

## Other Publications:

- **J. Su**, S. Zhang, M.M. Ling, T.S. Chung, Forward osmosis: an emerging technology for sustainable supply of clean water, *Clean Techn Environ Policy* 2012, 14:507-511.
- **J. Su**, T.S. Chung, Bradley J. Helmer, Jos S. de Wit, Enhanced double-skinned FO membranes with inner dense layer for wastewater treatment and macromolecule recycle using sucrose as draw solute, *J. Membr. Sci.*, 2012, 396: 92-100.
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- Q. Ge, **J. Su**, T.S. Chung and G. Amy, Hydrophilic superparamagnetic nanoparticles: synthesis, characterization, and performance in forward osmosis processes, *Ind. Eng. Chem. Res.* 2011, 50: 382–388.
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- **J. Su**, S. Zhang, H.Z. Chen, H.M. Chen, Y.C. Jean and T.S. Chung, Effects of annealing on the microstructure and performance of cellulose acetate membranes for pressure-retarded osmosis processes, *J. Membr. Sci.* 2010, 364: 344–353.
- **J. Su**, Q. Yang, J.F. Teo and T.S. Chung, Cellulose acetate nanofiltration hollow fiber membranes for forward osmosis processes, *J. Membr. Sci.* 2010, 355: 36-44.
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- **J. Su**, S.Q. Liu, S.C. Joshi and Y.C. Lam, Effect of SDS on the gelation of hydroxypropylmethyl cellulose hydrogels, *J. Therm. Anal. Cal.* 2008, 93: 495–501.
- **J. Su** and A.C. Lua, Effects of carbonisation atmosphere on the structural characteristics and transport properties of carbon membranes prepared from Kapton(R) polyimide, *J. Membr. Sci.* 2007, 263–270.

- A.C. Lua and **J. Su**, Isothermal and non-isothermal pyrolysis kinetics of Kapton(R) polyimide, *Polym. Degrad. Stab.* 2006, 91: 144–153.
- **J. Su** and A.C. Lua, Influence of carbonisation parameters on the transport properties of carbon membranes by statistical analysis, *J. Membr. Sci.* 2006, 278: 335–343.
- A.C. Lua and **J. Su**, Effects of carbonisation on pore evolution and gas permeation properties of carbon membranes from Kapton® polyimide, *Carbon* 2006, 44: 2964–2972.
- **J. Su** and J. Qiu, Preparation of activated carbon fiber-based composite adsorbent and its gas separation performance, *Carbon Techniques*, 2001, 3: 1–4.
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#### Conference presentations:

- L. Mao, F. Wang, R.C. Ong, S. Lin, M.A.D.B. Atan, **J. Su**, Development of multibore hollow fiber membranes for water deoxygenation, 26<sup>th</sup> Annual Meeting of the North American Membrane Society, Bellevue, Washington USA, May 21-25, 2016.
- R.C. Ong, **J. Su**, B.J. Helmer, J.S. de Wit, T.-S. Chung, Novel cellulose esters for forward osmosis membranes, AIChE Annual Meeting 2012, Pittsburgh, PA, USA, October 28-November 2, 2012.
- **J. Su**, R.C. Ong, B.J. Helmer, J.S. de Wit, T.-S. Chung, An advanced design of membrane structure for wastewater treatment through forward osmosis, AIChE Annual Meeting 2012, Pittsburgh, PA, USA, Oct. 28-Nov. 2, 2012.
- Q. Ge, **J. Su**, G. Amy, T.-S. Chung, Novel draw solution of polyelectrolytes in forward osmosis processes, 22<sup>nd</sup> Annual Meeting of the North American Membrane Society, New Orleans, USA, June 9-13, 2012.
- S. Zhang, X. Li, Y.K. Wang, **J. Su**, R.C. Ong, N. Widjojo, H.L. Wang, P. Sukitpaneenit, S. Sun, G. Han, T.-S. Chung, Membrane development for forwards osmosis, Desalination for the Environment and Clean Water and Energy, Barcelona, Spain, April 22-24, 2012.
- M.M. Ling, Q. Ge, **J. Su**, G. Amy, T.-S. Chung, Molecular designs of novel draw solutes in forward osmosis for desalination, Desalination for the Environment and Clean Water and Energy, Barcelona, Spain, April 22-24, 2012.
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- **J. Su**, R.C. Ong, B.J. Helmer, T.S. Chung, Investigation of novel forward osmosis membranes with reduced internal concentration polarization for water reuses, International Conference on Materials for Advanced Technologies, 2011, Singapore, Jun. 26-Jul. 1, 2011.
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- **J. Su** and T.S. Chung, Effect of annealing on the morphology and performance of cellulose acetate forward osmosis membranes, 20<sup>th</sup> Meeting of the North American Membrane Society, Washington D.C., USA, Jul. 17-22, 2010.
- K.Y. Wang, Q. Yang, **J. Su**, T.S. Chung, Single-layer and dual-layer PBI nanofiltration hollow fiber membrane for the application of forward osmosis, 19<sup>th</sup> Meeting of the North American Membrane Society, Charleston, S.C. USA, Jun. 20-4, 2009.
- K.Y. Wang, Q. Yang, **J. Su**, T.S. Chung, R. Rajagopalan, Developing nanofiltration hollow fiber membranes for seawater desalination and waste water treatment by forward osmosis, 8<sup>th</sup> World Congress of Chemical Engineering, Montreal, QC, Canada, Aug. 23-27, 2009.
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## Patent

- Q.C. Ge, T.S. Chung, **J. Su**, Y. Cui, Forward osmosis system using coordination complexes, **US 20160016116 A1**
- M.M. Ling, T.S. Chung, K.Y. Wang, Q. Ge, **J. Su**, Forward osmosis process using hydrophilic magnetic nanoparticles as draw solutes, **WO 2011099941 A1**