

- Yoshinobu Tanaka. **Concentration polarization in ion-exchange membrane electro dialysis: The events arising in an unforced flowing solution in a desalting cell**, *Journal of Membrane Science* 2005, **244** (1-2)1-16
- Cecile Vallieres and Eric Favre. **Vacuum versus sweeping gas operation for binary mixtures separation by dense membrane processes**. *Journal of Membrane Science* 2005, **244** (1-2) 17-23
- E.N. Komkova, D.F. Stamatialis, H. Strathmann and M. Wessling. **Anion-exchange membranes containing diamines: preparation and stability in alkaline solution**. *Journal of Membrane Science* 2005, **244** (1-2) 25-34
- Rosa Rego, Nidia Caetano, Rui Vale and Adelio Mendes. **Development of a new gas sensor for binary mixtures based on the permselectivity of polymeric membranes. Application to oxygen/nitrogen mixture**. *Journal of Membrane Science* 2005, **244** (1-2) 35-44
- S.T. Oyama, D. Lee, P. Hacıoğlu and R.F. Saraf. **Theory of hydrogen permeability in nonporous silica membranes**. *Journal of Membrane Science* 2005, **244** (1-2) 45-53
- Kurt S. Rothenberger, Anthony V. Cugini, Bret H. Howard, Richard P. Killmeyer, Michael V. Ciocco, Bryan D. Morreale, Robert M. Enick, Felipe Bustamante, Ivan P. Mardilovich and Yi H. Ma. **High pressure hydrogen permeance of porous stainless steel coated with a thin palladium film via electroless plating**. *Journal of Membrane Science* 2005, **244** (1-2) 55-68
- Dmitri Bessarabov and Ron Sanderson. **Solid polyelectrolyte (SPE) membranes with textured surface**. *Journal of Membrane Science* 2005, **244** (1-2) 69-76
- Lu Shao, Tai-Shung Chung, Glen Wensley, Suat Hong Goh and Kumari Pallathadka Pramoda. **Casting solvent effects on morphologies, gas transport properties of a novel 6FDA/PMDA-TMMDA copolyimide membrane and its derived carbon membranes**. *Journal of Membrane Science* 2005, **244** (1-2) 77-87
- M.A. Ben Ali, M. Rakib, S. Laborie, Ph. Viers and G. Durand. **Coupling of bipolar membrane electro dialysis and ammonia stripping for direct treatment of wastewaters containing ammonium nitrate**. *Journal of Membrane Science* 2005, **244** (1-2) 89-96
- Goran T. Vladislavjevic, Masataka Shimizu and Tadao Nakashima. **Preparation of monodisperse multiple emulsions at high production rates by multi-stage premix membrane emulsification**. *Journal of Membrane Science* 2005, **244** (1-2) 97-106
- Li Zhao, Martin Bram, Hans Peter Buchkremer, Deltev Stover and Zi Li. **Preparation of TiO₂ composite microfiltration membranes by the wet powder spraying method**. *Journal of Membrane Science* 2005, **244** (1-2) 107-115
- Pierre Schaezel, Catherine Vauclair, Quang Trong Nguyen and Roger Bouzerar. **A simplified solution-diffusion theory in pervaporation: the total solvent volume fraction model**. *Journal of Membrane Science* 2005, **244** (1-2) 117-127
- Shengwei Ma, Lianfa Song, Say Leong Ong and Wun Jern Ng. **A 2-D streamline upwind Petrov/Galerkin finite element model for concentration polarization in spiral wound reverse osmosis modules**. *Journal of Membrane Science* 2005, **244** (1-2) 129-139
- M.P. Pina, M. Arruebo, M. Felipe, F. Fleta, M.P. Bernal, J. Coronas, M. Menendez and J. Santamaria. **A semi-continuous method for the synthesis of NaA zeolite membranes on tubular supports**. *Journal of Membrane Science* 2005, **244** (1-2) 141-150
- Seok-Tae Kang, Arun Subramani, Eric M.V. Hoek, Marc A. Deshusses and Mark R. Matsumoto. **Direct observation of biofouling in cross-flow microfiltration: mechanisms of deposition and release**. *Journal of Membrane Science* 2005, **244** (1-2) 151-165
- Y. Huang and D.R. Paul. **Experimental methods for tracking physical aging of thin glassy polymer films by gas permeation**. *Journal of Membrane Science* 2005, **244** (1-2) 167-178
- J. Zheng, C. Feng and T. Matsuura. **Study on reduction of inorganic membrane fouling by ultraviolet irradiation**. *Journal of Membrane Science* 2005, **244** (1-2) 179-182
- L. Starannikova, V. Khodzhaeva and Yu. Yampolskii. **Mechanism of aging of poly[1-(trimethylsilyl)-1-propyne] and its effect on gas permeability**. *Journal of Membrane Science* 2005, **244** (1-2) 183-191
- Jun Yan and Rajinder Pal. **Effects of aqueous-phase acidity and salinity on isotonic swelling of W/O/W emulsion liquid membranes under agitation conditions**. *Journal of Membrane Science* 2005, **244** (1-2) 193-203
- Ignacio Moreno-Villoslada, Victor Miranda, Robin Gutierrez, Susan Hess, Carla Munoz and Bernabe L. Rivas. **Interactions of 2,3,5-triphenyl-2H-tetrazolium chloride with poly(sodium 4-styrenesulfonate) studied by diafiltration and UV-vis spectroscopy**. *Journal of Membrane Science* 2005, **244** (1-2) 205-213
- How Y. Ng and Menachem Elimelech. **Influence of colloidal fouling on rejection of trace organic contaminants by reverse osmosis**. *Journal of Membrane Science* 2005, **244** (1-2) 215-226
- Ingo Pinnau and Zhenjie He. **Pure- and mixed-gas permeation properties of polydimethylsiloxane for hydrocarbon/methane and hydrocarbon/hydrogen separation**. *Journal of Membrane Science* 2005, **244** (1-2) 227-233
- N.S. Krishna Kumar, M.K. Yea and M. Cheryan. **Ultrafiltration of soy protein concentrate: performance and modelling of spiral and tubular polymeric modules**. *Journal of Membrane Science* 2005, **244** (1-2) 235-242
- B.S. Liu, W.D. Zhang, W.L. Dai and J.F. Deng. **Thermal stability, hydrogen adsorption and separation performance of Ni-based amorphous alloy membranes**. *Journal of Membrane Science* 2005, **244** (1-2) 243-249

Samuel P. Kusumocahyo, Toshiyuki Kanamori, Kimio Sumaru, Satoshi Aomatsu, Hideto Matsuyama, Masaaki Teramoto and Toshio Shinbo. **Development of polymer inclusion membranes based on cellulose triacetate: carrier-mediated transport of cerium(III).** *Journal of Membrane Science* 2005, 244 (1-2) 251-257