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Deep desalination of water by evaporation through polymeric membranes

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#	Paper	IF	Citations
34	Sol-gel derived poly(vinyl alcohol)/maleic acid/silica hybrid membrane for desalination by pervaporation. <i>Journal of Membrane Science</i> , 2011 , 383, 96-103	9.6	105
33	Separation of aqueous salt solution by pervaporation through hybrid organic/inorganic membrane: Effect of operating conditions. <i>Desalination</i> , 2011 , 273, 220-225	10.3	82
32	Effect of heat treatment on pervaporation separation of aqueous salt solution using hybrid PVA/MA/TEOS membrane. <i>Separation and Purification Technology</i> , 2014 , 127, 10-17	8.3	44
31	High performance hydrophilic pervaporation composite membranes for water desalination. <i>Desalination</i> , 2014 , 347, 199-206	10.3	80
30	Emerging desalination technologies for water treatment: a critical review. <i>Water Research</i> , 2015 , 75, 164-87	12.5	515
29	Preparation of ultra-thin poly(vinyl alcohol) membranes supported on polysulfone hollow fiber and their application for production of pure water from seawater. <i>Desalination</i> , 2015 , 367, 272-284	10.3	46
28	Cetyltrimethylammonium bromide/silica membrane for seawater desalination through pervaporation. <i>Bulletin of Materials Science</i> , 2015 , 38, 565-572	1.7	16
27	Desalination of simulated seawater by purge-air pervaporation using an innovative fabricated membrane. <i>Water Science and Technology</i> , 2015 , 72, 785-93	2.2	30
26	Preparation, characterization and performance of sulfonated poly(styrene-ethylene/butylene-styrene) block copolymer membranes for water desalination by pervaporation. <i>Desalination</i> , 2016 , 390, 33-46	10.3	33
25	Effect of cell hydrodynamics in desalination of saline water by sweeping air pervaporation technique using innovated membrane. <i>Desalination and Water Treatment</i> , 2016 , 57, 23293-23307		6
24	Desalination by pervaporation: A review. <i>Desalination</i> , 2016 , 387, 46-60	10.3	163
23	Robust construction of a graphene oxide barrier layer on a nanofibrous substrate assisted by the flexible poly(vinylalcohol) for efficient pervaporation desalination. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3558-3568	13	57
22	Management and dewatering of brines extracted from geologic carbon storage sites. <i>International Journal of Greenhouse Gas Control</i> , 2017 , 63, 194-214	4.2	15
21	Polymeric Nanocomposite Membranes for Next Generation Pervaporation Process: Strategies, Challenges and Future Prospects. <i>Membranes</i> , 2017 , 7,	3.8	70
20	Complete desalination of seawater using a novel polyvinylidene fluoride/zeolite membrane. <i>Environmental Chemistry Letters</i> , 2018 , 16, 553-559	13.3	6
19	Chitosan/graphene oxide mixed matrix membrane with enhanced water permeability for high-salinity water desalination by pervaporation. <i>Desalination</i> , 2018 , 438, 83-96	10.3	81
18	Desalination by pervaporation. 2018 , 205-226		5

17	Synergistic High-flux Oil&Saltwater Separation and Membrane Desalination with Carbon Quantum Dots Functionalized Membrane. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13708-13716	8.3	30
16	Investigation of salt penetration mechanism in hydrolyzed polyacrylonitrile asymmetric membranes for pervaporation desalination. <i>Desalination</i> , 2019 , 463, 32-39	10.3	16
15	Structures, Properties, and Performances-Relationships of Polymeric Membranes for Pervaporative Desalination. <i>Membranes</i> , 2019 , 9,	3.8	10
14	Incorporation of Al ₂ O ₃ into cellulose triacetate membranes to enhance the performance of pervaporation for desalination of hypersaline solutions. <i>Desalination</i> , 2020 , 474, 114198	10.3	33
13	Nanocomposite pervaporation membrane for desalination. <i>Chemical Engineering Research and Design</i> , 2020 , 164, 147-161	5.5	14
12	Organo-silica membrane for brine water pervaporation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 473, 012129	0.3	1
11	Functionalized Carbon Nanotube-Mediated Transport in Membranes Containing Fixed-Site Carriers for Fast Pervaporation Desalination. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 50918-50928	9.5	5
10	Dimensional Nanofillers in Mixed Matrix Membranes for Pervaporation Separations: A Review. <i>Membranes</i> , 2020 , 10,	3.8	9
9	Produced Water Desalination via Pervaporative Distillation. <i>Water (Switzerland)</i> , 2020 , 12, 3560	3	5
8	Fabrication, Properties, Performances, and Separation Application of Polymeric Pervaporation Membranes: A Review. <i>Polymers</i> , 2020 , 12,	4.5	19
7	Effect of solvent on the morphology and performance of cellulose triacetate membrane/cellulose nanocrystal nanocomposite pervaporation desalination membranes. <i>Chemical Engineering Journal</i> , 2020 , 388, 124216	14.7	28
6	Hydrophobic polydimethylsiloxane thin-film composite membranes for the efficient pervaporative desalination of seawater and brines. <i>Separation and Purification Technology</i> , 2021 , 280, 119819	8.3	1
5	Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future. <i>Desalination</i> , 2021 , 520, 115359	10.3	28
4	High-performance sulfosuccinic acid cross-linked PVA composite pervaporation membrane for desalination. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 312-320	2.6	18
3	Evaluation of Halloysite Nanotube-Loaded Chitosan-Based Nanocomposite Membranes for Water Desalination by Pervaporation. <i>Water, Air, and Soil Pollution</i> , 2022 , 233, 1	2.6	1
2	Development of high performance pervaporation desalination membranes: A brief review. <i>Chemical Engineering Research and Design</i> , 2022 , 159, 1092-1104	5.5	0
1	Experimental and economic investigation of sweeping gas membrane distillation/pervaporation modules using novel pilot scale device. 2023 , 310, 123165		0