SMTC Published Papers  
(Books, Chapters, Journals, Conference Papers & Keynote)

2008

In SCI Journals


Books/Chapters


Conference/Invited


Keynote


2009

In SCI Journals


Books/Chapters


Conference/Invited


13. Tang, C.Y., Membrane technology for clean water and clean energy applications, Invited, September 2009, Department of Civil Engineering, the University of Hong Kong, Hong Kong.


Updated 25Jan2016
Keynote


2010

In SCI Journals


Books/Chapters


Conference/Invited


20. Tang, C.Y., Forward osmosis for water and energy applications – opportunities and challenges, Invited talk, July 16, Department of Civil and Environmental Engineering, Stanford University, California.


**Keynote**


2011

In SCI Journals


Books/Chapters


Conference/Invited


4. Fane, A.G. & Yeo, A. et al., Invited Talk, Singapore Membrane Technology Centre: Action for good activities, IDA World Congress on Desalination & Water Reuse, Perth Australia, 5 -9 September, 2011.


7. Fane, A.G., Invited Seminar, Recent developments in membrane science and technology, Seminar Imperial College, 21 September 2011


Comparison between the Membrane Distillation Bioreactor (MDBR) and MD, Oral Presentation, Young Water Talent Symposium, 4 July 2011, SunTec City, Singapore.


Keynote


2012

In SCI Journals


Books/Chapters


Conference/Invited


In SCI Journals


Updated 25Jan2016


24. Kunli Goh, Laurentia Setiawan, Li Wei, Wenchao Jiang, Rong Wang, Yuan Chen, Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. Journal of Membrane Science, 446, (1 November 2013), 244-254


41. Tian, Miao (Tian, M.); Qiu, Changquan (Qiu, C.); Liao, Yuan (Liao, Y.); Chou, Shuren (Chou, S.); Wang, Rong (Wang, R.), Preparation of polyamide thin film composite forward osmosis membranes using electrospun polyvinylidene fluoride (PVDF) nanofibers as substrates, Separation and Purification Technology, Volume 118 Pages:727-736, DOI: 10.1016/j.seppur.2013.08.021, Published: OCT 30 2013


33 of 50


Books/Chapters


Conference/Invited


5. Goh, S. (Shuwen Goh), Zhang, J. (Jinsong Zhang), Liu, Y. (Yu Liu), Fane, A.G. (Anthony G. Fane), Membrane Distillation Bioreactor (MDBR): Challenges and Solutions, IMSTEC 2013, 25 - 29 Nov 2013, Melbourne, Australia. (Oral Presentation)


7. Lee Nuang Sim, Jun Gu, Zhijuan Wang, Hans Coster, Anthony G. Fane, Electrical Impedance Spectroscopy as a real time non-invasive monitoring tool during reverse osmosis fouling and cleaning processes, Oral Presentation, 7th IWA Specialized
Membrane Technology Conference and Exhibition for Water and Wastewater Treatment and Reuse (IWA-MTC2013), August 25 to 29, 2013 Toronto Canada.


9. Siew-Leng Loo, William B. Krantz, Teik-Thye Lim, Anthony G. Fane, Xiao Hu, Novel superabsorbent cryogels for potable-water production in emergencies, Oral Presentation, 4th International Conference for Young Chemists, 30th January to 1st February 2013, Penang, Malaysia.


2014

In SCI Journals


2. Akhondi, E (Akhondi, Ebrahim); Wicaksana, F (Wicaksana, Filicia); Fane, AG (Fane, Anthony Gordon), Evaluation of fouling deposition, fouling reversibility and energy consumption of submerged hollow fiber membrane systems with periodic backwash, JOURNAL OF MEMBRANE SCIENCE, Volume: 452 Pages: 319-331, DOI: 10.1016/j.memsci.2013.10.031, Published: FEB 15 2014,


5. Barnes, RJ (Barnes, Robert J.); Bandi, RR (Bandi, Ratnaharika R.); Chua, F (Chua, Felicia); Low, JH (Low, Jiun Hui); Aung, T (Aung, Theingi); Barraud, N (Barraud, Nicolas); Fane, AG (Fane, Anthony G.); Kjelleberg, S (Kjelleberg, Staffan; Rice, SA (Rice, Scott A.) The roles of Pseudomonas aeruginosa extracellular polysaccharides in biofouling of reverse osmosis membranes and nitric oxide induced dispersal, JOURNAL OF MEMBRANE SCIENCE, Volume: 466, Pages: 161-172, DOI: 10.1016/j.memsci.2014.04.046, Published: SEP 15 2014


7. Chen, GZ (Chen, Guizi); Lu, YH (Lu, Yinghong); Krantz, WB (Krantz, William B.); Wang, R (Wang, Rong); Fane, AG (Fane, Anthony G.), Optimization of operating conditions for a continuous membrane distillation crystallization process with zero salty water discharge, JOURNAL OF MEMBRANE SCIENCE, Volume: 450 Pages: 1-11, DOI: 10.1016/j.memsci.2013.08.034, Published: JAN 15 2014
8. Chen, GZ (Chen, Guizi), Yang, X (Yang, Xing), Lu, YH (Lu, Yinghong), Wang, R (Wang, Rong), Fane, AG (Fane, Anthony G.), Heat transfer intensification and scaling mitigation in bubbling-enhanced membrane distillation for brine concentration, JOURNAL OF MEMBRANE SCIENCE, Volume: 470, Pages: 60-69, DOI: 10.1016/j.memsci.2014.07.017, Published: NOV 15 2014.

9. Chen, GZ (Chen, Guizi), Lu, YH (Lu, Yinghong), Yang, X (Yang, Xing), Wang, R (Wang, Rong), Fane, AG (Fane, Anthony G.), Quantitative Study on Crystallization-Induced Scaling in High-Concentration Direct-Contact Membrane Distillation, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, Volume: 53, Issue: 40, Pages: 15656-15666, DOI: 10.1021/ie501610q, Published: OCT 8 2014.

10. Chen, L (Chen, Lin); Gu, YS (Gu, Yangshuo); Cao, CQ (Cao, Chuqing); Zhang, J (Zhang, Jun); Ng, JW (Ng, Jing-Wen); Tang, CY (Tang, Chuyang), Performance of a submerged anaerobic membrane bioreactor with forward osmosis membrane for low-strength wastewater treatment, WATER RESEARCH, Volume: 50, Pages: 114-123, DOI: 10.1016/j.watres.2013.12.009, Published: MAR 1 2014.

11. Chew, JW (Chew, Jia Wei); Krantz, WB (Krantz, William B.); Fane, AG (Fane, Anthony G.), Effect of a macromolecular- or bio-fouling layer on membrane distillation, JOURNAL OF MEMBRANE SCIENCE, Volume: 456 Pages: 66-76, DOI: 10.1016/j.memsci.2014.01.025, Published: APR 15 2014


13. Fane, T (Fane, Tony); Tang, CY (Tang, Chuyang), Special issue foreword, DESALINATION, Volume: 343, Pages: 1-1, Special Issue: SI, DOI: 10.1016/j.desal.2014.02.018, Published: JUN 16 2014.

14. Fang, WX (Fang, Wangxi), Shi, L (Shi, Lei), Wang, R (Wang, Rong), Mixed polyamide-based composite nanofiltration hollow fiber membranes with improved low-pressure water softening capability, JOURNAL OF MEMBRANE SCIENCE, Volume: 468 Pages: 52-61, DOI: 10.1016/j.memsci.2014.05.047, Published: OCT 15 2014

15. Gadelha, G (Gadelha, Gabriela); Nawaz, MS (Nawaz, Muhammad Saqib); Hankins, NP (Hankins, Nicholas P.); Khan, SJ (Khan, Sher Jamal); Wang, R (Wang, Rong); Tang, CYY (Tang, Chuyang Y.), Assessment of micellar solutions as draw solutions for forward osmosis, DESALINATION, Volume: 354, Pages: 97-106, DOI: 10.1016/j.desal.2014.09.009, Published: DEC 1 2014.


17. Goh, S. (Shuwen Goh), Zhang, J. (Jinsong Zhang), Liu, Y. (Liu Yu), and Fane, A.G. (Anthony G. Fane). Membrane Distillation Bioreactor (MDBR) – A lower Green-
18. Guan, GQ (Guan, Guoqiang), Yang, X (Yang, Xing), Wang, R (Wang, Rong), Field, R (Field, Robert), Fane, AG (Fane, Anthony G.), Evaluation of hollow fiber-based direct contact and vacuum membrane distillation systems using aspen process simulation, JOURNAL OF MEMBRANE SCIENCE, Volume: 464 Pages: 127-139 DOI: 10.1016/j.memsci.2014.03.054, Published: AUG 15 2014

19. Lee, JY (Lee, Jian-Yuan); Qi, SR (Qi, Saren); Liu, X (Liu, Xin); Li, Y (Li, Ye); Huo, FW (Huo, Fengwei); Tang, CYY (Tang, Chuyang Y.), Synthesis and characterization of silica gel-polyacrylonitrile mixed matrix forward osmosis membranes based on layer-by-layer assembly, SEPARATION AND PURIFICATION TECHNOLOGY, Volume: 124, Pages: 207-216, DOI: 10.1016/j.seppur.2014.01.029, Published: MAR 18 2014.


22. Li, T (Li, Tian); Law, AWK (Law, Adrian Wing-Keung); Fane, AG (Fane, A. G.), Submerged hollow fibre membrane filtration with transverse and longitudinal vibrations, JOURNAL OF MEMBRANE SCIENCE, Volume: 455 Pages: 83-91, DOI: 10.1016/j.memsci.2013.12.042, Published: APR 1 2014

23. Loh, CH (Loh, Chun Heng), Wang, R (Wang, Rong), Fabrication of PVDF hollow fiber membranes: Effects of low-concentration Pluronic and spinning conditions, JOURNAL OF MEMBRANE SCIENCE, Volume: 466 Pages: 130-141, DOI: 10.1016/j.memsci.2014.04.021, Published: SEP 15 2014

24. Nikkola, J (Nikkola, Juha); Sievanen, J (Sievanen, Jenni); Raulio, M (Raulio, Mari); Wei, J (Wei, Jing); Vuorinen, J (Vuorinen, Jyrki); Tang, CY (Tang, Chuyang Y.), Surface modification of thin film composite polyamide membrane using atomic layer deposition method, JOURNAL OF MEMBRANE SCIENCE, Volume: 450, Pages: 174-180, DOI: 10.1016/j.memsci.2013.09.005, Published: JAN 15 2014.

25. Rajabzadeh, S (Rajabzadeh, Saeid); Liu, C (Liu, Chang); Shi, L (Shi, Lei); Wang, R (Wang, Rong), Preparation of low-pressure water softening hollow fiber membranes by polyelectrolyte deposition with two bilayers, DESALINATION, Volume: 344 Pages: 64-70, DOI: 10.1016/j.desal.2014.03.013, Published: JUL 1 2014

26. Setiawan, L (Setiawan, Laurentia)[ 1 ] ; Shi, L (Shi, Lei)[ 1,2 ] ; Wang, R (Wang, Rong), Dual layer composite nanofiltration hollow fiber membranes for low-pressure
27. Sim, STV (Sim, S. T. V.), Taheri, AH (Taheri, A. H.), Chong, TH (Chong, T. H.), Krantz, WB (Krantz, W. B.), Fane, AG (Fane, A. G.), Colloidal metastability and membrane fouling - Effects of crossflow velocity, flux, salinity and colloid concentration, JOURNAL OF MEMBRANE SCIENCE, Volume: 469, Pages: 174-187, DOI: 10.1016/j.memsci.2014.06.020, Published: NOV 1 2014.

28. Suwarno, SR (Suwarno, S. R.) ; Chen, X (Chen, X.) ; Chong, TH (Chong, T. H.); McDougald, D (McDougald, D.); Cohen, Y (Cohen, Y.); Rice, SA (Rice, S. A.); Fane, AG (Fane, A. G.), Biofouling in reverse osmosis processes: The roles of flux, crossflow velocity and concentration polarization in biofilm development, JOURNAL OF MEMBRANE SCIENCE, Volume: 467 Pages: 116-125, DOI: 10.1016/j.memsci.2014.04.052, Published: OCT 1 2014.

29. Wu, HY (Wu, Ho Yan); Wang, R (Wang, Rong); Field, RW (Field, Robert W.), Direct contact membrane distillation: An experimental and analytical investigation of the effect of membrane thickness upon transmembrane flux, JOURNAL OF MEMBRANE SCIENCE, Volume: 470, Pages: 257-265, DOI: 10.1016/j.memsci.2014.06.002, Published: NOV 15 2014.

30. Wu, B (Wu, B.); Wong, PCY (Wong, P. C. Y.); Fane, AG (Fane, A. G.), The potential roles of granular activated carbon in anaerobic fluidized membrane bioreactors: effect on membrane fouling and membrane integrity. DESALINATION AND WATER TREATMENT, Volume: 53 Pages: 1450-1459, DOI: 10.1080/19443994.2014.943057, Published: AUG 11 2014.

31. Yang, X (Yang, X.); Fridjonsson, EO (Fridjonsson, E. O.); Johns, ML (Johns, M. L.); Wang, R (Wang, R.); Fane, AG (Fane, A. G.), A non-invasive study of flow dynamics in membrane distillation hollow fiber modules using low-field nuclear magnetic resonance imaging (MRI) JOURNAL OF MEMBRANE SCIENCE, Volume: 451 Pages: 46-54, DOI: 10.1016/j.memsci.2013.09.015, Published: FEB 1 2014.

32. Yao, L (Yao, L.); Lua, SK (Lua, S. K.); Zhang L (Zhang, L.); Wang, R (Wang, R.); Dong, Z (Dong Z.), Dye removal by surfactant encapsulated polyoxometalates, JOURNAL OF HAZARDOUS MATERIALS, Volume: 280 Pages: 428-435, DOI: 10.1016/j.jhazmat.2014.08.026, Published: Aug 23 2014.


34. Zamani, F (Zamani, Farhad); Wicaksana, F (Wicaksana, Filicia); Taheri, AH (Taheri, Amir H.); Law, AWK (Law, Adrian W. K.); Fane, AG (Fane, Anthony G.); Krantz, WB (Krantz, William B.), Generalized criterion for the onset of particle deposition in

35. Zhang, Jiefeng; She, Qianhong; Chang, Victor W. C.; et al., Mining Nutrients (N, K, P) from Urban Source-Separated Urine by Forward Osmosis Dewatering, ENVIRONMENTAL SCIENCE & TECHNOLOGY Volume: 48 Issue: 6 Pages: 3386-3394 Published: MAR 18 2014

36. Zhang, Minmin; Hou, Dianxun; She, Qianhong; et al., Gypsum scaling in pressure retarded osmosis: Experiments, mechanisms and implications, WATER RESEARCH Volume: 48 Pages: 387-395 Published: JAN 1 2014

37. Zhang, QY (Zhang, Qiaoyun)[ 1 ] ; Jie, YW (Jie, Yap Wei)[ 2 ] ; Loong, WLC (Loong, Winson Lay Chee)[ 2 ] ; Zhang, JS (Zhang, Jinsong)[ 2 ] ; Fane, AG (Fane, Anthony G.)[ 2 ] ; Kjelleberg, S (Kjelleberg, Staffan)[ 3,4,5 ] ; Rice, SA (Rice, Scott A.); McDougald, D (McDougald, Diane), Characterization of biofouling in a lab-scale forward osmosis membrane bioreactor (FOMBR), WATER RESEARCH, Volume: 58, Pages: 141-151, DOI: 10.1016/j.waterres.2014.03.052, Published: JUL 1 2014


39. Zuo, GZ (Zuo, Guangzhi)[ 1,2 ] ; Guan, GQ (Guan, Guoqiang)[ 2,3 ] ; Wang, R (Wang, Rong), Numerical modeling and optimization of vacuum membrane distillation module for low-cost water production, DESALINATION, Volume: 339 Pages: 1-9, DOI: 10.1016/j.desal.2014.02.005, Published: APR 15 2014

Conference/Invited


41 of 50


2015

In SCI Journals

1. Barnes, RJ (Barnes, Robert J.); Low, JH (Low, Jiun Hui); Bandi, RR (Bandi, Ratnaharika R.); Tay, M (Tay, Martin); Chua, F (Chua, Felicia); Aung, T (Aung, Theingi); Fane, AG (Fane, Anthony G.); Kjelleberg, S (Kjelleberg, Staffan); Rice, SA (Rice, Scott A.), Nitric Oxide Treatment for the Control of Reverse Osmosis Membrane Biofouling, APPLIED AND ENVIRONMENTAL MICROBIOLOGY, Volume: 81, Issue: 7, Pages: 2515-2524, DOI: 10.1128/AEM.03404-14, Published: APR 2015

2. Booshehri, AY (Booshehri, Amin Yoosefi) ; Wang, R (Wang, Rong) ; Xu, R (Xu, Rong), Simple method of deposition of CuO nanoparticles on a cellulose paper and its antibacterial activity, CHEMICAL ENGINEERING JOURNAL, Volume: 262, Pages: 999-1008, DOI: 10.1016/j.cej.2014.09.096, Published: FEB 5 2015

3. Cai, YF (Cai, Yufeng); Wang, R (Wang, Rong); Krantz, WB (Krantz, William B.); Fane, AG (Fane, Anthony G.); Hu, X (Hu, Xiao 'Mathew'), Exploration of using thermally responsive polyionic liquid hydrogels as draw agents in forward osmosis RSC ADVANCES, Volume: 5 Issue: 118 Pages: 97143-97150 Published: 2015

4. Cai, YF (Cai, Yufeng); Shen, WM (Shen, Wenming); Wei, J (Wei, Jing) ; Chong, TH (Chong, Tzyy Haur); Wang, R (Wang, Rong) ; Krantz, WB (Krantz, William B.); Fane, AG (Fane, Anthony G.); Hu, X (Hu, Xiao), Energy-efficient desalination by forward osmosis using responsive ionic liquid draw solutes, ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY Volume: 1 Issue: 3 Pages: 341-347 Published: 2015


8. Chong, TH (Chong, Tzyy Haur) ; Loo, SL (Loo, Siew-Leng) ; Fane, AG (Fane, Anthony G.); Krantz, WB (Krantz, William B.), Energy-efficient reverse osmosis desalination: Effect of retentate recycle and pump and energy recovery device efficiencies, DESALINATION, Volume: 366, Pages: 15-31, Special Issue: SI, DOI: 10.1016/j.desal.2015.01.017, Published: JUN 15 2015


11. Fane, AG (Fane, Anthony G.); Wang, R (Wang, Rong); Hu, MX (Hu, Matthew X.), ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, Synthetic Membranes for Water Purification: Status and Future, Volume: 54, Issue: 11, Pages: 3368-3386, Special Issue: SI, DOI: 10.1002/anie.201409783, Published: MAR 9 2015

12. F. Zamani (Farhad Zamani), J.W. Chew (Jia Wei Chew), E. Akhondi (Ebrahim Akhondi), W.B. Krantz (W.B. Krantz), A.G. Fane (AG Fane), Unsteady-state shear strategies to enhance mass-transfer for the implementation of ultrapermeable membranes in reverse osmosis: A review, Desalination, 356 (2015) 328-348 Published: JAN 15 2015.

13. Fang, W. (Fang, Wangxi); Liu, C. (Liu, Chang); Shi, L. (Shi, Lei); Wang, R (Wang, Rong), Composite forward osmosis hollow fiber membranes: Integration of RO-and NF-like selective layers for enhanced organic fouling resistance. JOURNAL OF MEMBRANE SCIENCE, Volume: 492, Pages 147-155, DOI: http://dx.doi.org/10.1016/j.memsci.2015.05.045, Published: 15 October 2015.

14. Gao, YB (Gao, Yiben); Haavisto, S (Haavisto, Sanna); Li, WY (Li, Weiyi); Tang, CYY (Tang, Chuyang Y.); Salmela, J (Salmela, Juha); Fane, AG (Fane, Anthony G.), Novel Approach To Characterizing the Growth of a Fouling Layer during Membrane Filtration via Optical Coherence Tomography, ENVIRONMENTAL SCIENCE & TECHNOLOGY, Volume: 48, Issue: 24, Pages: 14273-14281, DOI: 10.1021/es503326y, Published: DEC 16 2014

15. Goh, KL (Goh, Kunli), Setiawan, L (Setiawan, Laurentia), Wei, L (Wei, Li), Si, RM (Si, Rongmei), Fane, AG (Fane, Anthony G.), Wang, R (Wang, Rong), Chen, Y (Chen, Yuan), Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process , JOURNAL OF MEMBRANE SCIENCE , Volume: 474, Pages: 244-253, DOI: 10.1016/j.memsci.2014.09.057, Published: JAN 15 2015.

16. Goh, K (Goh, Kunli); Jiang, WC (Jiang, Wenchao); Karahan, HE (Karahan, Huseyin Enis); Zhai, SL (Zhai, Shengli); Wei, L (Wei, Li); Yu, DS (Yu, Dingshan); Fane, AG (Fane, Anthony G.); Wang, R (Wang, Rong); Chen, Y (Chen, Yuan), All-Carbon Nanoarchitectures as High-Performance Separation Membranes with Superior Stability
17. Goh, SW (Goh, Shuwen); Zhang, JS (Zhang, Jinsong); Liu, Y (Liu, Yu); Fane, AG (Fane, Anthony G.), Membrane Distillation Bioreactor (MDBR) - A lower Green-House-Gas (GHG) option for industrial wastewater reclamation, CHEMOSPHERE, Volume: 140, Pages: 129-142, Special Issue: SI, DOI: 10.1016/j.chemosphere.2014.09.003, Published: DEC 2015

18. Guan, GQ (Guan, Guoqiang); Yang, X (Yang, Xing); Wang, R (Wang, Rong); Fane, AG (Fane, Anthony G.), Evaluation of heat utilization in membrane distillation desalination system integrated with heat recovery, DESALINATION, Volume: 366, Pages: 80-93, Special Issue: SI, DOI: 10.1016/j.desal.2015.01.013, Published: JUN 5 2015.


23. Li, XS (Li, Xuesong); Chou, SR (Chou, Shuren); Wang, R (Wang, Rong); Shi, L (Shi, Lei); Fang, WX (Fang, Wangxi); Chaitra, G (Chaitra, G.); Tang, CYY (Tang, Chuyang Y.); Torres, J (Torres, Jaume); Hu, X (Hu, Xiao); Fane, AG (Fane, Anthony G.). Nature gives the best solution for desalination: Aquaporin-based hollow fiber composite membrane with superior performance, JOURNAL OF MEMBRANE SCIENCE, Volume: 494, Pages: 68-77, DOI: 10.1016/j.memsci.2015.07.040, Published: NOV 5 2015.


25. Loo, S.-L.; Krantz, W.B.; Fane, A.G.; Gao, Y.; Lim, T.-T.; Hu X., Bactericidal mechanisms revealed for rapid water disinfection by superabsorbent cryogels


27. Luo, JX (Luo, Jinxue); Zhang, JS (Zhang, Jinsong); Barnes, RJ (Barnes, Robert J.); Tan, XH (Tan, Xiaohui); McDougald, D (McDougald, Diane); Fane, AG (Fane, Anthony G.); Zhuang, GQ (Zhuang, Guoqiang); Kjelleberg, S (Kjelleberg, Staffan); Cohen, Y (Cohen, Yehuda); Rice, SA (Rice, Scott A.), The application of nitric oxide to control biofouling of membrane bioreactors, Microbial Biotechnology, Volume: 8, Issue: 3, Pages: 549-560, DOI: 10.1111/1751-7915.12261, Published: MAY 2015.

28. Luo, JX (Luo, Jinxue); Zhang, JS (Zhang, Jinsong); Tan, XH (Tan, Xiaohui); McDougald, D (McDougald, Diane); Zhuang, GQ (Zhuang, Guoqiang); Fane, AG (Fane, Anthony G.); Kjelleberg, S (Kjelleberg, Staffan); Cohen, Y (Cohen, Yehuda); Rice, SA (Rice, Scott A.), Characterization of the archaeal community fouling a membrane bioreactor, JOURNAL OF ENVIRONMENTAL SCIENCES-CHINA, Volume: 29, Pages: 115-123, DOI: 10.1016/j.jes.2014.07.025, Published: MAR 1 2015.


34. Siddiqui MF, Miles R, Harvey Winters, Zularisam AW, Anthony G. Fane, Quorum Sensing Based Membrane Biofouling Control for Water Treatment: A Review. Journal of water process Engineering Volume 7, September 01, 2015, Pages 112-122.


36. Sim, STV (Sim, S. T. V.); Krantz, WB (Krantz, W. B.); Chong, TH (Chong, T. H.); Fane, AG (Fane, A. G.), Online monitor for the reverse osmosis spiral wound module - Development of the canary cell, DESALINATION, Volume: 368, Pages: 48-59, Special Issue: SI, DOI: 10.1016/j.desal.2015.04.014, Published: JUL 15 2015.

37. Sirkar, KK (Sirkar, Kamalesh K.); Fane, AG (Fane, Anthony G.); Wang, R (Wang, Rong); Wickramasinghe, SR (Wickramasinghe, S. Ranil), Process intensification with selected membrane processes, CHEMICAL ENGINEERING AND PROCESSING, Volume: 87, Pages: 16-25, DOI: 10.1016/j.cep.2014.10.018, Published: JAN 2015.

38. Taheri, AH (Taheri, A. H.); Sim, LN (Sim, L. N.); Chong, TH (Chong, T. H.); Krantz, WB (Krantz, W. B.); Fane, AG (Fane, A. G.), Prediction of reverse osmosis fouling using the feed fouling monitor and salt tracer response technique, JOURNAL OF MEMBRANE SCIENCE, Volume: 475, Pages: 433-444, DOI: 10.1016/j.memsci.2014.10.043, Published: FEB 1 2015.

39. Tang, CY (Tang, Chuyang); Wang, ZN (Wang, Zhining); Petrinic, I (Petrinic, Irena); Fane, AG (Fane, Anthony G.); Helix-Nielsen, C (Helix-Nielsen, Claus), Biomimetic aquaporin membranes coming of age, DESALINATION, Volume: 368, Pages: 89-105, Special Issue: SI, DOI: 10.1016/j.desal.2015.05.026, Published: AUG 17 2015.

40. Tian, Miao (Tian, M.) ; Wang, Rong (Wang, R.) ; Goh, Kunli (Goh, K.); Liao, Yuan (Liao, Y.); Fane, Anthony G. (Fane, A.G.), Synthesis and characterization of high-performance novel thin film nanocomposite PRO membranes with tiered nanofiber support reinforced by functionalized carbon nanotubes, JOURNAL OF MEMBRANE SCIENCE, Volume: 486 Pages: 151-160, DOI: 10.1016/j.memsci.2015.03.054, Published: July 15 2015.

41. Tian, Miao (Tian, M.) ; Wang, Yi-Ning (Wang, Y-N); Wang, Rong (Wang, R.), Synthesis and characterization of novel high-performance thin film nanocomposite (TFN) FO membranes with nanofibrous substrate reinforced by functionalized carbon nanotubes, Desalination, Volume: 370 Pages: 79-86, DOI:10.1016/j.desal.2015.05.016, Published: AUG 17 2015.

43. Ye Li, Rong Wang, Saren Qi, Chuyang Tang; Structural stability and mass transfer properties of pressure retarded osmosis (PRO) membrane under High operating pressures; Journal of Membrane Science (Impact Factor: 4.91). 04/2015; 488. DOI: 10.1016/j.memsci.2015.04.030; Volume 488, August 05, 2015, Pages 143-153


48. Zhang, Q (Zhang, Q.); Shuwen, G (Shuwen, G.); Zhang, J (Zhang, J.); Fane, AG (Fane, A. G.) ; Kjelleberg, S (Kjelleberg, S.); Rice, SA (Rice, S. A.) ; McDougald, D (McDougald, D.), Analysis of microbial community composition in a lab-scale membrane distillation bioreactor, JOURNAL OF APPLIED MICROBIOLOGY, Volume: 118, Issue: 4, Pages: 940-953, DOI: 10.1111/jam.12759, Published: APR 2015.

Books/Chapters


Provisional Patent:


Conference/Invited


9. Low, J.H., In situ Nitric Oxide treatment to control biofouling in membrane-based water treatment process, oral presentation, Euromembrane 2015 - Aachen, Germany, September 2015


11. Meng-Yi Jin, Chunj Heng Loh, Yuan Liao, Rong Wang, Shuwen Goh, Jia Ling Bibianna Yeo, Anthony G. Fane. “High flux aqueous-aqueous extractive membranes based on electrospun nanofibrous PVDF scaffolds and PDMS coating for removal of
