

# Qianhong She

## List of Publications by Citations

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47  
papers

3,554  
citations

27  
h-index

49  
g-index

49  
ext. papers

4,086  
ext. citations

10.1  
avg, IF

5.65  
L-index

#	Paper	IF	Citations
47	Coupled effects of internal concentration polarization and fouling on flux behavior of forward osmosis membranes during humic acid filtration. <i>Journal of Membrane Science</i> , <b>2010</b> , 354, 123-133	9.6	613
46	Membrane fouling in osmotically driven membrane processes: A review. <i>Journal of Membrane Science</i> , <b>2016</b> , 499, 201-233	9.6	488
45	Osmotic power production from salinity gradient resource by pressure retarded osmosis: Effects of operating conditions and reverse solute diffusion. <i>Journal of Membrane Science</i> , <b>2012</b> , 401-402, 262-273	9.6	277
44	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. <i>Journal of Membrane Science</i> , <b>2012</b> , 389, 25-33	9.6	271
43	Effect of feed spacer induced membrane deformation on the performance of pressure retarded osmosis (PRO): Implications for PRO process operation. <i>Journal of Membrane Science</i> , <b>2013</b> , 445, 170-182	9.6	157
42	Relating reverse and forward solute diffusion to membrane fouling in osmotically driven membrane processes. <i>Water Research</i> , <b>2012</b> , 46, 2478-86	12.5	151
41	Organic fouling in pressure retarded osmosis: Experiments, mechanisms and implications. <i>Journal of Membrane Science</i> , <b>2013</b> , 428, 181-189	9.6	140
40	Removal of boron and arsenic by forward osmosis membrane: Influence of membrane orientation and organic fouling. <i>Journal of Membrane Science</i> , <b>2012</b> , 389, 182-187	9.6	130
39	Gypsum scaling in pressure retarded osmosis: experiments, mechanisms and implications. <i>Water Research</i> , <b>2014</b> , 48, 387-95	12.5	126
38	Mining nutrients (N, K, P) from urban source-separated urine by forward osmosis dewatering. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 3386-94	10.3	118
37	Boric acid permeation in forward osmosis membrane processes: modeling, experiments, and implications. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 2323-30	10.3	115
36	The role of hydrodynamic conditions and solution chemistry on protein fouling during ultrafiltration. <i>Desalination</i> , <b>2009</b> , 249, 1079-1087	10.3	87
35	Modeling double-skinned FO membranes. <i>Desalination</i> , <b>2011</b> , 283, 178-186	10.3	80
34	Exploring the differences between forward osmosis and reverse osmosis fouling. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 241-253	9.6	72
33	Metal-organic framework-based porous matrix membranes for improving mass transfer in forward osmosis membranes. <i>Journal of Membrane Science</i> , <b>2015</b> , 492, 392-399	9.6	62
32	Digitalization to achieve sustainable development goals: Steps towards a Smart Green Planet. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148539	10.2	58
31	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. <i>Water Research</i> , <b>2017</b> , 116, 116-125	12.5	54

30	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , <b>2018</b> , 121, 1039-1057	12.9	51
29	Microscopic characterization of FO/PRO membranes--a comparative study of CLSM, TEM and SEM. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9995-10003	10.3	50
28	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. <i>Journal of Membrane Science</i> , <b>2016</b> , 504, 75-88	9.6	47
27	Investigation of soluble microbial products in a full-scale UASB reactor running at low organic loading rate. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3471-6	11	47
26	Strategic Co-Location in a Hybrid Process Involving Desalination and Pressure Retarded Osmosis (PRO). <i>Membranes</i> , <b>2013</b> , 3, 98-125	3.8	44
25	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. <i>Chemical Engineering Journal</i> , <b>2018</b> , 339, 153-161	14.7	43
24	Effect of reverse solute diffusion on scaling in forward osmosis: A new control strategy by tailoring draw solution chemistry. <i>Desalination</i> , <b>2017</b> , 401, 230-237	10.3	34
23	Unique roles of aminosilane in developing anti-fouling thin film composite (TFC) membranes for pressure retarded osmosis (PRO). <i>Desalination</i> , <b>2016</b> , 389, 119-128	10.3	33
22	Osmotic membrane bioreactors assisted with microfiltration membrane for salinity control (MF-OMBR) operating at high sludge concentrations: Performance and implications. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 576-583	14.7	29
21	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. <i>Water Research</i> , <b>2017</b> , 110, 332-341	12.5	29
20	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. <i>Journal of Membrane Science</i> , <b>2017</b> , 542, 233-244	9.6	26
19	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. <i>Journal of Membrane Science</i> , <b>2019</b> , 569, 41-47	9.6	22
18	Module scale-up and performance evaluation of thin film composite hollow fiber membranes for pressure retarded osmosis. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 398-407	9.6	21
17	Pressure-retarded membrane distillation for low-grade heat recovery: The critical roles of pressure-induced membrane deformation. <i>Journal of Membrane Science</i> , <b>2019</b> , 579, 90-101	9.6	20
16	Pressure-retarded membrane distillation for simultaneous hypersaline brine desalination and low-grade heat harvesting. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117765	9.6	16
15	Ammonium ultra-selective membranes for wastewater treatment and nutrient enrichment: Interplay of surface charge and hydrophilicity on fouling propensity and ammonium rejection. <i>Water Research</i> , <b>2021</b> , 190, 116678	12.5	11
14	Forward osmosis concentration of a vanadium leaching solution. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 164-171	9.6	10
13	Status and advances of deep eutectic solvents for metal separation and recovery. <i>Green Chemistry</i> , <b>2022</b> , 24, 1895-1929	10	9

12	Boron and salt ion transport in electrically assisted reverse osmosis. <i>Journal of Membrane Science</i> , <b>2021</b> , 637, 119639	9.6	4
11	Membrane structure-dependent limiting flux behavior and membrane selectivity loss during gypsum scaling: Implications for pressure-retarded osmosis operation and membrane design. <i>Desalination</i> , <b>2020</b> , 492, 114644	10.3	3
10	Magnesium-Induced Variation of Polyamide Membrane Behavior for the Treatment of Haloacetic Acids in Swimming Pool Waters. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 346-355		1
9	Insights into the Influence of Membrane Permeability and Structure on Osmotically-Driven Membrane Processes. <i>Membranes</i> , <b>2021</b> , 11,	3.8	1
8	A novel method for the accurate characterization of transport and structural parameters of deformable membranes utilized in pressure- and osmotically driven membrane processes. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119720	9.6	1
7	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. <i>Journal of Membrane Science</i> , <b>2022</b> , 650, 120398	9.6	1
6	Mechanistic insights into the degradation of monovalent selective ion exchange membrane towards long-term application of real salt lake brines. <i>Journal of Membrane Science</i> , <b>2022</b> , 652, 120446	9.6	1
5	Reverse osmosis and forward osmosis fouling: a comparison. <i>Discover Chemical Engineering</i> , <b>2021</b> , 1, 1		1
4	Calcium phosphate scaling in osmotically driven membrane processes: Limiting flux behavior and its implications for scaling mitigation. <i>Journal of Membrane Science</i> , <b>2021</b> , 631, 119351	9.6	0
3	How split-feed osmotically assisted reverse osmosis (SF-OARO) can outperform conventional reverse osmosis (CRO) processes under constant and varying electricity tariffs. <i>Desalination</i> , <b>2022</b> , 530, 115670	10.3	0
2	Engineering pressure retarded osmosis membrane bioreactor (PRO-MBR) for simultaneous water and energy recovery from municipal wastewater.. <i>Science of the Total Environment</i> , <b>2022</b> , 154048	10.2	0
1	A multifunctional and low-energy electrochemical membrane system for chemical-free regulation of solution pH.. <i>Water Research</i> , <b>2022</b> , 216, 118330	12.5	