

Forward and pressure retarded osmosis: potential solution for energy and water supply

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Smart draw agents for emerging forward osmosis application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14049.	5.2	72
3	Forward osmosis for application in wastewater treatment: A review. <i>Water Research</i> , 2014, 58, 179-197.	5.3	644
4	Zwitterions as alternative draw solutions in forward osmosis for application in wastewater reclamation. <i>Journal of Membrane Science</i> , 2014, 460, 82-90.	4.1	64
5	The sweet spot of forward osmosis: Treatment of produced water, drilling wastewater, and other complex and difficult liquid streams. <i>Desalination</i> , 2014, 333, 23-35.	4.0	324
6	Biomimetic membranes: A review. <i>Journal of Membrane Science</i> , 2014, 454, 359-381.	4.1	314
7	A Dendrimer-Based Forward Osmosis Draw Solute for Seawater Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16170-16175.	1.8	73
8	Rejection of Trace Organic Compounds by Forward Osmosis Membranes: A Literature Review. <i>Environmental Science & Technology</i> , 2014, 48, 3612-3624.	4.6	174
9	Layer-by-layer assembly of graphene oxide membranes via electrostatic interaction. <i>Journal of Membrane Science</i> , 2014, 469, 80-87.	4.1	296
10	Using modelling approach to validate a bench scale forward osmosis pre-treatment process for desalination. <i>Desalination</i> , 2014, 350, 1-13.	4.0	29
11	Removal of Trace Organic Chemicals and Performance of a Novel Hybrid Ultrafiltration-Osmotic Membrane Bioreactor. <i>Environmental Science & Technology</i> , 2014, 48, 10859-10868.	4.6	126
12	Membrane technology in microalgae cultivation and harvesting: A review. <i>Biotechnology Advances</i> , 2014, 32, 1283-1300.	6.0	255
13	Self-Supplied Ammonium Bicarbonate Draw Solute for Achieving Wastewater Treatment and Recovery in a Microbial Electrolysis Cell-Forward Osmosis-Coupled System. <i>Environmental Science and Technology Letters</i> , 2014, 1, 437-441.	3.9	90
14	Preparation, modification and characterization of polymeric hollow fiber membranes for pressure-retarded osmosis. <i>RSC Advances</i> , 2014, 4, 51430-51439.	1.7	37
15	Highly Permeable Double-Skinned Forward Osmosis Membranes for Anti-Fouling in the Emulsified Oil-Water Separation Process. <i>Environmental Science & Technology</i> , 2014, 48, 4537-4545.	4.6	144
16	Enhanced osmotic energy generation from salinity gradients by modifying thin film composite membranes. <i>Chemical Engineering Journal</i> , 2014, 242, 195-203.	6.6	122
17	Synthesis, characterization and surface modification of PES hollow fiber membrane support with polydopamine and thin film composite for energy generation. <i>Chemical Engineering Journal</i> , 2014, 243, 137-146.	6.6	113
18	Response to Osmotic Pressure versus Swelling Pressure: Comment on "Bifunctional Polymer Hydrogel Layers As Forward Osmosis Draw Agents for Continuous Production of Fresh Water Using Solar Energy". <i>Environmental Science & Technology</i> , 2014, 48, 4214-4215.	4.6	40
19	Limits of power production due to finite membrane area in pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2014, 468, 81-89.	4.1	59

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21	A new nanocomposite forward osmosis membrane custom-designed for treating shale gas wastewater. Scientific Reports, 2015, 5, 14530.	1.6	47
22	When Bioelectrochemical Systems Meet Forward Osmosis: Accomplishing Wastewater Treatment and Reuse through Synergy. Water (Switzerland), 2015, 7, 38-50.	1.2	45
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31	Indirect determination of zeta potential at high ionic strength: Specific application to semipermeable polymeric membranes. Journal of Membrane Science, 2015, 478, 58-64.	4.1	69
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37	Pressure enhanced fouling and adapted anti-fouling strategy in pressure assisted osmosis (PAO). Journal of Membrane Science, 2015, 493, 557-567.	4.1	32

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39	Progress in pressure retarded osmosis (PRO) membranes for osmotic power generation. <i>Progress in Polymer Science</i> , 2015, 51, 1-27.	11.8	171
40	pH Sensitivity of Ion Exchange through a Thin Film Composite Membrane in Forward Osmosis. <i>Environmental Science and Technology Letters</i> , 2015, 2, 177-182.	3.9	27
41	Thermodynamic analysis of energy density in pressure retarded osmosis: The impact of solution volumes and costs. <i>Journal of Membrane Science</i> , 2015, 487, 240-248.	4.1	27
42	Preparation of a forward osmosis membrane using a highly porous polyketone microfiltration membrane as a novel support. <i>Journal of Membrane Science</i> , 2015, 487, 51-59.	4.1	85
43	Energy-efficient desalination by forward osmosis using responsive ionic liquid draw solutes. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 341-347.	1.2	84
44	Molecular layer-by-layer assembled forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 488, 111-120.	4.1	67
45	Water flux in Pressure Retarded Osmosis. <i>Desalination</i> , 2015, 375, 21-23.	4.0	11
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54	Anchoring hydrophilic polymer in substrate: An easy approach for improving the performance of TFC FO membrane. <i>Journal of Membrane Science</i> , 2015, 476, 330-339.	4.1	72
55	Forward osmosis: Where are we now?. <i>Desalination</i> , 2015, 356, 271-284.	4.0	681

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