

Anthony G Fane

List of Publications by Year in descending order

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75
papers

6,146
citations

57758

44
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79698

73
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docs citations

78
times ranked

5942
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. <i>Progress in Polymer Science</i> , 2018, 77, 69-94.	24.7	582
2	Characterization of novel forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010, 355, 158-167.	8.2	502
3	Membrane-based separation for oily wastewater: A practical perspective. <i>Water Research</i> , 2019, 156, 347-365.	11.3	378
4	The potential to enhance membrane module design with 3D printing technology. <i>Journal of Membrane Science</i> , 2016, 499, 480-490.	8.2	238
5	Impacts of salinity on the performance of high retention membrane bioreactors for water reclamation: A review. <i>Water Research</i> , 2010, 44, 21-40.	11.3	231
6	Performance improvement of PVDF hollow fiber-based membrane distillation process. <i>Journal of Membrane Science</i> , 2011, 369, 437-447.	8.2	216
7	Star-polymer synthesis via radical reversible addition-fragmentation chain-transfer polymerization. <i>Journal of Polymer Science Part A</i> , 2001, 39, 2777-2783.	2.3	205
8	Emergency water supply: A review of potential technologies and selection criteria. <i>Water Research</i> , 2012, 46, 3125-3151.	11.3	204
9	Honeycomb structured porous films prepared from carbohydrate based polymers synthesized via the RAFT process. <i>Journal of Materials Chemistry</i> , 2003, 13, 2090.	6.7	200
10	Behavior of oil droplets at the membrane surface during crossflow microfiltration of oil/water emulsions. <i>Journal of Membrane Science</i> , 2016, 500, 211-224.	8.2	181
11	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020, 479, 114312.	8.2	177
12	Gravity-driven membrane filtration as pretreatment for seawater reverse osmosis: Linking biofouling layer morphology with flux stabilization. <i>Water Research</i> , 2015, 70, 158-173.	11.3	129
13	Superabsorbent Cryogels Decorated with Silver Nanoparticles as a Novel Water Technology for Point-of-Use Disinfection. <i>Environmental Science & Technology</i> , 2013, 47, 9363-9371.	10.0	113
14	Fibre movement induced by bubbling using submerged hollow fibre membranes. <i>Journal of Membrane Science</i> , 2006, 271, 186-195.	8.2	108
15	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. <i>Desalination and Water Treatment</i> , 2013, 51, 3604-3627.	1.0	104
16	Unsteady-state shear strategies to enhance mass-transfer for the implementation of ultrapermeable membranes in reverse osmosis: A review. <i>Desalination</i> , 2015, 356, 328-348.	8.2	90
17	Modeling double-skinned FO membranes. <i>Desalination</i> , 2011, 283, 178-186.	8.2	85
18	Effect of viscosity on concentration polarization in ultrafiltration. <i>AIChE Journal</i> , 1988, 34, 1563-1567.	3.6	84

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19	Ultrafiltration of saline oil-in-water emulsions stabilized by an anionic surfactant: Effect of surfactant concentration and divalent counterions. <i>Journal of Membrane Science</i> , 2017, 537, 384-395.	8.2	79
20	Optimization of gravity-driven membrane (GDM) filtration process for seawater pretreatment. <i>Water Research</i> , 2016, 93, 133-140.	11.3	78
21	Bactericidal Mechanisms Revealed for Rapid Water Disinfection by Superabsorbent Cryogels Decorated with Silver Nanoparticles. <i>Environmental Science & Technology</i> , 2015, 49, 2310-2318.	10.0	77
22	Quorum quenching bacteria can be used to inhibit the biofouling of reverse osmosis membranes. <i>Water Research</i> , 2017, 112, 29-37.	11.3	77
23	Operation of Membrane Bioreactor with Powdered Activated Carbon Addition. <i>Separation Science and Technology</i> , 2006, 41, 1447-1466.	2.5	74
24	Fabrication and characterization of forward osmosis hollow fiber membranes with antifouling NF-like selective layer. <i>Journal of Membrane Science</i> , 2012, 394-395, 80-88.	8.2	74
25	The roles of bacteriophages in membrane-based water and wastewater treatment processes: A review. <i>Water Research</i> , 2017, 110, 120-132.	11.3	73
26	Effect of cross-flow velocity, oil concentration and salinity on the critical flux of an oil-in-water emulsion in microfiltration. <i>Journal of Membrane Science</i> , 2017, 530, 11-19.	8.2	72
27	Life Cycle Assessment for desalination: A review on methodology feasibility and reliability. <i>Water Research</i> , 2014, 61, 210-223.	11.3	70
28	3D printing by selective laser sintering of polypropylene feed channel spacers for spiral wound membrane modules for the water industry. <i>Virtual and Physical Prototyping</i> , 2016, 11, 151-158.	10.4	68
29	Modified BET models for modeling water vapor sorption in hydrophilic glassy polymers and systems deviating strongly from ideality. <i>Journal of Applied Polymer Science</i> , 1998, 67, 1415-1430.	2.6	63
30	Improved performance of gravity-driven membrane filtration for seawater pretreatment: Implications of membrane module configuration. <i>Water Research</i> , 2017, 114, 59-68.	11.3	62
31	Heat transfer intensification and scaling mitigation in bubbling-enhanced membrane distillation for brine concentration. <i>Journal of Membrane Science</i> , 2014, 470, 60-69.	8.2	59
32	Process intensification with selected membrane processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 87, 16-25.	3.6	57
33	Optimization of membrane bioreactors by the addition of powdered activated carbon. <i>Bioresource Technology</i> , 2013, 138, 38-47.	9.6	56
34	Effect of Pharmaceuticals on the Performance of a Novel Osmotic Membrane Bioreactor (OMBR). <i>Separation Science and Technology</i> , 2012, 47, 543-554.	2.5	55
35	The roles of particles in enhancing membrane filtration: A review. <i>Journal of Membrane Science</i> , 2020, 595, 117570.	8.2	55
36	Single-stage versus two-stage anaerobic fluidized bed bioreactors in treating municipal wastewater: Performance, foulant characteristics, and microbial community. <i>Chemosphere</i> , 2017, 171, 158-167.	8.2	54

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37	Strategic Co-Location in a Hybrid Process Involving Desalination and Pressure Retarded Osmosis (PRO). <i>Membranes</i> , 2013, 3, 98-125.	3.0	53
38	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. <i>Journal of Membrane Science</i> , 2016, 504, 75-88.	8.2	53
39	Analyzing external and internal membrane fouling by oil emulsions via 3D optical coherence tomography. <i>Journal of Membrane Science</i> , 2018, 548, 632-640.	8.2	53
40	Design and synthesis of ice-templated PSA cryogels for water purification: towards tailored morphology and properties. <i>Soft Matter</i> , 2013, 9, 224-234.	2.7	51
41	Environmental life cycle assessment of brackish water reverse osmosis desalination for different electricity production models. <i>Energy and Environmental Science</i> , 2011, 4, 2267.	30.8	50
42	Membrane Distillation Bioreactor (MDBR) – A lower Green-House-Gas (GHG) option for industrial wastewater reclamation. <i>Chemosphere</i> , 2015, 140, 129-142.	8.2	48
43	The Performance and Fouling Control of Submerged Hollow Fiber (HF) Systems: A Review. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 765.	2.5	47
44	Effects of spacer orientations on the cake formation during membrane fouling: Quantitative analysis based on 3D OCT imaging. <i>Water Research</i> , 2017, 110, 1-14.	11.3	45
45	Surface modification of nanofiltration membranes to improve the removal of organic micropollutants: Linking membrane characteristics to solute transmission. <i>Water Research</i> , 2021, 203, 117520.	11.3	40
46	Fabrication of poly(amide-imide)-polyethersulfone dual layer hollow fiber membranes applied in forward osmosis by combined polyelectrolyte cross-linking and depositions. <i>Desalination</i> , 2013, 312, 99-106.	8.2	38
47	Filtration of biomass with laboratory-scale submerged hollow fibre modules - effect of operating conditions and module configuration. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 1030-1038.	3.2	37
48	The potential roles of granular activated carbon in anaerobic fluidized membrane bioreactors: effect on membrane fouling and membrane integrity. <i>Desalination and Water Treatment</i> , 2015, 53, 1450-1459.	1.0	37
49	Characteristics of microfiltration of suspensions with inter-fiber two-phase flow. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 533-540.	3.2	35
50	Effect of spacer and crossflow velocity on the critical flux of bidisperse suspensions in microfiltration. <i>Journal of Membrane Science</i> , 2016, 513, 101-107.	8.2	35
51	Carboxylated Nanodiamond-Enhanced Photocatalytic Membranes with Improved Antifouling and Self-Cleaning Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3538-3549.	3.7	34
52	Enhanced performance of submerged hollow fibre microfiltration by fluidized granular activated carbon. <i>Journal of Membrane Science</i> , 2016, 499, 47-55.	8.2	33
53	Novel MBRs for the removal of organic priority pollutants from industrial wastewaters: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1949-1967.	3.2	32
54	Mechanisms of Fouling Control in Membrane Bioreactors by the Addition of Powdered Activated Carbon. <i>Separation Science and Technology</i> , 2010, 45, 873-889.	2.5	31

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55	Mitigation of membrane particulate fouling by nano/microplastics via physical cleaning strategies. <i>Science of the Total Environment</i> , 2021, 788, 147689.	8.0	31
56	Assessment of Trace Estrogenic Contaminants Removal by Coagulant Addition, Powdered Activated Carbon Adsorption and Powdered Activated Carbon/Microfiltration Processes. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 736-742.	1.4	30
57	Fouling control of submerged hollow fibre membrane bioreactor with transverse vibration. <i>Journal of Membrane Science</i> , 2016, 505, 216-224.	8.2	30
58	Membrane bioreactor with bubble-size transformer: Design and fouling control. <i>AIChE Journal</i> , 2007, 53, 243-248.	3.6	27
59	Effect of fluidized granular activated carbon (GAC) on critical flux in the microfiltration of particulate foulants. <i>Journal of Membrane Science</i> , 2017, 523, 409-417.	8.2	26
60	A comprehensive review of electrospray technique for membrane development: Current status, challenges, and opportunities. <i>Journal of Membrane Science</i> , 2022, 646, 120248.	8.2	26
61	Observation of flow characteristics in a hollow fiber lumen using non-invasive X-ray microimaging (XMI). <i>Journal of Membrane Science</i> , 2007, 304, 181-189.	8.2	22
62	Effect of bubble characteristics on critical flux in the microfiltration of particulate foulants. <i>Journal of Membrane Science</i> , 2017, 535, 279-293.	8.2	22
63	Influence of module orientation and geometry in the membrane distillation of oily seawater. <i>Desalination</i> , 2017, 423, 111-123.	8.2	20
64	Hybrid PAC-submerged membrane system for trace organics removal. <i>Chemical Engineering Journal</i> , 2009, 155, 155-160.	12.7	17
65	Potential evaluation and perspectives on using sponge-like superabsorbent cryogels for onsite water treatment in emergencies. <i>Desalination and Water Treatment</i> , 2015, 53, 1506-1515.	1.0	16
66	Controlling biofilm development in the extractive membrane bioreactor. <i>Separation Science and Technology</i> , 2017, 52, 113-121.	2.5	16
67	Analysis of Salt Accumulation in a Forward Osmosis System. <i>Separation Science and Technology</i> , 2012, 47, 1837-1848.	2.5	14
68	The use of Constant Temperature Anemometry for permeate flow distribution measurement in a submerged hollow fibre system. <i>Journal of Membrane Science</i> , 2009, 339, 195-203.	8.2	12
69	Flux-Dependent Fouling Phenomena in Membrane Bioreactors under Different Food to Microorganisms (F/M) Ratios. <i>Separation Science and Technology</i> , 2013, 48, 840-848.	2.5	9
70	Impact of solution chemistry on the properties and bactericidal activity of silver nanoparticles decorated on superabsorbent cryogels. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 104-113.	9.4	8
71	Effects of crossflow filtration cell configuration on membrane separation performance and fouling behaviour. <i>Desalination</i> , 2022, 525, 115505.	8.2	7
72	Osmotically enhanced reverse osmosis using hollow fiber membranes. <i>Journal of Membrane Science</i> , 2021, 638, 119703.	8.2	6

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73	Fouling reduction in MBR-RO processes: the effect of MBR F/M ratio. Desalination and Water Treatment, 2013, 51, 4829-4838.	1.0	5
74	Studies of Air Slug Distributions and Preliminary Membrane Fouling by Optical Monitoring in a Side-Stream Membrane Module. Separation Science and Technology, 2009, 44, 3793-3813.	2.5	0
75	Simulation of Countercurrent Operation of Two-Stage Hybrid PAC-Submerged Membrane System for Trace Organics Removal. Journal of Environmental Engineering, ASCE, 2012, 138, 625-631.	1.4	0