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- Jesus Garcia-Aleman and James M. Dickson. **Mathematical modeling of nanofiltration membranes with mixed electrolyte solutions**, *Journal of Membrane Science* 2004, **235** (1-2) 1-13
- Yoshinobu Tanaka. **Overall mass transport and solution leakage in an ion-exchange membrane electro dialyzer**. *Journal of Membrane Science* 2004, **235** (1-2) 15-24
- S. Matsui and D. R. Paul. **A simple model for pervaporative transport of binary mixtures through rubbery polymeric membranes**. *Journal of Membrane Science* 2004, **235** (1-2) 25-30
- Debabrata Bhaumik, Sudipto Majumdar, Qiuxi Fan and Kamalesh K. Sirkar. **Hollow fiber membrane degassing in ultrapure water and microbioccontamination**. *Journal of Membrane Science* 2004, **235** (1-2) 31-41
- Li Liu, Amit Chakma and Xianshe Feng. **A novel method of preparing ultrathin poly(ether block amide) membranes**. *Journal of Membrane Science* 2004, **235** (1-2) 43-52
- V. V. Guliants, M. A. Carreon and Y. S. Lin. **Ordered mesoporous and macroporous inorganic films and membranes**. *Journal of Membrane Science* 2004, **235** (1-2) 53-72
- Zhaoan Chen, Maicun Deng, Yong Chen, Gaohong He, Ming Wu and Junde Wang. **Preparation and performance of cellulose acetate/polyethyleneimine blend microfiltration membranes and their applications**. *Journal of Membrane Science* 2004, **235** (1-2) 73-86
- Ho Bum Park, Chul Ho Jung, Youn Kook Kim, Sang Yong Nam, Sun Yong Lee and Young Moo Lee. **Pyrolytic carbon membranes containing silica derived from poly(imide siloxane): the effect of siloxane chain length on gas transport behavior and a study on the separation of mixed gases**. *Journal of Membrane Science* 2004, **235** (1-2) 87-98
- V. Y. Dindore, D. W. F. Brillman, P. H. M. Feron and G. F. Versteeg. **CO₂ absorption at elevated pressures using a hollow fiber membrane contactor**. *Journal of Membrane Science* 2004, **235** (1-2) 99-109
- Omar Akoum, Michel Y. Jaffrin, Lu Hui Ding and Matthieu Frappart. **Treatment of dairy process waters using a vibrating filtration system and NF and RO membranes**. *Journal of Membrane Science* 2004, **235** (1-2) 111-122
- A. A. Moya and J. Horno. **Study of the linearity of the voltage-current relationship in ion-exchange membranes using the network simulation method**. *Journal of Membrane Science* 2004, **235** (1-2) 123-129
- Antonio Guadix, Eva Sorensen, Lazaros G. Papageorgiou and Emilia M. Guadix. **Optimal design and operation of continuous ultrafiltration plants**. *Journal of Membrane Science* 2004, **235** (1-2) 131-138
- Youn Kook Kim, Ji Min Lee, Ho Bum Park and Young Moo Lee. **The gas separation properties of carbon molecular sieve membranes derived from polyimides having carboxylic acid groups**. *Journal of Membrane Science* 2004, **235** (1-2) 139-146
- Fu-Qiang Nie, Zhi-Kang Xu, Qian Yang, Jian Wu and Ling-Shu Wan. **Surface modification of poly(acrylonitrile-co-maleic acid) membranes by the immobilization of poly(ethylene glycol)**. *Journal of Membrane Science* 2004, **235** (1-2) 147-155

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- Modeling of a radial flow hollow fiber module and estimation of model parameters using numerical techniques, *Journal of Membrane Science* 2004, **236** (1-2) 1-16
- Ying Cui, Hidetoshi Kita and Ken-Ichi Okamoto. **Zeolite T membrane: preparation, characterization, pervaporation of water/organic liquid mixtures and acid stability**. *Journal of Membrane Science* 2004, **236** (1-2) 17-27
- Nancy K. Lape, Eric E. Nuxoll and E. L. Cussler. **Polydisperse flakes in barrier films**. *Journal of Membrane Science* 2004, **236** (1-2) 29-37
- Jen Ming Yang, Wen Yu Su, Te Lang Leu and Ming Chien Yang. **Evaluation of chitosan/PVA blended hydrogel membranes**. *Journal of Membrane Science* 2004, **236** (1-2) 39-51
- Dong-Wook Lee, Yoon-Gyu Lee, Bongkuk Sea, Son-Ki Ihm and Kew-Ho Lee. **Improvement in thermal stability of stainless steel supported silica membranes by the soaking-rolling method**. *Journal of Membrane Science* 2004, **236** (1-2) 53-63
- Tomonori Saito, Hidetaka Kawakita, Kazuya Uezu, Satoshi Tsuneda, Akira Hirata, Kyoichi Saito, Masao Tamada and Takanobu Sugo. **Structure of polyol-ligand-containing polymer brush on the porous membrane for antimony(III) binding**. *Journal of Membrane Science* 2004, **236** (1-2) 65-71
- F. M. Figueiredo, V. V. Kharton, A. P. Viskup and J. R. Frade. **Surface enhanced oxygen permeation in CaTi_{1-x}FexO₃ ceramic membranes**. *Journal of Membrane Science* 2004, **236** (1-2) 73-80
- Fredrik Jareman, Jonas Hedlund, Derek Creaser and Johan Sterte. **Modelling of single gas permeation in real MFI membranes**. *Journal of Membrane Science* 2004, **236** (1-2) 81-89

- S. Aoyagi, M. Hayama, U. Hasegawa, K. Sakai, M. Tozu, T. Hoshi and M. Kudo. **Estimation of protein adsorption on dialysis membrane by means of TOF-SIMS imaging.** *Journal of Membrane Science* 2004, **236** (1-2) 91-99
- Tijana Zivkovic, Nieck E. Benes and Henny J. M. Bouwmeester. **Gas transport efficiency of ceramic membranes: comparison of different geometries.** *Journal of Membrane Science* 2004, **236** (1-2) 101-108
- V. M. Barragan, C. Ruiz-Bauza, J. P. G. Villaluenga and B. Seoane. **On the methanol-water electroosmotic transport in a Nafion membrane.** *Journal of Membrane Science* 2004, **236** (1-2) 109-120
- Ludmila G. Peeva, Emma Gibbins, Satinder S. Luthra, Lloyd S. White, Roumiana P. Stateva and Andrew G. Livingston. **Effect of concentration polarisation and osmotic pressure on flux in organic solvent nanofiltration.** *Journal of Membrane Science* 2004, **236** (1-2) 121-136
- Akon Higuchi, Masahiko Kyokon, Sachiyo Murayama, Masanobu Yokogi, Tomoko Hirasaki and Sei-Ichi Manabe. **Effect of aggregated protein sizes on the flux of protein solution through microporous membranes.** *Journal of Membrane Science* 2004, **236** (1-2) 137-144
- Ju-Meng Zheng, Zhi-Kang Xu, Jian-Mei Li, Shu-Yuan Wang and You-Yi Xu. **Influence of random arrangement of hollow fiber membranes on shell side mass transfer performance: a novel model prediction.** *Journal of Membrane Science* 2004, **236** (1-2) 145-151
- Roland Gilbert, Hong Phuong Nguyen, Jocelyn Jalbert and Sylvie Charbonneau. **Transport properties of a mixture of permanent gases and light hydrocarbons through the polytetrafluoroethylene capillary tubes of a GP-100 gas extractor.** *Journal of Membrane Science* 2004, **236** (1-2) 153-161
- Sang Wook Kang, Jong Hak Kim, Kyung Seok Oh, Jongok Won, Kookheon Char, Hoon Sik Kim and Yong Soo Kang. **Highly stabilized silver polymer electrolytes and their application to facilitated olefin transport membranes.** *Journal of Membrane Science* 2004, **236** (1-2) 163-169
- Poonam Mulherkar and Robert van Reis. **Flex test: a fluorescent dextran test for UF membrane characterization.** *Journal of Membrane Science* 2004, **236** (1-2) 171-182
- A. F. Ismail and S. N. Kumari. **Potential effect of potting resin on the performance of hollow fibre membrane modules in a CO₂/CH₄ gas separation system.** *Journal of Membrane Science* 2004, **236** (1-2) 183-191
- Manjuan She and Sun-Tak Hwang. **Concentration of dilute flavor compounds by pervaporation: permeate pressure effect and boundary layer resistance modeling.** *Journal of Membrane Science* 2004, **236** (1-2) 193-202
- Seong Hyun Yoo, Jong Hak Kim, Jae Young Jho, Jongok Won and Yong Soo Kang. **Influence of the addition of PVP on the morphology of asymmetric polyimide phase inversion membranes: effect of PVP molecular weight.** *Journal of Membrane Science* 2004, **236** (1-2) 203-207
- Jong Hak Kim, Su Mi Park, Jongok Won and Yong Soo Kang. **Dependence of facilitated olefin transport on the thickness of silver polymer electrolyte membranes.** *Journal of Membrane Science* 2004, **236** (1-2) 209-212