

Andrea Achilli

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28
papers

3,430
citations

15
h-index

29
g-index

29
ext. papers

3,790
ext. citations

9.5
avg, IF

5.53
L-index

#	Paper	IF	Citations
28	Scale-up of membrane distillation systems using bench-scale data. <i>Desalination</i> , 2022 , 530, 115654	10.3	1
27	Modeling the energy consumption of potable water reuse schemes.. <i>Water Research X</i> , 2021 , 13, 1001268.1		1
26	Net Zero Urban Water from Concept to Applications: Integrating Natural, Built, and Social Systems for Responsive and Adaptive Solutions. <i>ACS ES&T Water</i> , 2021 , 1, 518-529		2
25	Evidence of solution-diffusion-with-defects in an engineering-scale pressure retarded osmosis system. <i>Journal of Membrane Science</i> , 2021 , 625, 119135	9.6	2
24	Membrane Distillation Provides a Dual Barrier for Coronavirus and Bacteriophage Removal. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 713-718	11	4
23	Extending the life of water reuse reverse osmosis membranes using chlorination. <i>Journal of Membrane Science</i> , 2021 , 119897	9.6	1
22	Forward osmosis and pressure retarded osmosis process modeling for integration with seawater reverse osmosis desalination. <i>Desalination</i> , 2020 , 491, 114583	10.3	17
21	Emerging investigator series: membrane distillation and high salinity: analysis and implications. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 1538-1552	4.2	5
20	A modeling framework to evaluate blending of seawater and treated wastewater streams for synergistic desalination and potable reuse. <i>Water Research</i> , 2020 , 170, 115282	12.5	12
19	Increasing water recovery during reclamation of treated municipal wastewater using bipolar membrane electro dialysis and fluidized bed crystallization. <i>Journal of Water Process Engineering</i> , 2020 , 38, 101555	6.7	6
18	Pretreatment for water reuse using fluidized bed crystallization. <i>Journal of Water Process Engineering</i> , 2020 , 35, 101226	6.7	4
17	Integrating an aerobic/anoxic osmotic membrane bioreactor with membrane distillation for potable reuse. <i>Desalination</i> , 2018 , 432, 46-54	10.3	35
16	Challenges and opportunities at the nexus of energy, water, and food: A perspective from the southwest United States. <i>MRS Energy & Sustainability</i> , 2018 , 5, 1	2.2	7
15	Coastal California Wastewater Effluent as a Resource for Seawater Desalination Brine Commingling. <i>Water (Switzerland)</i> , 2018 , 10, 322	3	9
14	A stepwise model of direct contact membrane distillation for application to large-scale systems: Experimental results and model predictions. <i>Desalination</i> , 2016 , 378, 14-27	10.3	37
13	A review of polymeric membranes and processes for potable water reuse. <i>Progress in Polymer Science</i> , 2016 , 81, 209-237	29.6	304
12	River-to-sea pressure retarded osmosis: Resource utilization in a full-scale facility. <i>Desalination</i> , 2016 , 389, 39-51	10.3	52

11	The osmotic membrane bioreactor: a critical review. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 581-605	4.2	92
10	Factors contributing to flux improvement in vacuum-enhanced direct contact membrane distillation. <i>Desalination</i> , 2015 , 367, 197-205	10.3	33
9	Experimental results from RO-PRO: a next generation system for low-energy desalination. <i>Environmental Science & Technology</i> , 2014 , 48, 6437-43	10.3	115
8	RO-PRO desalination: An integrated low-energy approach to seawater desalination. <i>Applied Energy</i> , 2014 , 120, 104-114	10.7	149
7	Pressure-Retarded Osmosis 2013 , 1		3
6	Standard Methodology for Evaluating Membrane Performance in Osmotically Driven Membrane Processes. <i>Desalination</i> , 2013 , 312, 31-38	10.3	304
5	Organic ionic salt draw solutions for osmotic membrane bioreactors. <i>Bioresource Technology</i> , 2012 , 122, 207-16	11	124
4	Selection of inorganic-based draw solutions for forward osmosis applications. <i>Journal of Membrane Science</i> , 2010 , 364, 233-241	9.6	533
3	Pressure retarded osmosis: From the vision of Sidney Loeb to the first prototype installation □ Review. <i>Desalination</i> , 2010 , 261, 205-211	10.3	360
2	Power generation with pressure retarded osmosis: An experimental and theoretical investigation. <i>Journal of Membrane Science</i> , 2009 , 343, 42-52	9.6	574
1	The forward osmosis membrane bioreactor: A low fouling alternative to MBR processes. <i>Desalination</i> , 2009 , 239, 10-21	10.3	644