Qianhong She

List of Publications by Year in Descending Order

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	Status and advances of deep eutectic solvents for metal separation and recovery. *Green Chemistry*, **2022**, 24, 1895-1929	10	9
46	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	10.3	0
45	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	9.6	1
44	A multifunctional and low-energy electrochemical membrane system for chemical-free regulation of solution pH.. *Water Research*, **2022**, 216, 118330	12.5	
43	Engineering pressure retarded osmosis membrane bioreactor (PRO-MBR) for simultaneous water and energy recovery from municipal wastewater.. *Science of the Total Environment*, **2022**, 154048	10.2	0
42	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	9.6	1
41	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		1
40	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	12.5	11
39	Insights into the Influence of Membrane Permeability and Structure on Osmotically-Driven Membrane Processes. *Membranes*, **2021**, 11,	3.8	1
38	Calcium phosphate scaling in osmotically driven membrane processes: Limiting flux behavior and its implications for scaling mitigation. *Journal of Membrane Science*, **2021**, 631, 119351	9.6	0
37	Boron and salt ion transport in electrically assisted reverse osmosis. *Journal of Membrane Science*, **2021**, 637, 119639	9.6	4
36	Digitalization to achieve sustainable development goals: Steps towards a Smart Green Planet. *Science of the Total Environment*, **2021**, 794, 148539	10.2	58
35	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	9.6	1
34	Reverse osmosis and forward osmosis fouling: a comparison. *Discover Chemical Engineering*, **2021**, 1, 1		1
33	Pressure-retarded membrane distillation for simultaneous hypersaline brine desalination and low-grade heat harvesting. *Journal of Membrane Science*, **2020**, 597, 117765	9.6	16
32	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	10.3	3
31	Forward osmosis concentration of a vanadium leaching solution. *Journal of Membrane Science*, **2019**, 582, 164-171	9.6	10

30	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	9.6	20
29	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	9.6	22
28	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	14.7	29
27	Removal of cytostatic drugs from wastewater by an anaerobic osmotic membrane bioreactor. *Chemical Engineering Journal*, **2018**, 339, 153-161	14.7	43
26	Exploring the differences between forward osmosis and reverse osmosis fouling. *Journal of Membrane Science*, **2018**, 565, 241-253	9.6	72
25	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	9.6	21
24	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. *Environment International*, **2018**, 121, 1039-1057	12.9	51
23	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. *Water Research*, **2017**, 116, 116-125	12.5	54
22	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. *Journal of Membrane Science*, **2017**, 542, 233-244	9.6	26
21	Effect of reverse solute diffusion on scaling in forward osmosis: A new control strategy by tailoring draw solution chemistry. *Desalination*, **2017**, 401, 230-237	10.3	34
20	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	12.5	29
19	Unique roles of aminosilane in developing anti-fouling thin film composite (TFC) membranes for pressure retarded osmosis (PRO). *Desalination*, **2016**, 389, 119-128	10.3	33
18	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. *Journal of Membrane Science*, **2016**, 504, 75-88	9.6	47
17	Membrane fouling in osmotically driven membrane processes: A review. *Journal of Membrane Science*, **2016**, 499, 201-233	9.6	488
16	Metal–organic framework-based porous matrix membranes for improving mass transfer in forward osmosis membranes. *Journal of Membrane Science*, **2015**, 492, 392-399	9.6	62
15	Gypsum scaling in pressure retarded osmosis: experiments, mechanisms and implications. *Water Research*, **2014**, 48, 387-95	12.5	126
14	Mining nutrients (N, K, P) from urban source-separated urine by forward osmosis dewatering. *Environmental Science & Technology*, **2014**, 48, 3386-94	10.3	118
13	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	9.6	157

12	Organic fouling in pressure retarded osmosis: Experiments, mechanisms and implications. *Journal of Membrane Science*, **2013**, 428, 181-189	9.6	140
11	Strategic Co-Location in a Hybrid Process Involving Desalination and Pressure Retarded Osmosis (PRO). *Membranes*, **2013**, 3, 98-125	3.8	44
10	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. *Journal of Membrane Science*, **2012**, 389, 25-33	9.6	271
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	9.6	130
8	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	9.6	277
7	Relating reverse and forward solute diffusion to membrane fouling in osmotically driven membrane processes. *Water Research*, **2012**, 46, 2478-86	12.5	151
6	Microscopic characterization of FO/PRO membranes--a comparative study of CLSM, TEM and SEM. *Environmental Science & Technology*, **2012**, 46, 9995-10003	10.3	50
5	Boric acid permeation in forward osmosis membrane processes: modeling, experiments, and implications. *Environmental Science & Technology*, **2011**, 45, 2323-30	10.3	115
4	Modeling double-skinned FO membranes. *Desalination*, **2011**, 283, 178-186	10.3	80
3	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	9.6	613
2	The role of hydrodynamic conditions and solution chemistry on protein fouling during ultrafiltration. *Desalination*, **2009**, 249, 1079-1087	10.3	87
1	Investigation of soluble microbial products in a full-scale UASB reactor running at low organic loading rate. *Bioresource Technology*, **2009**, 100, 3471-6	11	47