

Jianhua Zhang

List of Publications by Year in descending order

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69
papers

3,511
citations

147566

31
h-index

138251

58
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docs citations

69
times ranked

2932
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of MOF incorporated dual layer membrane with enhanced removal of ammonia and per/poly-fluoroalkyl substances (PFAS) in landfill leachate treatment. <i>Science of the Total Environment</i> , 2022, 806, 151207.	3.9	29
2	Transport phenomena in membrane distillation processes. , 2022, , 111-128.		0
3	Research Progress of Polyvinyl Alcohol Water-Resistant Film Materials. <i>Membranes</i> , 2022, 12, 347.	1.4	41
4	Production of polyhydroxyalkanoate nanoparticles using a green solvent. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	3
5	Remediation of poly-and perfluoroalkyl substances (PFAS) contaminated soil using gas fractionation enhanced technology. <i>Science of the Total Environment</i> , 2022, 827, 154310.	3.9	19
6	Evaluation of direct contact membrane distillation coupled with fractionation and ozonation for the treatment of textile effluent. <i>Journal of Water Process Engineering</i> , 2021, 40, 101789.	2.6	17
7	Fouling behavior of calcium phosphate in direct contact membrane distillation. <i>Environmental Technology and Innovation</i> , 2021, 21, 101203.	3.0	7
8	A Mini Review on Antiwetting Studies in Membrane Distillation for Textile Wastewater Treatment. <i>Processes</i> , 2021, 9, 243.	1.3	15
9	Review of Transport Phenomena and Popular Modelling Approaches in Membrane Distillation. <i>Membranes</i> , 2021, 11, 122.	1.4	31
10	Substrate-Independent, Regenerable Anti-Biofouling Coating for Polymeric Membranes. <i>Membranes</i> , 2021, 11, 205.	1.4	2
11	3D Bioprinting of Human Tissues: Biofabrication, Bioinks, and Bioreactors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3971.	1.8	83
12	State-of-the-Art and Opportunities for Forward Osmosis in Sewage Concentration and Wastewater Treatment. <i>Membranes</i> , 2021, 11, 305.	1.4	13
13	Performance modelling of direct contact membrane distillation using a hydrophobic/hydrophilic dual-layer membrane. <i>Journal of Water Reuse and Desalination</i> , 2021, 11, 490-507.	1.2	2
14	PFAS removal from wastewater by in-situ formed ferric nanoparticles: Solid phase loading and removal efficiency. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105452.	3.3	15
15	Life cycle assessment for algae-based desalination system. <i>Desalination</i> , 2021, 512, 115148.	4.0	16
16	A review of process and wastewater reuse in the recycled paper industry. <i>Environmental Technology and Innovation</i> , 2021, 24, 101860.	3.0	29
17	Dual-layer membranes with a thin film hydrophilic MOF/PVA nanocomposite for enhanced antiwetting property in membrane distillation. <i>Desalination</i> , 2021, 518, 115268.	4.0	29
18	Enhanced desalination performance of aluminium fumarate MOF-incorporated electrospun nanofiber membrane with bead-on-string structure for membrane distillation. <i>Desalination</i> , 2021, 520, 115338.	4.0	33

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19	Recycled paper mill process water pre-treatment using ultrafiltration for water system closure. <i>Journal of Water Process Engineering</i> , 2021, 44, 102407.	2.6	5
20	Theoretical guidance for fabricating higher flux hydrophobic/hydrophilic dual-layer membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020, 596, 117608.	4.1	19
21	Removal of herbicide 2-methyl-4-chlorophenoxyacetic acid (MCPA) from saline industrial wastewater by reverse osmosis and nanofiltration. <i>Desalination</i> , 2020, 496, 114691.	4.0	15
22	Achievements in membrane distillation processes for wastewater and water treatment. , 2020, , 221-238.		1
23	Simulation and multi-objective optimization of heat and mass transfer in direct contact membrane distillation by response surface methodology integrated modeling. <i>Chemical Engineering Research and Design</i> , 2020, 159, 565-581.	2.7	13
24	De-ammonification using direct contact membrane distillation “ An experimental and simulation study. <i>Separation and Purification Technology</i> , 2020, 250, 117158.	3.9	29
25	A Review on Current Development of Membranes for Oil Removal from Wastewaters. <i>Membranes</i> , 2020, 10, 65.	1.4	50
26	Modelling mass and heat transfers of Permeate Gap Membrane Distillation using hollow fibre membrane. <i>Desalination</i> , 2019, 467, 196-209.	4.0	36
27	Depletion of VOC in wastewater by vacuum membrane distillation using a dual-layer membrane: mechanism of mass transfer and selectivity. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 119-130.	1.2	13
28	Enhancement of COD Removal from Oilfield Produced Wastewater by Combination of Advanced Oxidation, Adsorption and Ultrafiltration. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3223.	1.2	12
29	A critical control point approach to the removal of chemicals of concern from water for reuse. <i>Water Research</i> , 2019, 160, 39-51.	5.3	8
30	Aluminum fumarate MOF/PVDF hollow fiber membrane for enhancement of water flux and thermal efficiency in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2019, 588, 117204.	4.1	64
31	Modeling of heat and mass transfer in vacuum membrane distillation for ammonia separation. <i>Separation and Purification Technology</i> , 2019, 224, 121-131.	3.9	23
32	Diffusion behavior of humic acid during desalination with air gap and water gap membrane distillation. <i>Water Research</i> , 2019, 158, 182-192.	5.3	23
33	Comparative study of PFAS treatment by UV, UV/ozone, and fractionations with air and ozonated air. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1897-1907.	1.2	37
34	Influence of PGMD module design on the water productivity and energy efficiency in desalination. <i>Desalination</i> , 2019, 452, 29-39.	4.0	33
35	Modeling and multi-objective optimization of vacuum membrane distillation for enhancement of water productivity and thermal efficiency in desalination. <i>Chemical Engineering Research and Design</i> , 2018, 132, 697-713.	2.7	19
36	Comparison of colloidal silica involved fouling behavior in three membrane distillation configurations using PTFE membrane. <i>Water Research</i> , 2018, 130, 343-352.	5.3	37

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37	Study of Hybrid PVA/MA/TEOS Pervaporation Membrane and Evaluation of Energy Requirement for Desalination by Pervaporation. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 1913.	1.2	25
38	Antiwettability and Performance Stability of a Composite Hydrophobic/Hydrophilic Dual-Layer Membrane in Wastewater Treatment by Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9313-9322.	1.8	33
39	Wastewater recycling in Antarctica: Performance assessment of an advanced water treatment plant in removing trace organic chemicals. <i>Journal of Environmental Management</i> , 2018, 224, 122-129.	3.8	21
40	Membrane Distillation Trial on Textile Wastewater Containing Surfactants Using Hydrophobic and Hydrophilic-Coated Polytetrafluoroethylene (PTFE) Membranes. <i>Membranes</i> , 2018, 8, 31.	1.4	37
41	Demonstration of membrane distillation on textile waste water: assessment of long term performance, membrane cleaning and waste heat integration. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 433-449.	1.2	89
42	Sustainable waste water deammonification by vacuum membrane distillation without pH adjustment: Role of water chemistry. <i>Chemical Engineering Journal</i> , 2017, 328, 884-893.	6.6	53
43	Experimental study of hollow fiber permeate gap membrane distillation and its performance comparison with DCMD and SGMD. <i>Separation and Purification Technology</i> , 2017, 188, 11-23.	3.9	47
44	Synergistic effect of combined colloidal and organic fouling in membrane distillation: Measurements and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 119-127.	1.2	37
45	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. <i>Water (Switzerland)</i> , 2017, 9, 94.	1.2	9
46	Preparation of super-hydrophobic PVDF membrane for MD purpose via hydroxyl induced crystallization-phase inversion. <i>Journal of Membrane Science</i> , 2017, 543, 288-300.	4.1	62
47	Effects of dissolution conditions on the properties of PVDF ultrafiltration membranes. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 716-726.	3.8	16
48	Nanofiltration membranes with dually charged composite layer exhibiting super-high multivalent-salt rejection. <i>Journal of Membrane Science</i> , 2016, 517, 64-72.	4.1	84
49	A new integrated potable reuse process for a small remote community in Antarctica. <i>Chemical Engineering Research and Design</i> , 2016, 104, 196-208.	2.7	15
50	Pervaporation of ammonia solution with γ -alumina supported organosilica membranes. <i>Separation and Purification Technology</i> , 2016, 168, 141-151.	3.9	20
51	Assessment of pressure decay test for RO protozoa removal validation in remote operations. <i>Desalination</i> , 2016, 386, 19-24.	4.0	15
52	Pilot trial of membrane distillation driven by low grade waste heat: Membrane fouling and energy assessment. <i>Desalination</i> , 2016, 391, 30-42.	4.0	185
53	Influence of pre-treatment combinations on RO membrane fouling. <i>Desalination</i> , 2016, 393, 120-126.	4.0	50
54	Composites of Polymer Hydrogels and Nanoparticulate Systems for Biomedical and Pharmaceutical Applications. <i>Nanomaterials</i> , 2015, 5, 2054-2130.	1.9	297

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55	Study on the heat and mass transfer in air-bubbling enhanced vacuum membrane distillation. <i>Desalination</i> , 2015, 373, 16-26.	4.0	38
56	Condensation, re-evaporation and associated heat transfer in membrane evaporation and sweeping gas membrane distillation. <i>Journal of Membrane Science</i> , 2015, 475, 445-454.	4.1	39
57	A Pervaporation Study of Ammonia Solutions Using Molecular Sieve Silica Membranes. <i>Membranes</i> , 2014, 4, 40-54.	1.4	42
58	Condensation studies in membrane evaporation and sweeping gas membrane distillation. <i>Journal of Membrane Science</i> , 2014, 462, 9-16.	4.1	62
59	Influence of module design and membrane compressibility on VMD performance. <i>Journal of Membrane Science</i> , 2013, 442, 31-38.	4.1	15
60	Advances in Membrane Distillation for Water Desalination and Purification Applications. <i>Water (Switzerland)</i> , 2013, 5, 94-196.	1.2	601
61	Modelling of vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2013, 434, 1-9.	4.1	69
62	Predicting the influence of operating conditions on DCMD flux and thermal efficiency for incompressible and compressible membrane systems. <i>Desalination</i> , 2013, 323, 142-149.	4.0	30
63	Modelling heat and mass transfers in DCMD using compressible membranes. <i>Journal of Membrane Science</i> , 2012, 387-388, 7-16.	4.1	83
64	Researching and modelling the dependence of MD flux on membrane dimension for scale-up purpose. <i>Desalination and Water Treatment</i> , 2011, 31, 144-150.	1.0	5
65	Effect of applied pressure on performance of PTFE membrane in DCMD. <i>Journal of Membrane Science</i> , 2011, 369, 514-525.	4.1	79
66	Direct contact membrane distillation (DCMD): Experimental study on the commercial PTFE membrane and modeling. <i>Journal of Membrane Science</i> , 2011, 371, 90-98.	4.1	192
67	Identification of material and physical features of membrane distillation membranes for high performance desalination. <i>Journal of Membrane Science</i> , 2010, 349, 295-303.	4.1	242
68	Performance of asymmetric hollow fibre membranes in membrane distillation under various configurations and vacuum enhancement. <i>Journal of Membrane Science</i> , 2010, 362, 517-528.	4.1	89
69	Performance of new generation membrane distillation membranes. <i>Water Science and Technology: Water Supply</i> , 2009, 9, 501-508.	1.0	9