

Marek Gryta

List of Publications by Year in descending order

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91
papers

4,228
citations

159525

30
h-index

114418

63
g-index

91
all docs

91
docs citations

91
times ranked

2474
citing authors

#	ARTICLE	IF	CITATIONS
1	Fouling in direct contact membrane distillation process. Journal of Membrane Science, 2008, 325, 383-394.	4.1	379
2	Influence of polypropylene membrane surface porosity on the performance of membrane distillation process. Journal of Membrane Science, 2007, 287, 67-78.	4.1	251
3	Hydrophobic PVDF hollow fiber membranes with narrow pore size distribution and ultra-thin skin for the fresh water production through membrane distillation. Chemical Engineering Science, 2008, 63, 2587-2594.	1.9	250
4	Heat transport in the membrane distillation process. Journal of Membrane Science, 1998, 144, 211-222.	4.1	201
5	Membrane distillation of NaCl solution containing natural organic matter. Journal of Membrane Science, 2001, 181, 279-287.	4.1	168
6	Wastewater treatment by membrane distillation. Desalination, 2006, 198, 67-73.	4.0	163
7	Purification of oily wastewater by hybrid UF/MD. Water Research, 2001, 35, 3665-3669.	5.3	158
8	Study on the concentration of acids by membrane distillation. Journal of Membrane Science, 1995, 102, 113-122.	4.1	144
9	CONCENTRATION OF NaCl SOLUTION BY MEMBRANE DISTILLATION INTEGRATED WITH CRYSTALLIZATION. Separation Science and Technology, 2002, 37, 3535-3558.	1.3	130
10	Influence of morphology of PVDF capillary membranes on the performance of direct contact membrane distillation. Journal of Membrane Science, 2010, 358, 158-167.	4.1	119
11	Membrane cleaning and pretreatments in membrane distillation – a review. Chemical Engineering Journal, 2021, 422, 129696.	6.6	108
12	Alkaline scaling in the membrane distillation process. Desalination, 2008, 228, 128-134.	4.0	105
13	Water demineralisation by NF/MD integrated processes. Desalination, 2005, 177, 109-119.	4.0	104
14	Ethanol production in membrane distillation bioreactor. Catalysis Today, 2000, 56, 159-165.	2.2	97
15	The assessment of microorganism growth in the membrane distillation system. Desalination, 2002, 142, 79-88.	4.0	96
16	Osmotic MD and other membrane distillation variants. Journal of Membrane Science, 2005, 246, 145-156.	4.1	96
17	Calcium sulphate scaling in membrane distillation process. Chemical Papers, 2009, 63, .	1.0	88
18	Polyphosphates used for membrane scaling inhibition during water desalination by membrane distillation. Desalination, 2012, 285, 170-176.	4.0	81

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19	Mass transfer of HCl and H ₂ O across the hydrophobic membrane during membrane distillation. <i>Journal of Membrane Science</i> , 2000, 166, 149-157.	4.1	79
20	Effectiveness of Water Desalination by Membrane Distillation Process. <i>Membranes</i> , 2012, 2, 415-429.	1.4	79
21	Membrane processes used for potable water quality improvement. <i>Desalination</i> , 2002, 145, 315-319.	4.0	75
22	The influence of magnetic water treatment on CaCO ₃ scale formation in membrane distillation process. <i>Separation and Purification Technology</i> , 2011, 80, 293-299.	3.9	71
23	Effect of iron oxides scaling on the MD process performance. <i>Desalination</i> , 2007, 216, 88-102.	4.0	69
24	Desalination of thermally softened water by membrane distillation process. <i>Desalination</i> , 2010, 257, 30-35.	4.0	67
25	The fermentation process integrated with membrane distillation. <i>Separation and Purification Technology</i> , 2001, 24, 283-296.	3.9	65
26	Application of ultrafiltration ceramic membrane for separation of oily wastewater generated by maritime transportation. <i>Separation and Purification Technology</i> , 2021, 261, 118259.	3.9	53
27	Concentration of saline wastewater from the production of heparin. <i>Desalination</i> , 2000, 129, 35-44.	4.0	45
28	The study of membrane distillation used for separation of fermenting glycerol solutions. <i>Journal of Membrane Science</i> , 2013, 431, 1-8.	4.1	39
29	Capillary Polypropylene Membranes for Membrane Distillation. <i>Fibers</i> , 2019, 7, 1.	1.8	38
30	The study of performance of polyethylene chlorinetrifluoroethylene membranes used for brine desalination by membrane distillation. <i>Desalination</i> , 2016, 398, 52-63.	4.0	35
31	Water Purification by Membrane Distillation Process. <i>Separation Science and Technology</i> , 2006, 41, 1789-1798.	1.3	33
32	Wettability of polypropylene capillary membranes during the membrane distillation process. <i>Chemical Papers</i> , 2012, 66, .	1.0	30
33	The ultrafiltration ceramic membrane used for broth separation in membrane bioreactor. <i>Chemical Engineering Journal</i> , 2016, 305, 129-135.	6.6	29
34	The concentration of geothermal brines with iodine content by membrane distillation. <i>Desalination</i> , 2013, 325, 16-24.	4.0	27
35	Surface modification of polypropylene membrane by helium plasma treatment for membrane distillation. <i>Journal of Membrane Science</i> , 2021, 628, 119265.	4.1	27
36	Treatment of effluents from the regeneration of ion exchangers using the MD process. <i>Desalination</i> , 2005, 180, 173-180.	4.0	26

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37	Ethanol production in a bioreactor with an integrated membrane distillation module. Chemical Papers, 2012, 66, .	1.0	25
38	Separation of saline oily wastewater by membrane distillation. Chemical Papers, 2020, 74, 2277-2286.	1.0	24
39	Application of polypropylene membranes hydrophilized by plasma for water desalination by membrane distillation. Desalination, 2021, 515, 115187.	4.0	24
40	Application of membrane distillation process for tap water purification. Membrane Water Treatment, 2010, 1, 1-12.	0.5	22
41	Fouling of nanofiltration membranes used for separation of fermented glycerol solutions. Chemical Papers, 2014, 68, .	1.0	21
42	Scaling diminution by heterogeneous crystallization in a filtration element integrated with membrane distillation module. Polish Journal of Chemical Technology, 2009, 11, 60-65.	0.3	20
43	Comparison of Polypropylene and Ceramic Microfiltration Membranes Applied for Separation of 1,3-PD Fermentation Broths and Saccharomyces cerevisiae Yeast Suspensions. Membranes, 2021, 11, 44.	1.4	19
44	Chemical pretreatment of feed water for membrane distillation. Chemical Papers, 2008, 62, .	1.0	18
45	Separation of volatile compounds from fermentation broth by membrane distillation. Polish Journal of Chemical Technology, 2011, 13, 56-60.	0.3	18
46	Evaluation of fouling potential of nanofiltration membranes based on the dynamic contact angle measurements. Polish Journal of Chemical Technology, 2012, 14, 97-104.	0.3	18
47	Water desalination using membrane distillation with acidic stabilization of scaling layer thickness. Desalination, 2015, 365, 160-166.	4.0	18
48	The application of ultrafiltration for separation of glycerol solution fermented by bacteria. Polish Journal of Chemical Technology, 2013, 15, 115-120.	0.3	16
49	The application of polypropylene membranes for production of fresh water from brines by membrane distillation. Chemical Papers, 2017, 71, 775-784.	1.0	16
50	A study of separation by the direct-contact membrane distillation process. Separation and Purification Technology, 1994, 4, 244-248.	0.7	15
51	The application of ultrafiltration for treatment of ships generated oily wastewater. Chemical Papers, 2017, 71, 1165-1173.	1.0	15
52	The Application of Submerged Modules for Membrane Distillation. Membranes, 2020, 10, 25.	1.4	15
53	The long-term studies of osmotic membrane distillation. Chemical Papers, 2018, 72, 99-107.	1.0	14
54	Clarification of 1,3-Propanediol Fermentation Broths by Using a Ceramic Fine UF Membrane. Membranes, 2020, 10, 319.	1.4	14

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55	Bilge water separation by membrane distillation. Separation and Purification Technology, 2020, 237, 116332.	3.9	13
56	Cross-Flow Microfiltration of Glycerol Fermentation Broths with <i>Citrobacter freundii</i> . Membranes, 2020, 10, 67.	1.4	13
57	Pilot plant studies on the removal of trihalomethanes by composite reverse osmosis membranes. Desalination, 2001, 140, 227-234.	4.0	12
58	Microfiltration of post-fermentation broth with backflushing membrane cleaning. Chemical Papers, 2015, 69, .	1.0	12
59	Resistance of Polypropylene Membrane to Oil Fouling during Membrane Distillation. Membranes, 2021, 11, 552.	1.4	12
60	Separation of post-fermentation glycerol solution by nanofiltration membrane distillation system. Desalination and Water Treatment, 2015, 53, 319-329.	1.0	11
61	Application of nanofiltration for production of 1,3-propanediol in membrane bioreactor. Catalysis Today, 2016, 268, 164-170.	2.2	11
62	Studies of membrane scaling during water desalination by membrane distillation. Chemical Papers, 2019, 73, 591-600.	1.0	11
63	Mitigation of Membrane Wetting by Applying a Low Temperature Membrane Distillation. Membranes, 2020, 10, 158.	1.4	11
64	A new submerged photocatalytic membrane reactor based on membrane distillation for ketoprofen removal from various aqueous matrices. Chemical Engineering Journal, 2022, 435, 134872.	6.6	11
65	Membrane processes used for separation of effluents from wire productions. Chemical Papers, 2009, 63, .	1.0	9
66	Degradation of Polypropylene Membranes Applied in Membrane Distillation Crystallizer. Crystals, 2016, 6, 33.	1.0	9
67	Stability of Ar/O ₂ Plasma-Treated Polypropylene Membranes Applied for Membrane Distillation. Membranes, 2021, 11, 531.	1.4	9
68	Energy-Efficient AnMBRs Technology for Treatment of Wastewaters: A Review. Energies, 2022, 15, 4981.	1.6	9
69	Effect of flow-rate on ethanol separation in membrane distillation process. Chemical Papers, 2013, 67, .	1.0	8
70	The study of glycerol-based fermentation and broth downstream by nanofiltration. Polish Journal of Chemical Technology, 2014, 16, 117-122.	0.3	8
71	Study of NaCl permeability through a non-porous polypropylene film. Journal of Membrane Science, 2016, 504, 66-74.	4.1	8
72	Application of vacuum membrane distillation for concentration of organic solutions. Chemical Papers, 2016, 70, .	1.0	8

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73	Application of Capillary Polypropylene Membranes for Microfiltration of Oily Wastewaters: Experiments and Modeling. <i>Fibers</i> , 2021, 9, 35.	1.8	8
74	The Use of NaOH Solutions for Fouling Control in a Membrane Bioreactor: A Feasibility Study. <i>Membranes</i> , 2021, 11, 887.	1.4	8
75	Water Desalination by Membrane Distillation. , 0, , .		7
76	The Influence of Talc Addition on the Performance of Polypropylene Membranes Formed by TIPS Method. <i>Membranes</i> , 2019, 9, 63.	1.4	7
77	Environmental fracture of polypropylene membranes used in membrane distillation process. <i>Polimery</i> , 2008, 53, 865-870.	0.4	7
78	Membrane Distillation of Saline Water Contaminated with Oil and Surfactants. <i>Membranes</i> , 2021, 11, 988.	1.4	7
79	Separation of effluents from regeneration of a cation exchanger by membrane distillation. <i>Desalination</i> , 2006, 197, 50-62.	4.0	6
80	Demineralization of water using a combination of MD and NF(RO). <i>Desalination</i> , 2006, 200, 451-452.	4.0	6
81	Treatment of effluents from a membrane bioreactor by nanofiltration using tubular membranes. <i>Chemical Papers</i> , 2013, 67, .	1.0	6
82	The effect of unfavourable process conditions on the water desalination by membrane distillation. , 2018, 128, 1-10.		5
83	The Impact of Operational Parameters on Polypropylene Membrane Performance during the Separation of Oily Saline Wastewaters by the Membrane Distillation Process. <i>Membranes</i> , 2022, 12, 351.	1.4	5
84	Studies of polypropylene membrane fouling during microfiltration of broth with <i>Citrobacter freundii</i> bacteria. <i>Polish Journal of Chemical Technology</i> , 2015, 17, 56-64.	0.3	4
85	Investigations of a membrane distillation pilot plant with a capillary module. , 0, 64, 279-286.		3
86	Concentration of FeSO ₄ spent solutions by membrane distillation. <i>Polish Journal of Chemical Technology</i> , 2007, 9, 15-18.	0.3	2
87	Influence of inorganic fillers on the degradation of polypropylene membranes during membrane distillation. , 0, 214, 16-30.		2
88	Osmotic membrane distillation with continuous regeneration of stripping solution by natural evaporation. <i>Membrane Water Treatment</i> , 2013, 4, 223-236.	0.5	1
89	Water Demineralization by Membrane Distillation Utilizing Cooling Water From Municipal Waste Incinerator. <i>Polish Journal of Chemical Technology</i> , 2018, 20, 65-74.	0.3	1
90	The Application of Open Capillary Modules for Sweeping Gas Membrane Distillation. <i>Energies</i> , 2022, 15, 1454.	1.6	1

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91	Desalination of Industrial Effluents Using Integrated Membrane Processes. , 2012, , .		0