Jianhua Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

69	3,511	147566	138251
papers	citations	31 h-index	58 g-index

69	69	69	2932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in Membrane Distillation for Water Desalination and Purification Applications. Water (Switzerland), 2013, 5, 94-196.	1.2	601
2	Composites of Polymer Hydrogels and Nanoparticulate Systems for Biomedical and Pharmaceutical Applications. Nanomaterials, 2015, 5, 2054-2130.	1.9	297
3	Identification of material and physical features of membrane distillation membranes for high performance desalination. Journal of Membrane Science, 2010, 349, 295-303.	4.1	242
4	Direct contact membrane distillation (DCMD): Experimental study on the commercial PTFE membrane and modeling. Journal of Membrane Science, 2011, 371, 90-98.	4.1	192
5	Pilot trial of membrane distillation driven by low grade waste heat: Membrane fouling and energy assessment. Desalination, 2016, 391, 30-42.	4.0	185
6	Performance of asymmetric hollow fibre membranes in membrane distillation under various configurations and vacuum enhancement. Journal of Membrane Science, 2010, 362, 517-528.	4.1	89
7	Demonstration of membrane distillation on textile waste water: assessment of long term performance, membrane cleaning and waste heat integration. Environmental Science: Water Research and Technology, 2017, 3, 433-449.	1.2	89
8	Nanofiltration membranes with dually charged composite layer exhibiting super-high multivalent-salt rejection. Journal of Membrane Science, 2016, 517, 64-72.	4.1	84
9	Modelling heat and mass transfers in DCMD using compressible membranes. Journal of Membrane Science, 2012, 387-388, 7-16.	4.1	83
10	3D Bioprinting of Human Tissues: Biofabrication, Bioinks, and Bioreactors. International Journal of Molecular Sciences, 2021, 22, 3971.	1.8	83
11	Effect of applied pressure on performance of PTFE membrane in DCMD. Journal of Membrane Science, 2011, 369, 514-525.	4.1	79
12	Modelling of vacuum membrane distillation. Journal of Membrane Science, 2013, 434, 1-9.	4.1	69
13	Aluminum fumarate MOF/PVDF hollow fiber membrane for enhancement of water flux and thermal efficiency in direct contact membrane distillation. Journal of Membrane Science, 2019, 588, 117204.	4.1	64
14	Condensation studies in membrane evaporation and sweeping gas membrane distillation. Journal of Membrane Science, 2014, 462, 9-16.	4.1	62
15	Preparation of super-hydrophobic PVDF membrane for MD purpose via hydroxyl induced crystallization-phase inversion. Journal of Membrane Science, 2017, 543, 288-300.	4.1	62
16	Sustainable waste water deammonification by vacuum membrane distillation without pH adjustment: Role of water chemistry. Chemical Engineering Journal, 2017, 328, 884-893.	6.6	53
17	Influence of pre-treatment combinations on RO membrane fouling. Desalination, 2016, 393, 120-126.	4.0	50
18	A Review on Current Development of Membranes for Oil Removal from Wastewaters. Membranes, 2020, 10, 65.	1.4	50

#	Article	IF	Citations
19	Experimental study of hollow fiber permeate gap membrane distillation and its performance comparison with DCMD and SGMD. Separation and Purification Technology, 2017, 188, 11-23.	3.9	47
20	A Pervaporation Study of Ammonia Solutions Using Molecular Sieve Silica Membranes. Membranes, 2014, 4, 40-54.	1.4	42
21	Research Progress of Polyvinyl Alcohol Water-Resistant Film Materials. Membranes, 2022, 12, 347.	1.4	41
22	Condensation, re-evaporation and associated heat transfer in membrane evaporation and sweeping gas membrane distillation. Journal of Membrane Science, 2015, 475, 445-454.	4.1	39
23	Study on the heat and mass transfer in air-bubbling enhanced vacuum membrane distillation. Desalination, 2015, 373, 16-26.	4.0	38
24	Synergistic effect of combined colloidal and organic fouling in membrane distillation: Measurements and mechanisms. Environmental Science: Water Research and Technology, 2017, 3, 119-127.	1.2	37
25	Comparison of colloidal silica involved fouling behavior in three membrane distillation configurations using PTFE membrane. Water Research, 2018, 130, 343-352.	5.3	37
26	Membrane Distillation Trial on Textile Wastewater Containing Surfactants Using Hydrophobic and Hydrophilic-Coated Polytetrafluoroethylene (PTFE) Membranes. Membranes, 2018, 8, 31.	1.4	37
27	Comparative study of PFAS treatment by UV, UV/ozone, and fractionations with air and ozonated air. Environmental Science: Water Research and Technology, 2019, 5, 1897-1907.	1.2	37
28	Modelling mass and heat transfers of Permeate Gap Membrane Distillation using hollow fibre membrane. Desalination, 2019, 467, 196-209.	4.0	36
29	Antiwettability and Performance Stability of a Composite Hydrophobic/Hydrophilic Dual-Layer Membrane in Wastewater Treatment by Membrane Distillation. Industrial & Engineering Chemistry Research, 2018, 57, 9313-9322.	1.8	33
30	Influence of PGMD module design on the water productivity and energy efficiency in desalination. Desalination, 2019, 452, 29-39.	4.0	33
31	Enhanced desalination performance of aluminium fumarate MOF-incorporated electrospun nanofiber membrane with bead-on-string structure for membrane distillation. Desalination, 2021, 520, 115338.	4.0	33
32	Review of Transport Phenomena and Popular Modelling Approaches in Membrane Distillation. Membranes, 2021, 11, 122.	1.4	31
33	Predicting the influence of operating conditions on DCMD flux and thermal efficiency for incompressible and compressible membrane systems. Desalination, 2013, 323, 142-149.	4.0	30
34	De-ammonification using direct contact membrane distillation â€“ An experimental and simulation study. Separation and Purification Technology, 2020, 250, 117158.	3.9	29
35	A review of process and wastewater reuse in the recycled paper industry. Environmental Technology and Innovation, 2021, 24, 101860.	3.0	29
36	Dual-layer membranes with a thin film hydrophilic MOF/PVA nanocomposite for enhanced antiwetting property in membrane distillation. Desalination, 2021, 518, 115268.	4.0	29

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37	Study of MOF incorporated dual layer membrane with enhanced removal of ammonia and per-/poly-fluoroalkyl substances (PFAS) in landfill leachate treatment. Science of the Total Environment, 2022, 806, 151207.	3.9	29
38	Study of Hybrid PVA/MA/TEOS Pervaporation Membrane and Evaluation of Energy Requirement for Desalination by Pervaporation. International Journal of Environmental Research and Public Health, 2018, 15, 1913.	1.2	25
39	Modeling of heat and mass transfer in vacuum membrane distillation for ammonia separation. Separation and Purification Technology, 2019, 224, 121-131.	3.9	23
40	Diffusion behavior of humic acid during desalination with air gap andÂwater gap membrane distillation. Water Research, 2019, 158, 182-192.	5.3	23
41	Wastewater recycling in Antarctica: Performance assessment of an advanced water treatment plant in removing trace organic chemicals. Journal of Environmental Management, 2018, 224, 122-129.	3.8	21
42	Pervaporation of ammonia solution with Î³-alumina supported organosilica membranes. Separation and Purification Technology, 2016, 168, 141-151.	3.9	20
43	Modeling and multi-objective optimization of vacuum membrane distillation for enhancement of water productivity and thermal efficiency in desalination. Chemical Engineering Research and Design, 2018, 132, 697-713.	2.7	19
44	Theoretical guidance for fabricating higher flux hydrophobic/hydrophilic dual-layer membranes for direct contact membrane distillation. Journal of Membrane Science, 2020, 596, 117608.	4.1	19
45	Remediation of poly-and perfluoroalkyl substances (PFAS) contaminated soil using gas fractionation enhanced technology. Science of the Total Environment, 2022, 827, 154310.	3.9	19
46	Evaluation of direct contact membrane distillation coupled with fractionation and ozonation for the treatment of textile effluent. Journal of Water Process Engineering, 2021, 40, 101789.	2.6	17
47	Life cycle assessment for algae-based desalination system. Desalination, 2021, 512, 115148.	4.0	16
48	Effects of dissolution conditions on the properties of PVDF ultrafiltration membranes. Ultrasonics Sonochemistry, 2017, 39, 716-726.	3.8	16
49	Influence of module design and membrane compressibility on VMD performance. Journal of Membrane Science, 2013, 442, 31-38.	4.1	15
50	A new integrated potable reuse process for a small remote community in Antarctica. Chemical Engineering Research and Design, 2016, 104, 196-208.	2.7	15
51	Assessment of pressure decay test for RO protozoa removal validation in remote operations. Desalination, 2016, 386, 19-24.	4.0	15
52	Removal of herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA) from saline industrial wastewater by reverse osmosis and nanofiltration. Desalination, 2020, 496, 114691.	4.0	15
53	A Mini Review on Antiwetting Studies in Membrane Distillation for Textile Wastewater Treatment. Processes, 2021, 9, 243.	1.3	15
54	PFAS removal from wastewater by in-situ formed ferric nanoparticles: Solid phase loading and removal efficiency. Journal of Environmental Chemical Engineering, 2021, 9, 105452.	3.3	15

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55	Depletion of VOC in wastewater by vacuum membrane distillation using a dual-layer membrane: mechanism of mass transfer and selectivity. Environmental Science: Water Research and Technology, 2019, 5, 119-130.	1.2	13
56	Simulation and multi-objective optimization of heat and mass transfer in direct contact membrane distillation by response surface methodology integrated modeling. Chemical Engineering Research and Design, 2020, 159, 565-581.	2.7	13
57	State-of-the-Art and Opportunities for Forward Osmosis in Sewage Concentration and Wastewater Treatment. Membranes, 2021, 11, 305.	1.4	13
58	Enhancement of COD Removal from Oilfield Produced Wastewater by Combination of Advanced Oxidation, Adsorption and Ultrafiltration. International Journal of Environmental Research and Public Health, 2019, 16, 3223.	1.2	12
59	Performance of new generation membrane distillation membranes. Water Science and Technology: Water Supply, 2009, 9, 501-508.	1.0	9
60	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. Water (Switzerland), 2017, 9, 94.	1.2	9
61	A critical control point approach to the removal of chemicals of concern from water for reuse. Water Research, 2019, 160, 39-51.	5.3	8
62	Fouling behavior of calcium phosphate in direct contact membrane distillation. Environmental Technology and Innovation, 2021, 21, 101203.	3.0	7
63	Researching and modelling the dependence of MD flux on membrane dimension for scale-up purpose. Desalination and Water Treatment, 2011, 31, 144-150.	1.0	5
64	Recycled paper mill process water pre-treatment using ultrafiltration for water system closure. Journal of Water Process Engineering, 2021, 44, 102407.	2.6	5
65	Production of polyhydroxyalkanoate nanoparticles using a green solvent. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
66	Substrate-Independent, Regenerable Anti-Biofouling Coating for Polymeric Membranes. Membranes, 2021, 11, 205.	1.4	2
67	Performance modelling of direct contact membrane distillation using a hydrophobic/hydrophilic dual-layer membrane. Journal of Water Reuse and Desalination, 2021, 11, 490-507.	1.2	2
68	Achievements in membrane distillation processes for wastewater and water treatment. , 2020, , 221-238.		1
69	Transport phenomena in membrane distillation processes. , 2022, , 111-128.		0