Qianhong She

List of Publications by Year
in descending order

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48 papers	4,662 citations	147566 31 h-index	205818 48 g-index
49 all docs	49 docs citations	49 times ranked	2863 citing authors

#	Article	IF	Citations
1	Coupled effects of internal concentration polarization and fouling on flux behavior of forward osmosis membranes during humic acid filtration. Journal of Membrane Science, 2010, 354, 123-133.	4.1	688
2	Membrane fouling in osmotically driven membrane processes: A review. Journal of Membrane Science, 2016, 499, 201-233.	4.1	625
3	Osmotic power production from salinity gradient resource by pressure retarded osmosis: Effects of operating conditions and reverse solute diffusion. Journal of Membrane Science, 2012, 401-402, 262-273.	4.1	308
4	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. Journal of Membrane Science, 2012, 389, 25-33.	4.1	299
5	Digitalization to achieve sustainable development goals: Steps towards a Smart Green Planet. Science of the Total Environment, 2021, 794, 148539.	3.9	284
6	Relating reverse and forward solute diffusion to membrane fouling in osmotically driven membrane processes. Water Research, 2012, 46, 2478-2486.	5.3	179
7	Effect of feed spacer induced membrane deformation on the performance of pressure retarded osmosis (PRO): Implications for PRO process operation. Journal of Membrane Science, 2013, 445, 170-182.	4.1	179
8	Organic fouling in pressure retarded osmosis: Experiments, mechanisms and implications. Journal of Membrane Science, 2013, 428, 181-189.	4.1	155
9	Removal of boron and arsenic by forward osmosis membrane: Influence of membrane orientation and organic fouling. Journal of Membrane Science, 2012, 389, 182-187.	4.1	152
10	Mining Nutrients (N, K, P) from Urban Source-Separated Urine by Forward Osmosis Dewatering. Environmental Science & Technology, 2014, 48, 3386-3394.	4.6	152
11	Gypsum scaling in pressure retarded osmosis: Experiments, mechanisms and implications. Water Research, 2014, 48, 387-395.	5.3	138
12	Boric Acid Permeation in Forward Osmosis Membrane Processes: Modeling, Experiments, and Implications. Environmental Science & Technology, 2011, 45, 2323-2330.	4.6	131
13	The role of hydrodynamic conditions and solution chemistry on protein fouling during ultrafiltration. Desalination, 2009, 249, 1079-1087.	4.0	102
14	Exploring the differences between forward osmosis and reverse osmosis fouling. Journal of Membrane Science, 2018, 565, 241-253.	4.1	96
15	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. Environment International, 2018, 121, 1039-1057.	4.8	94
16	Modeling double-skinned FO membranes. Desalination, 2011, 283, 178-186.	4.0	85
17	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. Water Research, 2017, 116, 116-125.	5.3	82
18	Metalâ€“organic framework-based porous matrix membranes for improving mass transfer in forward osmosis membranes. Journal of Membrane Science, 2015, 492, 392-399.	4.1	80

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19	Status and advances of deep eutectic solvents for metal separation and recovery. Green Chemistry, 2022, 24, 1895-1929.	4.6	79
20	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. Chemical Engineering Journal, 2018, 339, 153-161.	6.6	62
21	Microscopic Characterization of FO/PRO Membranes â€“ A Comparative Study of CLSM, TEM and SEM. Environmental Science & Technology, 2012, 46, 9995-10003.	4.6	54
22	Strategic Co-Location in a Hybrid Process Involving Desalination and Pressure Retarded Osmosis (PRO). Membranes, 2013, 3, 98-125.	1.4	53
23	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. Journal of Membrane Science, 2016, 504, 75-88.	4.1	53
24	Investigation of soluble microbial products in a full-scale UASB reactor running at low organic loading rate. Bioresource Technology, 2009, 100, 3471-3476.	4.8	51
25	Effect of reverse solute diffusion on scaling in forward osmosis: A new control strategy by tailoring draw solution chemistry. Desalination, 2017, 401, 230-237.	4.0	44
26	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. Water Research, 2017, 110, 332-341.	5.3	42
27	Osmotic membrane bioreactors assisted with microfiltration membrane for salinity control (MF-OMBR) operating at high sludge concentrations: Performance and implications. Chemical Engineering Journal, 2018, 337, 576-583.	6.6	38
28	Unique roles of aminosilane in developing anti-fouling thin film composite (TFC) membranes for pressure retarded osmosis (PRO). Desalination, 2016, 389, 119-128.	4.0	36
29	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. Journal of Membrane Science, 2017, 542, 233-244.	4.1	36
30	Module scale-up and performance evaluation of thin film composite hollow fiber membranes for pressure retarded osmosis. Journal of Membrane Science, 2018, 548, 398-407.	4.1	32
31	Effect of driving force on the performance of anaerobic osmotic membrane bioreactors: New insight into enhancing water flux of FO membrane via controlling driving force in a two-stage pattern. Journal of Membrane Science, 2019, 569, 41-47.	4.1	31
32	Ammonium ultra-selective membranes for wastewater treatment and nutrient enrichment: Interplay of surface charge and hydrophilicity on fouling propensity and ammonium rejection. Water Research, 2021, 190, 116678.	5.3	30
33	Pressure-retarded membrane distillation for simultaneous hypersaline brine desalination and low-grade heat harvesting. Journal of Membrane Science, 2020, 597, 117765.	4.1	29
34	Pressure-retarded membrane distillation for low-grade heat recovery: The critical roles of pressure-induced membrane deformation. Journal of Membrane Science, 2019, 579, 90-101.	4.1	27
35	Influence of membrane structure-dependent water transport on conductivity-permselectivity trade-off and salt/water selectivity in electrodialysis: Implications for osmotic electrodialysis using porous ion exchange membranes. Journal of Membrane Science, 2022, 650, 120398.	4.1	23
36	Forward osmosis concentration of a vanadium leaching solution. Journal of Membrane Science, 2019, 582, 164-171.	4.1	15

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37	Boron and salt ion transport in electrically assisted reverse osmosis. Journal of Membrane Science, 2021, 637, 119639.	4.1	13
38	How split-feed osmotically assisted reverse osmosis (SF-OARO) can outperform conventional reverse osmosis (CRO) processes under constant and varying electricity tariffs. Desalination, 2022, 530, 115670.	4.0	12
39	Mechanistic insights into the degradation of monovalent selective ion exchange membrane towards long-term application of real salt lake brines. Journal of Membrane Science, 2022, 652, 120446.	4.1	12
40	Membrane structure-dependent limiting flux behavior and membrane selectivity loss during gypsum scaling: Implications for pressure-retarded osmosis operation and membrane design. Desalination, 2020, 492, 114644.	4.0	10
41	Engineering pressure retarded osmosis membrane bioreactor (PRO-MBR) for simultaneous water and energy recovery from municipal wastewater. Science of the Total Environment, 2022, 826, 154048.	3.9	9
42	Insights into the Influence of Membrane Permeability and Structure on Osmotically-Driven Membrane Processes. Membranes, 2021, 11, 153.	1.4	8
43	Magnesium-Induced Variation of Polyamide Membrane Behavior for the Treatment of Haloacetic Acids in Swimming Pool Waters. ACS ES&T Water, 2021, 1, 346-355.	2.3	7
44	Exploring the Limitations of Osmotically Assisted Reverse Osmosis: Membrane Fouling and the Limiting Flux. Environmental Science & Technology, 2022, 56, 6678-6688.	4.6	7
45	A novel method for the accurate characterization of transport and structural parameters of deformable membranes utilized in pressure- and osmotically driven membrane processes. Journal of Membrane Science, 2021, 638, 119720.	4.1	6
46	Calcium phosphate scaling in osmotically driven membrane processes: Limiting flux behavior and its implications for scaling mitigation. Journal of Membrane Science, 2021, 631, 119351.	4.1	5
47	A multifunctional and low-energy electrochemical membrane system for chemical-free regulation of solution pH. Water Research, 2022, 216, 118330.	5.3	5
48	Reverse osmosis and forward osmosis fouling: a comparison. Discover Chemical Engineering, 2021, 1, 1.	1.1	4