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**Simplified flux prediction in direct-contact membrane distillation using a membrane structural parameter**

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**Desalination, 2014, 351, 151-162.**

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#	Paper	IF	Citations
32	Factors contributing to flux improvement in vacuum-enhanced direct contact membrane distillation. <i>Desalination</i> , <b>2015</b> , 367, 197-205	10.3	33
31	Principles and applications of direct contact membrane distillation (DCMD): A comprehensive review. <i>Desalination</i> , <b>2016</b> , 398, 222-246	10.3	206
30	How To Optimize the Membrane Properties for Membrane Distillation: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 9333-9343	3.9	150
29	Feasibility study of flowback/produced water treatment using direct-contact membrane distillation. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 21314-21327		10
28	Ionic liquid and water separation by membrane distillation. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 557-561	15.7	38
27	Influence of membrane thickness and process conditions on direct contact membrane distillation at different salinities. <i>Journal of Membrane Science</i> , <b>2016</b> , 498, 353-364	9.6	108
26	A stepwise model of direct contact membrane distillation for application to large-scale systems: Experimental results and model predictions. <i>Desalination</i> , <b>2016</b> , 378, 14-27	10.3	37
25	Membrane synthesis for membrane distillation: A review. <i>Separation and Purification Technology</i> , <b>2017</b> , 182, 36-51	8.3	220
24	Selecting membranes for treating hydraulic fracturing produced waters by membrane distillation. <i>Separation Science and Technology</i> , <b>2017</b> , 52, 266-275	2.5	18
23	Laminated PTFE membranes to enhance the performance in direct contact membrane distillation for high salinity solution. <i>Desalination</i> , <b>2017</b> , 424, 140-148	10.3	28
22	Effect of long-term operation on membrane surface characteristics and performance in membrane distillation. <i>Journal of Membrane Science</i> , <b>2017</b> , 543, 143-150	9.6	56
21	Challenges and opportunities at the nexus of energy, water, and food: A perspective from the southwest United States. <i>MRS Energy &amp; Sustainability</i> , <b>2018</b> , 5, 1	2.2	7
20	Wetting phenomena in membrane distillation: Mechanisms, reversal, and prevention. <i>Water Research</i> , <b>2018</b> , 139, 329-352	12.5	299
19	Novel thermal efficiency-based model for determination of thermal conductivity of membrane distillation membranes. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 298-308	9.6	31
18	Evaluation of semi-volatile contaminant transport in a novel, gas-tight direct contact membrane distillation system. <i>Desalination</i> , <b>2018</b> , 427, 35-41	10.3	15
17	Membrane distillation driven by intermittent and variable-temperature waste heat: System arrangements for water production and heat storage. <i>Desalination</i> , <b>2018</b> , 448, 49-59	10.3	25
16	Evaluating the potential of superhydrophobic nanoporous alumina membranes for direct contact membrane distillation. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 533, 723-732	9.3	42

15	Membrane distillation coupled with a novel two-stage pretreatment process for petrochemical wastewater treatment and reuse. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 23-32	8.3	27
14	Investigation on the Performance of a Compact Three-Fluid Combined Membrane Contactor for Dehumidification in Electric Vehicles. <i>Energies</i> , <b>2019</b> , 12, 1660	3.1	0
13	Modeling of Air-Gap Membrane Distillation and Comparative Study with Direct Contact Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 21930-21947	3.9	8
12	Hydrophobicity versus Pore Size: Polymer Coatings to Improve Membrane Wetting Resistance for Membrane Distillation. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 1256-1267	4.3	23
11	Tannic acid induced membrane surface modification to increase efficiency of direct contact membrane distillation for desalination of the bioreactor effluent of a bioplastic-producing haloarchaeal bioprocess. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 1404-1408	1.4	1
10	Flat sheet direct contact membrane distillation desalination system using temperature-dependent correlations: thermal efficiency via a multi-parameter sensitivity analysis based on Monte Carlo method. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 2641	4.1	6
9	Development of a self-sustained model to predict the performance of direct contact membrane distillation. <i>Separation and Purification Technology</i> , <b>2021</b> , 263, 118407	8.3	5
8	A comparison between average and local thermal evaluations to improve the performance of a direct contact membrane distillation for the solar desalination purposes. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	
7	Nutrient recovery of the hydrothermal carbonization aqueous product from dairy manure using membrane distillation. <i>Environmental Technology (United Kingdom)</i> , <b>2021</b> , 1-10	2.6	0
6	Wetting indicators, modes, and trade-offs in membrane distillation. <i>Journal of Membrane Science</i> , <b>2022</b> , 642, 119947	9.6	0
5	Scale-up of membrane distillation systems using bench-scale data. <i>Desalination</i> , <b>2022</b> , 530, 115654	10.3	1
4	Membrane Distillation-Crystallization for inland desalination brine treatment. <i>Separation and Purification Technology</i> , <b>2022</b> , 290, 120788	8.3	3
3	Flat sheet direct contact membrane distillation study to decrease the energy demand for solar desalination purposes. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102100	4.7	4
2	Superhydrophobic composite asymmetric electrospun membrane for sustainable vacuum assisted air gap membrane distillation. <b>2023</b> , 553, 116411		0
1	New hybrid concentrated photovoltaic/membrane distillation unit for simultaneous freshwater and electricity production. <b>2023</b> , 116630		0