

List of Publications by Year in descending order

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DEI XII

#	Article	IF	CITATIONS
1	Effectiveness and mechanisms of electromagnetic field on reverse osmosis membrane scaling control during brackish groundwater desalination. Separation and Purification Technology, 2022, 280, 119823.	3.9	9
2	Photocatalytic membrane reactors for produced water treatment and reuse: Fundamentals, affecting factors, rational design, and evaluation metrics. Journal of Hazardous Materials, 2022, 424, 127493.	6.5	34
3	Impacts of seasonality and operating conditions on water quality of algal versus conventional wastewater treatment: Part 1. Journal of Environmental Management, 2022, 304, 114291.	3.8	1
4	Impacts of seasonality and operating conditions on algal-dual osmosis membrane system for potable water reuse: Part 2. Journal of Environmental Management, 2022, 304, 114295.	3.8	0
5	Characterization of produced water and surrounding surface water in the Permian Basin, the United States. Journal of Hazardous Materials, 2022, 430, 128409.	6.5	27
6	Toxicological characterization of produced water from the Permian Basin. Science of the Total Environment, 2022, 815, 152943.	3.9	11
7	Analysis of Brackish Water Desalination for Municipal Uses: Case Studies on Challenges and Opportunities. ACS ES&T Engineering, 2022, 2, 306-322.	3.7	15
8	Spatiotemporal Analysis of Produced Water Demand for Fit-For-Purpose Reuse—A Permian Basin, New Mexico Case Study. Water (Switzerland), 2022, 14, 1735.	1.2	3
9	Analysis of Regulatory Framework for Produced Water Management and Reuse in Major Oil- and Gas-Producing Regions in the United States. Water (Switzerland), 2022, 14, 2162.	1.2	5
10	Datasets associated with the characterization of produced water and Pecos River water in the Permian Basin, the United States. Data in Brief, 2022, 43, 108443.	0.5	1
11	Biomineralization of hypersaline produced water using microbially induced calcite precipitation. Water Research, 2021, 190, 116753.	5.3	39
12	Solar distillation of highly saline produced water using low-cost and high-performance carbon black and airlaid paper-based evaporator (CAPER). Chemosphere, 2021, 269, 129372.	4.2	21
13	A Critical Review of Analytical Methods for Comprehensive Characterization of Produced Water. Water (Switzerland), 2021, 13, 183.	1.2	33
14	Pilot Demonstration of Reclaiming Municipal Wastewater for Irrigation Using Electrodialysis Reversal: Effect of Operational Parameters on Water Quality. Membranes, 2021, 11, 333.	1.4	10
15	Polydopamine-Assisted Modification of Anion-Exchange Membranes with Nanomaterials for Improved Biofouling Resistance and Electrodialysis Performance. ACS ES&T Engineering, 2021, 1, 1009-1020.	3.7	6
16	Nanocomposite cation-exchange membranes for wastewater electrodialysis: organic fouling, desalination performance, and toxicity testing. Separation and Purification Technology, 2021, 275, 119217.	3.9	23
17	Analysis and prediction of produced water quantity and quality in the Permian Basin using machine learning techniques. Science of the Total Environment, 2021, 801, 149693.	3.9	19
18	Simultaneous recovery of ammonium, potassium and magnesium from produced water by struvite precipitation. Chemical Engineering Journal, 2020, 382, 123001.	6.6	86

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19	Potable-quality water recovery from primary effluent through a coupled algal-osmosis membrane system. Chemosphere, 2020, 240, 124883.	4.2	21
20	Treatment of Produced Water with Photocatalysis: Recent Advances, Affecting Factors and Future Research Prospects. Catalysts, 2020, 10, 924.	1.6	80
21	Interplay of the Factors Affecting Water Flux and Salt Rejection in Membrane Distillation: A State-of-the-Art Critical Review. Water (Switzerland), 2020, 12, 2841.	1.2	38
22	Simulation of Flow through Spacer of Bench-Scale Electrodialysis Desalination Stack. , 2020, , .		0
23	A critical review of the application of electromagnetic fields for scaling control in water systems: mechanisms, characterization, and operation. Npj Clean Water, 2020, 3, .	3.1	51
24	Treatment of Produced Water in the Permian Basin for Hydraulic Fracturing: Comparison of Different Coagulation Processes and Innovative Filter Media. Water (Switzerland), 2020, 12, 770.	1.2	53
25	Low-cost and reusable carbon black based solar evaporator for effective water desalination. Desalination, 2020, 483, 114412.	4.0	49
26	Datasets associated with investigating the potential for beneficial reuse of produced water from oil and gas extraction outside of the energy sector. Data in Brief, 2020, 30, 105406.	0.5	2
27	Can we beneficially reuse produced water from oil and gas extraction in the U.S.?. Science of the Total Environment, 2020, 717, 137085.	3.9	111
28	Developing anti-biofouling and energy-efficient cation-exchange membranes using conductive polymers and nanomaterials. Journal of Membrane Science, 2020, 603, 118034.	4.1	14
29	Numerical Investigation of the Effect of Two-Dimensional Surface Waviness on the Current Density of Ion-Selective Membranes for Electrodialysis. Water (Switzerland), 2019, 11, 1397.	1.2	4
30	A Thermal Model for Predicting the Performance of a Solar Still with Fresnel Lens. Water (Switzerland), 2019, 11, 1860.	1.2	37
31	Enhancing the performance of a single-basin single-slope solar still by using Fresnel lens: Experimental study. Journal of Cleaner Production, 2019, 239, 118094.	4.6	61
32	A Pilot Study of an Electromagnetic Field for Control of Reverse Osmosis Membrane Fouling and Scaling During Brackish Groundwater Desalination. Water (Switzerland), 2019, 11, 1015.	1.2	22
33	Enhanced visible light photocatalysis by TiO2–BN enabled electrospinning of nanofibers for pharmaceutical degradation and wastewater treatment. Photochemical and Photobiological Sciences, 2019, 18, 2921-2930.	1.6	20
34	Spatial variability of produced-water quality and alternative-source water analysis applied to the Permian Basin, USA. Hydrogeology Journal, 2019, 27, 2889-2905.	0.9	20
35	Adsorption and photocatalytic oxidation of ibuprofen using nanocomposites of TiO2 nanofibers combined with BN nanosheets: Degradation products and mechanisms. Chemosphere, 2019, 220, 921-929.	4.2	97
36	Physicochemical and electrochemical characterization of cation-exchange membranes modified with polyethyleneimine for elucidating enhanced monovalent permselectivity of electrodialysis. Journal of Membrane Science, 2019, 572, 545-556.	4.1	48

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37	Effect of calcium silicate hydrates coupled with Myriophyllum spicatum on phosphorus release and immobilization in shallow lake sediment. Chemical Engineering Journal, 2018, 331, 462-470.	6.6	30
38	Selective separation of mono- and di-valent cations in electrodialysis during brackish water desalination: Bench and pilot-scale studies. Desalination, 2018, 428, 146-160.	4.0	70
39	Microalgae cultivation and culture medium recycling by a two-stage cultivation system. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	38
40	iDST: An integrated decision support tool for treatment and beneficial use of non-traditional water supplies – Part I. Methodology. Journal of Water Process Engineering, 2018, 25, 236-246.	2.6	24
41	iDST: An integrated decision support tool for treatment and beneficial use of non-traditional water supplies – Part II. Marcellus and Barnett Shale case studies. Journal of Water Process Engineering, 2018, 25, 258-268.	2.6	22
42	Study of polyethyleneimine coating on membrane permselectivity and desalination performance during pilot-scale electrodialysis of reverse osmosis concentrate. Separation and Purification Technology, 2018, 207, 396-405.	3.9	36
43	Sorption of Arsenic from Desalination Concentrate onto Drinking Water Treatment Solids: Operating Conditions and Kinetics. Water (Switzerland), 2018, 10, 96.	1.2	16
44	Minimum Performance Requirements for Microbial Fuel Cells to Achieve Energy-Neutral Wastewater Treatment. Water (Switzerland), 2018, 10, 243.	1.2	19
45	Immobilized TiO2-reduced graphene oxide nanocomposites on optical fibers as high performance photocatalysts for degradation of pharmaceuticals. Chemical Engineering Journal, 2017, 310, 389-398.	6.6	150
46	Innovative use of drinking water treatment solids for heavy metals removal from desalination concentrate: Synergistic effect of salts and natural organic matter. Chemical Engineering Research and Design, 2017, 120, 231-239.	2.7	23
47	Comparison study on photocatalytic oxidation of pharmaceuticals by TiO2-Fe and TiO2-reduced graphene oxide nanocomposites immobilized on optical fibers. Journal of Hazardous Materials, 2017, 333, 162-168.	6.5	105
48	Effect of calcium silicate hydrates (CSH) on phosphorus immobilization and speciation in shallow lake sediment. Chemical Engineering Journal, 2017, 317, 844-853.	6.6	56
49	Comparative study on pharmaceuticals adsorption in reclaimed water desalination concentrate using biochar: Impact of salts and organic matter. Science of the Total Environment, 2017, 601-602, 857-864.	3.9	89
50	Photocatalytic Treatment of Desalination Concentrate Using Optical Fibers Coated With Nanostructured Thin Films: Impact of Water Chemistry and Seasonal Climate Variations. Photochemistry and Photobiology, 2016, 92, 379-387.	1.3	16
51	Sacrificing power for more cost-effective treatment: A techno-economic approach for engineering microbial fuel cells. Chemosphere, 2016, 161, 10-18.	4.2	38
52	Interplay of Anode, Cathode, and Current in Microbial Fuel Cells: Implications for Wastewater Treatment. Energy Technology, 2016, 4, 583-592.	1.8	12
53	Geochemistry of formation waters from the Wolfcamp and "Cline―shales: Insights into brine origin, reservoir connectivity, and fluid flow in the Permian Basin, USA. Chemical Geology, 2016, 425, 76-92.	1.4	124
54	Volatile-organic molecular characterization of shale-oil produced water from the Permian Basin. Chemosphere, 2016, 148, 126-136.	4.2	85

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55	Microbial capacitive desalination for integrated organic matter and salt removal and energy production from unconventional natural gas produced water. Environmental Science: Water Research and Technology, 2015, 1, 47-55.	1.2	50
56	Use of drinking water treatment solids for arsenate removal from desalination concentrate. Journal of Colloid and Interface Science, 2015, 445, 252-261.	5.0	29
57	Removal of low concentration nutrients in hydroponic wetlands integrated with zeolite and calcium silicate hydrate functional substrates. Ecological Engineering, 2015, 82, 442-450.	1.6	32
58	Removal and fate of trace organic compounds in microbial fuel cells. Chemosphere, 2015, 125, 94-101.	4.2	38
59	Enhanced photocatalysis using side-glowing optical fibers coated with Fe-doped TiO2 nanocomposite thin films. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 307-308, 88-98.	2.0	70
60	Shale gas produced water treatment using innovative microbial capacitive desalination cell. Journal of Hazardous Materials, 2015, 283, 847-855.	6.5	93
61	The sweet spot of forward osmosis: Treatment of produced water, drilling wastewater, and other complex and difficult liquid streams. Desalination, 2014, 333, 23-35.	4.0	324
62	High performance spiral wound microbial fuel cell with hydraulic characterization. Bioresource Technology, 2014, 174, 287-293.	4.8	21
63	Rejection of Trace Organic Compounds by Forward Osmosis Membranes: A Literature Review. Environmental Science & Technology, 2014, 48, 3612-3624.	4.6	174
64	Sorption of metals and metalloids from reverse osmosis concentrate on drinking water treatment solids. Separation and Purification Technology, 2014, 134, 37-45.	3.9	85
65	Selective removal of arsenic and monovalent ions from brackish water reverse osmosis concentrate. Journal of Hazardous Materials, 2013, 260, 885-891.	6.5	100
66	Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use. Environmental Engineering Science, 2013, 30, 502-514.	0.8	129
67	Towards direct potable reuse with forward osmosis: Technical assessment of long-term process performance at the pilot scale. Journal of Membrane Science, 2013, 445, 34-46.	4.1	129
68	Forward osmosis treatment of drilling mud and fracturing wastewater from oil and gas operations. Desalination, 2013, 312, 60-66.	4.0	284
69	Microbial desalination cell with capacitive adsorption for ion migration control. Bioresource Technology, 2012, 120, 332-336.	4.8	86
70	Long-term performance and characterization of microbial desalination cells in treating domestic wastewater. Bioresource Technology, 2012, 120, 187-193.	4.8	103
71	Sustainable desalination using a microbial capacitive desalination cell. Energy and Environmental Science, 2012, 5, 7161.	15.6	130
72	Microbial desalination cells for improved performance in wastewater treatment, electricity production, and desalination. Bioresource Technology, 2012, 105, 60-66.	4.8	203

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73	Ionic composition and transport mechanisms in microbial desalination cells. Journal of Membrane Science, 2012, 409-410, 16-23.	4.1	88
74	Composite Geochemical Database for Coalbed Methane Produced Water Quality in the Rocky Mountain Region. Environmental Science & Technology, 2011, 45, 7655-7663.	4.6	107
75	Comprehensive Bench- and Pilot-Scale Investigation of Trace Organic Compounds Rejection by Forward Osmosis. Environmental Science & amp; Technology, 2011, 45, 8483-8490.	4.6	168
76	Fouling of nanofiltration and reverse osmosis membranes during municipal wastewater reclamation: Membrane autopsy results from pilot-scale investigations. Journal of Membrane Science, 2010, 353, 111-121.	4.1	228
77	Beneficial use of co-produced water through membrane treatment: technical-economic assessment. Desalination, 2008, 225, 139-155.	4.0	129
78	Treatment of brackish produced water using carbon aerogel-based capacitive deionization technology. Water Research, 2008, 42, 2605-2617.	5.3	521
79	Viability of nanofiltration and ultra-low pressure reverse osmosis membranes for multi-beneficial use of methane produced water. Separation and Purification Technology, 2006, 52, 67-76.	3.9	126
80	Effect of membrane fouling on transport of organic contaminants in NF/RO membrane applications. Journal of Membrane Science, 2006, 279, 165-175.	4.1	389
81	Rejection of Emerging Organic Micropollutants in Nanofiltration-Reverse Osmosis Membrane Applications. Water Environment Research, 2005, 77, 40-48.	1.3	168
82	Rejection of wastewater-derived micropollutants in high-pressure membrane applications leading to indirect potable reuse. Environmental Progress, 2005, 24, 400-409.	0.8	73
83	Factors affecting the rejection of organic solutes during NF/RO treatment—a literature review. Water Research, 2004, 38, 2795-2809.	5.3	863