
- Jian-Jun Qin, Tai-Shung Chung, Chun Cao and R.H. Vora. **Effect of temperature on intrinsic permeation properties of 6FDA-Durene/1,3-phenylenediamine (mPDA) copolyimide and fabrication of its hollow fiber membranes for CO₂/CH₄ separation.** *Journal of Membrane Science* 2005, 250 (1-2) 95-103
- Qibing Chang, Lei Zhang, Xingqin Liu, Dingkun Peng and Guangyao Meng. **Preparation of crack-free ZrO₂ membrane on Al₂O₃ support with ZrO₂–Al₂O₃ composite intermediate layers.** *Journal of Membrane Science* 2005, 250 (1-2) 105-111
- R.S. Gartner, F.G. Wilhelm, G.J. Witkamp and M. Wessling. **Regeneration of mixed solvent by electro dialysis: selective removal of chloride and sulfate.** *Journal of Membrane Science* 2005, 250 (1-2) 113-133

- Teresa Suchecka, Wojciech Piatkiewicz and Tomasz R. Sosnowski. **Is the cell retention by MF membrane absolutely safe—a hypothetical model for cell deformation in a membrane pore.** *Journal of Membrane Science* 2005, 250 (1-2) 135-140
- J.M. Rodriguez-Maroto and L. Martinez. **Bulk and measured temperatures in direct contact membrane distillation.** *Journal of Membrane Science* 2005, 250 (1-2) 141-149
- Jan Schauer and Libuse Brozova. **Heterogeneous ion-exchange membranes based on sulfonated poly(1,4-phenylene sulfide) and linear polyethylene: preparation, oxidation stability, methanol permeability and electrochemical properties.** *Journal of Membrane Science* 2005, 250 (1-2) 151-157
- Young Ku, Pei-Lin Lee and Wen-Yu Wang. **Removal of acidic dyestuffs in aqueous solution by nanofiltration.** *Journal of Membrane Science* 2005, 250 (1-2) 159-165
- Lili Wu, Xiaoyan Yuan and Jing Sheng. **Immobilization of cellulase in nanofibrous PVA membranes by electrospinning.** *Journal of Membrane Science* 2005, 250 (1-2) 167-173
- Bokyung Kim, Jinhwan Kim and Bumsuk Jung. **Morphology and transport properties of protons and methanol through partially sulfonated block copolymers.** *Journal of Membrane Science* 2005, 250 (1-2) 175-182
- Hayley A. Every, Michael A. Hickner, James E. McGrath and Thomas A. Zawodzinski, Jr.. **An NMR study of methanol diffusion in polymer electrolyte fuel cell membranes.** *Journal of Membrane Science* 2005, 250 (1-2) 183-188
- A. Yeo, P. Yang, A.G. Fane, T. White and H.O. Moser. **Non-invasive observation of external and internal deposition during membrane filtration by X-ray microimaging (XMI).** *Journal of Membrane Science* 2005, 250 (1-2) 189-193
- Jong-Ho Moon, Yong-Jin Park, Min-Bae Kim, Sang-Hoon Hyun and Chang-Ha Lee. **Permeation and separation of a carbon dioxide/nitrogen mixture in a methyltriethoxysilane templating silica/?-alumina composite membrane.** *Journal of Membrane Science* 2005, 250 (1-2) 195-205
- Jong Hak Kim, Chang Kon Kim, Jongok Won and Yong Soo Kang. **Role of anions for the reduction behavior of silver ions in polymer/silver salt complex membranes.** *Journal of Membrane Science* 2005, 250 (1-2) 207-214
- Utpal Bora, Krishnamoorthy Kannan and Pradip Nahar. **A simple method for functionalization of cellulose membrane for covalent immobilization of biomolecules.** *Journal of Membrane Science* 2005, 250 (1-2) 215-222
- P. Bacchin, B. Espinasse and P. Aimar. **Distributions of critical flux: modelling, experimental analysis and consequences for cross-flow membrane filtration.** *Journal of Membrane Science* 2005, 250 (1-2) 223-234
- H.J. Zwijnenberg, G.H. Koops and M. Wessling. **Solar driven membrane pervaporation for desalination processes.** *Journal of Membrane Science* 2005, 250 (1-2) 235-246
- German Salazar-Alvarez, Ana Nelly Bautista-Flores, Eduardo Rodriguez de San Miguel, Mamoun Muhammed and Josefina de Gyves. **Transport characterisation of a PIM system used for the extraction of Pb(II) using d2ehpa as carrier.** *Journal of Membrane Science* 2005, 250 (1-2) 247-257
- W.-L. Chou and M.-C. Yang. **Effect of take-up speed on physical properties and permeation performance of cellulose acetate hollow fibers.** *Journal of Membrane Science* 2005, 250 (1-2) 259-267
- Zhenzhong Zhu, Zhuoli Hao, Zhisong Shen and Jian Chen. **Modified modeling of the effect of pH and viscosity on the mass transfer in hydrophobic hollow fiber membrane contactors.** *Journal of Membrane Science* 2005, 250 (1-2) 269-276
- Porntip Luangrujiwong, Anawat Sungpet, Ratana Jiraratananon and J. Douglas Way. **Investigation of the carrier saturation in facilitated transport of unsaturated hydrocarbons.** *Journal of Membrane Science* 2005, 250 (1-2) 277-282
- M. Ferrando, A. Rozek, M. Zator, F. Lopez and C. Guell. **An approach to membrane fouling characterization by confocal scanning laser microscopy.** *Journal of Membrane Science* 2005, 250 (1-2) 283-293
- Yong-Jin Choi, Ji-Min Park, Kyeong-Ho Yeon and Seung-Hyeon Moon. **Electrochemical characterization of poly(vinyl alcohol)/formyl methyl pyridinium (PVA-FP) anion-exchange membranes.** *Journal of Membrane Science* 2005, 250 (1-2) 295-304
- Pieter Vandezande, Lieven E.M. Gevers, Johan S. Paul, Ivo F.J. Vankelecom and Pierre A. Jacobs. **High throughput screening for rapid development of membranes and membrane processes.** *Journal of Membrane Science* 2005, 250 (1-2) 305-310
- G. Foley, A.A. McCarthy and P.K. Walsh. **Evidence for shape-dependent deposition in crossflow microfiltration of microbial cells.** *Journal of Membrane Science* 2005, 250 (1-2) 311-313

VOL. 251, NO. 1-2, 2005

- S. van der Graaf, C.G.P.H. Schroen and R.M. Boom. **Preparation of double emulsions by membrane emulsification—a review • REVIEW ARTICLE.** *Journal of Membrane Science* 2005, 251 (1-2) 7-15
- Cedric Boissiere, Marco U. Martines, Andre Larbot and Eric Prouzet. **On the specific filtration mechanism of a mesoporous silica membrane, prepared with non-connecting parallel pores.** *Journal of Membrane Science* 2005, 251 (1-2) 17-28
- S.J. Metz, W.J.C. van de Ven, J. Potreck, M.H.V. Mulder and M. Wessling. **Transport of water vapor and inert gas mixtures through highly selective and highly permeable polymer membranes.** *Journal of Membrane Science* 2005, 251 (1-2) 29-41
- Huajie Zhang. **Preparation of an acetylene black–dihexadecyl hydrogen phosphate composite film modified glassy carbon electrode and the application in the determination of hydroxycamptothecin in blood serum.** *Journal of Membrane Science* 2005, 251 (1-2) 43-49
- Nikunj P. Patel, Marcus A. Hunt, Sheng Lin-Gibson, Sidi Bencherif and Richard J. Spontak. **Tunable CO₂ transport through mixed polyether membranes.** *Journal of Membrane Science* 2005, 251 (1-2) 51-57
- Shiguang Li, Guerrero Alvarado, Richard D. Noble and John L. Falconer. **Effects of impurities on CO₂/CH₄ separations through SAPO-34 membranes.** *Journal of Membrane Science* 2005, 251 (1-2) 59-66
- Yujun Song, Patricia Sun, Laurence L. Henry and Benhui Sun. **Mechanisms of structure and performance controlled thin film composite membrane formation via interfacial polymerization process.** *Journal of Membrane Science* 2005, 251 (1-2) 67-79
- T.N. Shah, J.C. Goodwin and S.M.C. Ritchie. **Development and characterization of a microfiltration membrane catalyst containing sulfonated polystyrene grafts.** *Journal of Membrane Science* 2005, 251 (1-2) 81-89
- Ronald A. Siegel. **Characterization of relaxation to steady state in membranes with binding and reaction.** *Journal of Membrane Science* 2005, 251 (1-2) 91-99
- Kazukiyo Nagai, Shinji Kaneshashi, Shingo Tabei and Tsutomu Nakagawa. **Nitrogen permeability and carbon dioxide solubility in poly(1-trimethylsilyl-1-propyne)-based binary substituted polyacetylene blends.** *Journal of Membrane Science* 2005, 251 (1-2) 101-110
- Xiaoyao Tan, Goksen Capar and K. Li. **Analysis of dissolved oxygen removal in hollow fibre membrane modules: effect of water vapour.** *Journal of Membrane Science* 2005, 251 (1-2) 111-119
- M. Shen, S. Roy, J.W. Kuhlmann, K. Scott, K. Lovell and J.A. Horsfall. **Grafted polymer electrolyte membrane for direct methanol fuel cells.** *Journal of Membrane Science* 2005, 251 (1-2) 121-130
- Vinita Dubey, Lokesh Kumar Pandey and Chhaya Saxena. **Pervaporative separation of ethanol/water azeotrope using a novel chitosan-impregnated bacterial cellulose membrane and chitosan–poly(vinyl alcohol) blends.** *Journal of Membrane Science* 2005, 251 (1-2) 131-136
- Rong-Qiang Fu, Tong-Wen Xu and Zhong-Xiao Pan. **Modelling of the adsorption of bovine serum albumin on porous polyethylene membrane by back-propagation artificial neural network.** *Journal of Membrane Science* 2005, 251 (1-2) 137-144
- H. Tamagawa, F. Nogata and S. Popovic. **Roles of Ag redox reaction and water absorption inducing the Selemion bending.** *Journal of Membrane Science* 2005, 251 (1-2) 145-150
- Mikihiro Nomura, Kenta Ono, Suraj Gopalakrishnan, Takashi Sugawara and Shin-Ichi Nakao. **Preparation of a stable silica membrane by a counter diffusion chemical vapor deposition method.** *Journal of Membrane Science* 2005, 251 (1-2) 151-158
- Youn Kook Kim, Ho Bum Park and Young Moo Lee. **Gas separation properties of carbon molecular sieve membranes derived from polyimide/polyvinylpyrrolidone blends: effect of the molecular weight of polyvinylpyrrolidone.** *Journal of Membrane Science* 2005, 251 (1-2) 159-167
- V. Smuleac, D.A. Butterfield, S.K. Sikdar, R.S. Varma and D. Bhattacharyya. **Polythiol-functionalized alumina membranes for mercury capture.** *Journal of Membrane Science* 2005, 251 (1-2) 169-178
- Minh H. Tran-Ha, Vannessa Santos and Dianne E. Wiley. **The effect of multivalent cations on membrane–protein interactions during cleaning with CTAB.** *Journal of Membrane Science* 2005, 251 (1-2) 179-188
- Baowei Su, Zhi Wang, Jixiao Wang and Shichang Wang. **Concentration of clindamycin phosphate aqueous ethanol solution by nanofiltration.** *Journal of Membrane Science* 2005, 251 (1-2) 189-200
- Yung-Chuan Liu, Shing-Yi Suen, Cheng-Weng Huang and Chih-Chiang ChangChien. **Effects of spacer arm on penicillin G acylase purification using immobilized metal affinity membranes.** *Journal of Membrane Science* 2005, 251 (1-2) 201-207

- V.Y. Dindore, D.W.F. Brillman and G.F. Versteeg. **Modelling of cross-flow membrane contactors: physical mass transfer processes.** *Journal of Membrane Science* 2005, 251 (1-2) 209-222
- P. Hadik, L.-P. Szabo, E. Nagy and Zs. Farkas. **Enantioseparation of d,l-lactic acid by membrane techniques.** *Journal of Membrane Science* 2005, 251 (1-2) 223-232
- Ying-Ling Liu, Yu-Huei Su, Kuir-Rain Lee and Juin-Yih Lai. **Crosslinked organic-inorganic hybrid chitosan membranes for pervaporation dehydration of isopropanol-water mixtures with a long-term stability.** *Journal of Membrane Science* 2005, 251 (1-2) 233-238
- Zhi-Ping Zhao, Jiding Li, Jian Chen and Cui-Xian Chen. **Nanofiltration membrane prepared from polyacrylonitrile ultrafiltration membrane by low-temperature plasma: 2. Grafting of styrene in vapor phase.** *Journal of Membrane Science* 2005, 251 (1-2) 239-245
- Jeong-Pil Shin, Bong-Jun Chang, Jeong-Hoon Kim, Soo-Bok Lee and Dong Hack Suh. **Sulfonated polystyrene/PTFE composite membranes.** *Journal of Membrane Science* 2005, 251 (1-2) 247-254
- H.M. Yeh and Y.F. Chen. **Modified analysis of permeate flux for ultrafiltration in a solid-rod tubular membrane.** *Journal of Membrane Science* 2005, 251 (1-2) 255-261
- Peter M. Budd, Kadhum J. Msayib, Carin E. Tattershall, Bader S. Ghanem, Kevin J. Reynolds, Neil B. McKeown and Detlev Fritsch. **Gas separation membranes from polymers of intrinsic microporosity.** *Journal of Membrane Science* 2005, 251 (1-2) 263-269

VOL. 252, NO. 1-2, 2005

- J. Sawai, N. Ito, T. Minami and M. Kikuchi. **Separation of low volatile organic compounds, phenol and aniline derivatives, from aqueous solution using silicone rubber membrane.** *Journal of Membrane Science* 2005, 252 (1-2) 1-7
- L. Burgos, M.O. Ruiz, J.L. Cabezas, J.M. Benito, I. Escudero and J. Coca. **Mass transfer in extractive ultrafiltration of ?-phenylglycine with TOMACI in a hollow fiber contactor.** *Journal of Membrane Science* 2005, 252 (1-2) 9-18
- Edgar Quinones-Bolanos, Hongde Zhou, Ranganathan Soundararajan and Lambert Otten. **Water and solute transport in pervaporation hydrophilic membranes to reclaim contaminated water for micro-irrigation.** *Journal of Membrane Science* 2005, 252 (1-2) 19-28
- Eric E. Nuxoll, Ronald A. Siegel and E.L. Cussler. **Layered reactive barrier films.** *Journal of Membrane Science* 2005, 252 (1-2) 29-36
- Xiangyi Qiao, Tai-Shung Chung, Wei Fen Guo, Takeshi Matsuura and May May Teoh. **Dehydration of isopropanol and its comparison with dehydration of butanol isomers from thermodynamic and molecular aspects.** *Journal of Membrane Science* 2005, 252 (1-2) 37-49
- E.P. Jacobs, S.M. Bradshaw, J.P. Botes and V.L. Pillay. **Reverse-pressure back-flush in pilot scale, dead-end ultrafiltration of surface water.** *Journal of Membrane Science* 2005, 252 (1-2) 51-63
- J.M. Ortiz, J.A. Sotoca, E. Exposito, F. Gallud, V. Garcia-Garcia, V. Montiel and A. Aldaz. **Brackish water desalination by electrodialysis: batch recirculation operation modeling.** *Journal of Membrane Science* 2005, 252 (1-2) 65-75
- Anthony Szymczyk and Patrick Fievet. **Investigating transport properties of nanofiltration membranes by means of a steric, electric and dielectric exclusion model.** *Journal of Membrane Science* 2005, 252 (1-2) 77-88
- Lan Ying Jiang, Tai Shung Chung, Chun Cao, Zhen Huang and Santi Kulprathipanja. **Fundamental understanding of nano-sized zeolite distribution in the formation of the mixed matrix single- and dual-layer asymmetric hollow fiber membranes.** *Journal of Membrane Science* 2005, 252 (1-2) 89-100
- M. Khayet, J.I. Mengual and T. Matsuura. **Porous hydrophobic/hydrophilic composite membranes: Application in desalination using direct contact membrane distillation.** *Journal of Membrane Science* 2005, 252 (1-2) 101-113
- M.K. Daletou, N. Gourdoupi and J.K. Kallitsis. **Proton conducting membranes based on blends of PBI with aromatic polyethers containing pyridine units.** *Journal of Membrane Science* 2005, 252 (1-2) 115-122
- E.S. Tarleton, J.P. Robinson, C.R. Millington and A. Nijmeijer. **Non-aqueous nanofiltration: solute rejection in low-polarity binary systems.** *Journal of Membrane Science* 2005, 252 (1-2) 123-131
- A. Mourgues and J. Sanchez. **Theoretical analysis of concentration polarization in membrane modules for gas separation with feed inside the hollow-fibers.** *Journal of Membrane Science* 2005, 252 (1-2) 133-144
- Li Yang, Zhengxi Zhang, Xuhui Gao, Yaju Guo, Baofeng Wang, Osamu Sakai, Hitoshi Sakai and Tomonori Takahashi. **Changes in hydrogen permeability and surface state of Pd-Ag/ceramic composite membranes after thermal treatment.** *Journal of Membrane Science* 2005, 252 (1-2) 145-154

- Sang-Dae Bae, Masaki Sagehashi and Akiyoshi Sakoda. **Prevention of microparticle blocking in activated carbon membrane filtration with carbon whisker.** *Journal of Membrane Science* 2005, 252 (1-2) 155-163
- Junsheng Liu, Tongwen Xu and Yanxun Fu. **Fundamental studies of novel inorganic-organic charged zwitterionic hybrids: 2. Preparation and characterizations of hybrid charged zwitterionic membranes.** *Journal of Membrane Science* 2005, 252 (1-2) 165-173
- Weitao Bao, Qibing Chang, Ruiqiang Yan and Guangyao Meng. **The novel combination of electrostatic powder coating with suspension coating for fabricating the dense YSZ thin film on porous anode substrate.** *Journal of Membrane Science* 2005, 252 (1-2) 175-181
- K. Soldenhoff, M. Shamieh and A. Manis. **Liquid-liquid extraction of cobalt with hollow fiber contactor.** *Journal of Membrane Science* 2005, 252 (1-2) 183-194
- L. Braeken, R. Ramaekers, Y. Zhang, G. Maes, B. Van der Bruggen and C. Vandecasteele. **Influence of hydrophobicity on retention in nanofiltration of aqueous solutions containing organic compounds.** *Journal of Membrane Science* 2005, 252 (1-2) 195-203
- Scott Wright, John Pellegrino, Gary Amy and James L. Ranville. **Towards development of a surrogate aqueous mixture for studying flux decline characteristics of membranes and membrane processes.** *Journal of Membrane Science* 2005, 252 (1-2) 205-214
- V.V. Kharton, A.L. Shaula, F.M.M. Snijkers, J.F.C. Cooymans, J.J. Luyten, A.A. Yaremchenko, A.A. Valente, E.V. Tsipis, J.R. Frade, F.M.B. Marques and J. Rocha. **Processing, stability and oxygen permeability of Sr(Fe, Al)O₃-based ceramic membranes.** *Journal of Membrane Science* 2005, 252 (1-2) 215-225
- Matthew J. Powell and Aaron T. Timperman. **Quantitative analysis of protein recovery from dilute, large volume samples by tangential flow ultrafiltration.** *Journal of Membrane Science* 2005, 252 (1-2) 227-236
- F.J. Alguacil, M. Alonso and A.M. Sastre. **Facilitated supported liquid membrane transport of gold (I) and gold (III) using Cyanex® 921.** *Journal of Membrane Science* 2005, 252 (1-2) 237-244
- Christopher J. Orme, Michael G. Jones and Frederick F. Stewart. **Pervaporation of water from aqueous HI using Nafion®-117 membranes for the sulfur-iodine thermochemical water splitting process.** *Journal of Membrane Science* 2005, 252 (1-2) 245-252
- Wen-Yi Shih, Anditya Rahardianto, Ron-Wai Lee and Yoram Cohen. **Morphometric characterization of calcium sulfate dihydrate (gypsum) scale on reverse osmosis membranes.** *Journal of Membrane Science* 2005, 252 (1-2) 253-263
- T. Visser, G.H. Koops and M. Wessling. **On the subtle balance between competitive sorption and plasticization effects in asymmetric hollow fiber gas separation membranes.** *Journal of Membrane Science* 2005, 252 (1-2) 265-277
- Guang-Jin Wang, Liang-Yin Chu, Wen-Mei Chen and Ming-Yu Zhou. **A porous microcapsule membrane with straight pores for the immobilization of microbial cells.** *Journal of Membrane Science* 2005, 252 (1-2) 279-284

VOL. 253, NO. 1-2, 2005

- F. Li, W. Meindersma, A.B. de Haan and T. Reith. **Novel spacers for mass transfer enhancement in membrane separations.** *Journal of Membrane Science* 2005, 253 (1-2) 1-12
- Wei Fen Guo and Tai-Shung Chung. **Study and characterization of the hysteresis behavior of polyimide membranes in the thermal cycle process of pervaporation separation.** *Journal of Membrane Science* 2005, 253 (1-2) 13-22
- C.W. Lin, R. Thangamuthu and C.J. Yang. **Proton-conducting membranes with high selectivity from phosphotungstic acid-doped poly(vinyl alcohol) for DMFC applications.** *Journal of Membrane Science* 2005, 253 (1-2) 23-31
- H. Bashir, J.L. Acosta and A. Linares. **New proton conducting polymer membranes based on EPDM and branched HPBS.** *Journal of Membrane Science* 2005, 253 (1-2) 33-42
- Samuel P. Kusumocahyo, Takayuki Ichikawa, Toshio Shinbo, Takashi Iwatsubo, Mitsuyoshi Kameda, Katsuhide Ohi, Yasuo Yoshimi and Toshiyuki Kanamori. **Pervaporative separation of organic mixtures using dinitrophenyl group-containing cellulose acetate membrane.** *Journal of Membrane Science* 2005, 253 (1-2) 43-48
- Philippe Lavalle, Fouzia Boulmedais, Vincent Ball, Jerome Mutterer, Pierre Schaaf and Jean-Claude Voegel. **Free standing membranes made of biocompatible polyelectrolytes using the layer by layer method.** *Journal of Membrane Science* 2005, 253 (1-2) 49-56
- W. Zhu, L. Gora, A.W.C. van den Berg, F. Kapteijn, J.C. Jansen and J.A. Moulijn. **Water vapour separation from permanent gases by a zeolite-4A membrane.** *Journal of Membrane Science* 2005, 253 (1-2) 57-66

- J. Kromkamp, A. Bastiaanse, J. Swarts, G. Brans, R.G.M. van der Sman and R.M. Boom. **A suspension flow model for hydrodynamics and concentration polarisation in crossflow microfiltration.** *Journal of Membrane Science* 2005, 253 (1-2) 67-79
- S. Chang, T.D. Waite and A.G. Fane. **A simplified model for trace organics removal by continuous flow PAC adsorption/submerged membrane processes.** *Journal of Membrane Science* 2005, 253 (1-2) 81-87
- Jean-Francois Lapointe, Sylvie F. Gauthier, Yves Pouliot and Christian Bouchard. **Fouling of a nanofiltration membrane by a β -lactoglobulin tryptic hydrolysate: impact on the membrane sieving and electrostatic properties.** *Journal of Membrane Science* 2005, 253 (1-2) 89-102
- A.L. Ahmad, M.F. Chong and S. Bhatia. **Mathematical modeling and simulation of the multiple solutes system for nanofiltration process.** *Journal of Membrane Science* 2005, 253 (1-2) 103-115
- Shinji Kanehashi and Kazukiyo Nagai. **Analysis of dual-mode model parameters for gas sorption in glassy polymers.** *Journal of Membrane Science* 2005, 253 (1-2) 117-138
- Ana Garcia, Silvia Alvarez, Francisco Riera, Ricardo Alvarez and Jose Coca. **Water and hexane permeate flux through organic and ceramic membranes: Effect of pretreatment on hexane permeate flux.** *Journal of Membrane Science* 2005, 253 (1-2) 139-147
- Pablo Canizares, Antonio de Lucas, Angel Perez and Rafael Camarillo. **Effect of polymer nature and hydrodynamic conditions on a process of polymer enhanced ultrafiltration.** *Journal of Membrane Science* 2005, 253 (1-2) 149-163
- D. Wang, Ted B. Flanagan and K.L. Shanahan. **Hydrogen permeation measurements of partially internally oxidized Pd–Al alloys in the presence and absence of CO.** *Journal of Membrane Science* 2005, 253 (1-2) 165-173
- M. Mar Lopez-Gonzalez, V. Compan, E. Saiz, E. Riande and J. Guzman. **Effect of the upstream pressure on gas transport in poly(ether-imide) films.** *Journal of Membrane Science* 2005, 253 (1-2) 175-181
- F. Hamad and T. Matsuura. **Performance of gas separation membranes made from sulfonated brominated high molecular weight poly(2,4-dimethyl-1,6-phenylene oxide).** *Journal of Membrane Science* 2005, 253 (1-2) 183-189
- Mei-Ling Cheng and Yi-Ming Sun. **Observation of the solute transport in the permeation through hydrogel membranes by using FTIR-microscopy.** *Journal of Membrane Science* 2005, 253 (1-2) 191-198
- G. Illing, K. Hellgardt, M. Schonert, R.J. Wakeman and A. Jungbauer. **Towards ultrathin polyaniline films for gas separation.** *Journal of Membrane Science* 2005, 253 (1-2) 199-208
- Subrata Roy, Sarah M. Cooper, M. Meyyappan and Brett A. Cruden. **Single component gas transport through 10 nm pores: Experimental data and hydrodynamic prediction.** *Journal of Membrane Science* 2005, 253 (1-2) 209-215
- Marcus V.G. Vallero, Gatzte Lettinga and Piet N.L. Lens. **High rate sulfate reduction in a submerged anaerobic membrane bioreactor (SAMBaR) at high salinity.** *Journal of Membrane Science* 2005, 253 (1-2) 217-232
- Vadim S. Bobrov, Nikoliy G. Digurov and Valery V. Skudin. **Propane dehydrogenation using catalytic membrane.** *Journal of Membrane Science* 2005, 253 (1-2) 233-242
- Christopher J. Orme and Frederick F. Stewart. **Mixed gas hydrogen sulfide permeability and separation using supported polyphosphazene membranes.** *Journal of Membrane Science* 2005, 253 (1-2) 243-249

VOL. 254, NO. 1-2, 2005

- P. Shao, R.Y.M. Huang, X. Feng, W. Anderson, R. Pal and C.M. Burns. **Composite membranes with an integrated skin layer: preparation, structural characteristics and pervaporation performance.** *Journal of Membrane Science* 2005, 254 (1-2) 1-11
- F. Trotta, C. Baggiani, M.P. Luda, E. Drioli and T. Massari. **A molecular imprinted membrane for molecular discrimination of tetracycline hydrochloride.** *Journal of Membrane Science* 2005, 254 (1-2) 13-19
- Jonathan P. DeRocher, Brian T. Gettelfinger, Junshan Wang, Eric E. Nuxoll and E.L. Cussler. **Barrier membranes with different sizes of aligned flakes.** *Journal of Membrane Science* 2005, 254 (1-2) 21-30
- Nikhil H. Jalani, Pyoungho Choi and Ravindra Datta. **TEOM: A novel technique for investigating sorption in proton-exchange membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 31-38
- Jeong-Ik Oh and Seock heon Lee. **Influence of streaming potential on flux decline of microfiltration with in-line rapid pre-coagulation process for drinking water production.** *Journal of Membrane Science* 2005, 254 (1-2) 39-47
- Ames Kulprathipanja, Gokhan O. Alptekin, John L. Falconer and J. Douglas Way. **Pd and Pd–Cu membranes: inhibition of H₂ permeation by H₂S.** *Journal of Membrane Science* 2005, 254 (1-2) 49-62

- Christine M. Moore, Sarah Hackman, Terrance Brennan and Shelley D. Minter. **Effect of mixture casting phosphonium salts with Nafion® on the proton exchange capacity and mass transport through the membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 63-70
- David M. Bohonak and Andrew L. Zydney. **Compaction and permeability effects with virus filtration membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 71-79
- Yijiang Zhao, Weihong Xing, Nanping Xu and Fook-Sin Wong. **Effects of inorganic salt on ceramic membrane microfiltration of titanium dioxide suspension.** *Journal of Membrane Science* 2005, 254 (1-2) 81-88
- Jinsheng Zhou, Ronald F. Childs and Alicja M. Mika. **Pore-filled nanofiltration membranes based on poly(2-acrylamido-2-methylpropanesulfonic acid) gels.** *Journal of Membrane Science* 2005, 254 (1-2) 89-99
- David Labbe, Monica Araya-Farias, Angelo Tremblay and Laurent Bazinet. **Electromigration feasibility of green tea catechins.** *Journal of Membrane Science* 2005, 254 (1-2) 101-109
- Laurent Bazinet, Yves DeGrandpre and Andrew Porter. **Enhanced tobacco polyphenol electromigration and impact on membrane integrity.** *Journal of Membrane Science* 2005, 254 (1-2) 111-118
- M.J. Abdekhodaie and X.Y. Wu. **Modeling of a cationic glucose-sensitive membrane with consideration of oxygen limitation.** *Journal of Membrane Science* 2005, 254 (1-2) 119-127
- Toraj Mohammadi and Ashkan Esmaelifar. **Wastewater treatment of a vegetable oil factory by a hybrid ultrafiltration-activated carbon process.** *Journal of Membrane Science* 2005, 254 (1-2) 129-137
- C.S. Karthikeyan, S.P. Nunes, L.A.S.A. Prado, M.L. Ponce, H. Silva, B. Ruffmann and K. Schulte. **Polymer nanocomposite membranes for DMFC application.** *Journal of Membrane Science* 2005, 254 (1-2) 139-146
- Xianfeng Li, Zhe Wang, Hui Lu, Chengji Zhao, Hui Na and Chun Zhao. **Electrochemical properties of sulfonated PEEK used for ion exchange membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 147-155
- Ruben Mercade-Prieto and Xiao Dong Chen. **Caustic-induced gelation of whey deposits in the alkali cleaning of membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 157-167
- U. Senthilkumar, R. Rajini and B.S.R. Reddy. **Gas permeation and sorption properties of non-ionic and cationic amino-hydroxy functionalized poly(dimethylsiloxane) membranes.** *Journal of Membrane Science* 2005, 254 (1-2) 169-177
- Xin Jiang and Ashwani Kumar. **Performance of silicone-coated polymeric membrane in separation of hydrocarbons and nitrogen mixtures.** *Journal of Membrane Science* 2005, 254 (1-2) 179-188
- A.F. Ismail, N. Zubir, M.M. Nasef, K.M. Dahlan and A.R. Hassan. **Physico-chemical study of sulfonated polystyrene pore-filled electrolyte membranes by electrons induced grafting.** *Journal of Membrane Science* 2005, 254 (1-2) 189-196
- C.W. Lin, R. Thangamuthu and P.H. Chang. **PWA-doped PEG/SiO₂ proton-conducting hybrid membranes for fuel cell applications.** *Journal of Membrane Science* 2005, 254 (1-2) 197-205
- Kenichi Nagase, Fukashi Kohori, Kiyotaka Sakai and Hiroyuki Nishide. **Rearrangement of hollow fibers for enhancing oxygen transfer in an artificial gill using oxygen carrier solution.** *Journal of Membrane Science* 2005, 254 (1-2) 207-217
- Hai-Yin Yu, Ya-Jie Xie, Meng-Xin Hu, Jian-Li Wang, Shu-Yuan Wang and Zhi-Kang Xu. **Surface modification of polypropylene microporous membrane to improve its antifouling property in MBR: CO₂ plasma treatment.** *Journal of Membrane Science* 2005, 254 (1-2) 219-227
- G. Pugazhenth, S. Sachan, Nanda Kishore and Anil Kumar. **Separation of chromium (VI) using modified ultrafiltration charged carbon membrane and its mathematical modeling.** *Journal of Membrane Science* 2005, 254 (1-2) 229-239
- Laurens C. Witjens, J.H. Bitter, A.J. van Dillen, W.M. Arnoldbik, F.H.P.M. Habraken and K.P. de Jong. **Improving the control of the electroless plating synthesis of Pd/Ag membranes for hydrogen separation using Rutherford backscattering.** *Journal of Membrane Science* 2005, 254 (1-2) 241-248
- S. Rosinski, D. Lewinska, M. Wojcik, G. Orive, J.L. Pedraz and A. Werynski. **Mass transfer characteristics of poly-lysine, poly-ornithine and poly-methylene-co-guanidine membrane coated alginate microcapsules.** *Journal of Membrane Science* 2005, 254 (1-2) 249-257
- Thomas Schafer, Andreas Heintz and Joao G. Crespo. **Sorption of aroma compounds in poly(octylmethylsiloxane) (POMS).** *Journal of Membrane Science* 2005, 254 (1-2) 259-265
- J. Sekulic, J.E. ten Elshof and D.H.A. Blank. **Separation mechanism in dehydration of water/organic binary liquids by pervaporation through microporous silica.** *Journal of Membrane Science* 2005, 254 (1-2) 267-274
- R. Scheichl, M.-H. Klopffer, Z. Benjelloun-Dabaghi and B. Flaconneche. **Permeation of gases in polymers: parameter identification and nonlinear regression analysis.** *Journal of Membrane Science* 2005, 254 (1-2) 275-293

- T.Y. Chiu and A.E. James. **Critical flux determination of non-circular multi-channel ceramic membranes using TiO₂ suspensions.** *Journal of Membrane Science* 2005, 254 (1-2) 295-301
- Parna Mukherjee, Kimberly L. Jones and Joshua O. Abitoye. **Surface modification of nanofiltration membranes by ion implantation.** *Journal of Membrane Science* 2005, 254 (1-2) 303-310

VOL. 255, NO. 1-2, 2005

- P. Shao, G. Ji and P. Chen. **Gold nanotube membranes: Preparation, characterization and application for enantioseparation.** *Journal of Membrane Science* 2005, 255 (1-2) 1-11
- F. Tasselli, J.C. Jansen, F. Sidari and E. Drioli. **Morphology and transport property control of modified poly(ether ether ketone) (PEEKWC) hollow fiber membranes prepared from PEEKWC/PVP blends: influence of the relative humidity in the air gap.** *Journal of Membrane Science* 2005, 255 (1-2) 13-22
- M. Rahimi, S.S. Madaeni and K. Abbasi. **CFD modeling of permeate flux in cross-flow microfiltration membrane.** *Journal of Membrane Science* 2005, 255 (1-2) 23-31
- H.A. Tsai, Y.S. Ciou, C.C. Hu, K.R. Lee, D.G. Yu and J.Y. Lai. **Heat-treatment effect on the morphology and pervaporation performances of asymmetric PAN hollow fiber membranes.** *Journal of Membrane Science* 2005, 255 (1-2) 33-47
- Ana Rita Costa and Maria Norberta de Pinho. **Effect of membrane pore size and solution chemistry on the ultrafiltration of humic substances solutions.** *Journal of Membrane Science* 2005, 255 (1-2) 49-56
- S.S. Yi, Y.C. Lu and G.S. Luo. **An in situ coupling separation process of electro-electrodialysis with back-extraction.** *Journal of Membrane Science* 2005, 255 (1-2) 57-65
- A.L. Ahmad and B.S. Ooi. **Properties–performance of thin film composites membrane: study on trimesoyl chloride content and polymerization time.** *Journal of Membrane Science* 2005, 255 (1-2) 67-77
- Ruey-Shin Juang, Su-Hsia Lin and Min-Chih Yang. **Mass transfer analysis on air stripping of VOCs from water in microporous hollow fibers.** *Journal of Membrane Science* 2005, 255 (1-2) 79-87
- Jun Zhang, Shan-Jing Yao and Yi-Xin Guan. **Preparation of macroporous sodium cellulose sulphate/poly(dimethyldiallylammonium chloride) capsules and their characteristics.** *Journal of Membrane Science* 2005, 255 (1-2) 89-98
- Paul James Smith, Saravanamuthu Vigneswaran, Huu Hao Ngo, Roger Ben-Aim and Hung Nguyen. **Design of a generic control system for optimising back flush durations in a submerged membrane hybrid reactor.** *Journal of Membrane Science* 2005, 255 (1-2) 99-106
- Changquan Qiu, Fan Xu, Quang Trong Nguyen and Zhenghua Ping. **Nanofiltration membrane prepared from cardo polyetherketone ultrafiltration membrane by UV-induced grafting method.** *Journal of Membrane Science* 2005, 255 (1-2) 107-115
- Berrin Tansel, John Sager, Tony Rector, Jay Garland, Richard F. Strayer, Lanfang Levine, Michael Roberts, Mary Hummerick and Jan Bauer. **Integrated evaluation of a sequential membrane filtration system for recovery of bioreactor effluent during long space missions.** *Journal of Membrane Science* 2005, 255 (1-2) 117-124
- Zhihong Xu, Lei Li, Fawen Wu, Shujuan Tan and Zhibing Zhang. **The application of the modified PVDF ultrafiltration membranes in further purification of Ginkgo biloba extraction.** *Journal of Membrane Science* 2005, 255 (1-2) 125-131
- M.J. Gonzalez-Munoz, S. Luque, J.R. Alvarez and J. Coca. **A predictive model for the extraction and simultaneous stripping of phenylglycine from alkaline solutions using membrane contactors.** *Journal of Membrane Science* 2005, 255 (1-2) 133-140
- Brian R. Einsla, Yu Seung Kim, Michael A. Hickner, Young-Taik Hong, Melinda L. Hill, Bryan S. Pivovar and James E. McGrath. **Sulfonated naphthalene dianhydride based polyimide copolymers for proton-exchange-membrane fuel cells: II. Membrane properties and fuel cell performance.** *Journal of Membrane Science* 2005, 255 (1-2) 141-148
- Xianfeng Li, Changpeng Liu, Hui Lu, Chengji Zhao, Zhe Wang, Wei Xing and Hui Na. **Preparation and characterization of sulfonated poly(ether ether ketone) proton exchange membranes for fuel cell application.** *Journal of Membrane Science* 2005, 255 (1-2) 149-155
- Arlindo Canico Gomes, Isolina Cabral Goncalves and Maria Norberta de Pinho. **The role of adsorption on nanofiltration of azo dyes.** *Journal of Membrane Science* 2005, 255 (1-2) 157-165
- J.C. Jansen, M. Macchione and E. Drioli. **High flux asymmetric gas separation membranes of modified poly(ether ether ketone) prepared by the dry phase inversion technique.** *Journal of Membrane Science* 2005, 255 (1-2) 167-180

- D.J. Upadhyay and N.V. Bhat. **Separation of azeotropic mixture using modified PVA membrane.** *Journal of Membrane Science* 2005, 255 (1-2) 181-186
- Shahnawaz H. Molla and Subir Bhattacharjee. **Prevention of colloidal membrane fouling employing dielectrophoretic forces on a parallel electrode array.** *Journal of Membrane Science* 2005, 255 (1-2) 187-199
- Xiaobo Chen, Weishen Yang, Jie Liu and Liwu Lin. **Synthesis of zeolite NaA membranes with high permeance under microwave radiation on mesoporous-layer-modified macroporous substrates for gas separation.** *Journal of Membrane Science* 2005, 255 (1-2) 201-211
- Leland M. Vane and Franklin R. Alvarez. **Vibrating pervaporation modules: Effect of module design on performance.** *Journal of Membrane Science* 2005, 255 (1-2) 213-224
- R. Fugere, N. Mameri, J.E. Gallot and Y. Comeau. **Treatment of pig farm effluents by ultrafiltration.** *Journal of Membrane Science* 2005, 255 (1-2) 225-231
- Christine M. Moore, Sarah Hackman, Terrance Brennan and Shelley D. Minter. **Effects of surfactants on the transport properties of redox species through Nafion® membranes.** *Journal of Membrane Science* 2005, 255 (1-2) 233-238
- A.M. Alklaibi and Noam Lior. **Transport analysis of air-gap membrane distillation.** *Journal of Membrane Science* 2005, 255 (1-2) 239-253
- J. Geens, K. Peeters, B. Van der Bruggen and C. Vandecasteele. **Polymeric nanofiltration of binary water-alcohol mixtures: Influence of feed composition and membrane properties on permeability and rejection.** *Journal of Membrane Science* 2005, 255 (1-2) 255-264
- Youn Kook Kim, Ho Bum Park and Young Moo Lee. **Preparation and characterization of carbon molecular sieve membranes derived from BTDA-ODA polyimide and their gas separation properties.** *Journal of Membrane Science* 2005, 255 (1-2) 265-273
- V.Y. Dindore, D.W.F. Brillman and G.F. Versteeg. **Modelling of cross-flow membrane contactors: Mass transfer with chemical reactions.** *Journal of Membrane Science* 2005, 255 (1-2) 275-289
- Jim C. Chen, Menachem Elimelech and Albert S. Kim. **Monte Carlo simulation of colloidal membrane filtration: Model development with application to characterization of colloid phase transition.** *Journal of Membrane Science* 2005, 255 (1-2) 291-305