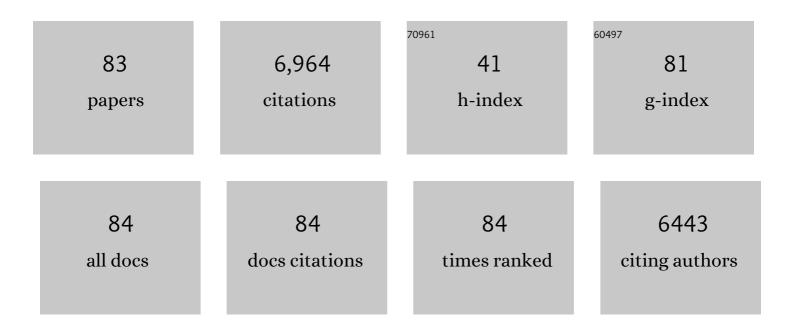


List of Publications by Year in descending order

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DEI VII

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Factors affecting the rejection of organic solutes during NF/RO treatment—a literature review. Water Research, 2004, 38, 2795-2809. | 5.3 | 863 |
| 2 | Treatment of brackish produced water using carbon aerogel-based capacitive deionization technology. Water Research, 2008, 42, 2605-2617. | 5.3 | 521 |
| 3 | 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 |
| 4 | 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 |
| 5 | Forward osmosis treatment of drilling mud and fracturing wastewater from oil and gas operations. Desalination, 2013, 312, 60-66. | 4.0 | 284 |
| 6 | 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 |
| 7 | Microbial desalination cells for improved performance in wastewater treatment, electricity production, and desalination. Bioresource Technology, 2012, 105, 60-66. | 4.8 | 203 |
| 8 | Rejection of Trace Organic Compounds by Forward Osmosis Membranes: A Literature Review. Environmental Science & Technology, 2014, 48, 3612-3624. | 4.6 | 174 |
| 9 | Rejection of Emerging Organic Micropollutants in Nanofiltration-Reverse Osmosis Membrane Applications. Water Environment Research, 2005, 77, 40-48. | 1.3 | 168 |
| 10 | 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 |
| 11 | 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 |
| 12 | Sustainable desalination using a microbial capacitive desalination cell. Energy and Environmental Science, 2012, 5, 7161. | 15.6 | 130 |
| 13 | Beneficial use of co-produced water through membrane treatment: technical-economic assessment. Desalination, 2008, 225, 139-155. | 4.0 | 129 |
| 14 | Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use. Environmental Engineering Science, 2013, 30, 502-514. | 0.8 | 129 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Composite Geochemical Database for Coalbed Methane Produced Water Quality in the Rocky Mountain Region. Environmental Science & Technology, 2011, 45, 7655-7663. | 4.6 | 107 |
| 20 | 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 |
| 21 | Long-term performance and characterization of microbial desalination cells in treating domestic wastewater. Bioresource Technology, 2012, 120, 187-193. | 4.8 | 103 |
| 22 | Selective removal of arsenic and monovalent ions from brackish water reverse osmosis concentrate. Journal of Hazardous Materials, 2013, 260, 885-891. | 6.5 | 100 |
| 23 | 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 |
| 24 | Shale gas produced water treatment using innovative microbial capacitive desalination cell. Journal of Hazardous Materials, 2015, 283, 847-855. | 6.5 | 93 |
| 25 | 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 |
| 26 | lonic composition and transport mechanisms in microbial desalination cells. Journal of Membrane Science, 2012, 409-410, 16-23. | 4.1 | 88 |
| 27 | Microbial desalination cell with capacitive adsorption for ion migration control. Bioresource Technology, 2012, 120, 332-336. | 4.8 | 86 |
| 28 | Simultaneous recovery of ammonium, potassium and magnesium from produced water by struvite precipitation. Chemical Engineering Journal, 2020, 382, 123001. | 6.6 | 86 |
| 29 | 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 |
| 30 | Volatile-organic molecular characterization of shale-oil produced water from the Permian Basin. Chemosphere, 2016, 148, 126-136. | 4.2 | 85 |
| 31 | Treatment of Produced Water with Photocatalysis: Recent Advances, Affecting Factors and Future Research Prospects. Catalysts, 2020, 10, 924. | 1.6 | 80 |
| 32 | Rejection of wastewater-derived micropollutants in high-pressure membrane applications leading to indirect potable reuse. Environmental Progress, 2005, 24, 400-409. | 0.8 | 73 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | Low-cost and reusable carbon black based solar evaporator for effective water desalination. Desalination, 2020, 483, 114412. | 4.0 | 49 |
| 41 | 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 |
| 42 | Biomineralization of hypersaline produced water using microbially induced calcite precipitation. Water Research, 2021, 190, 116753. | 5.3 | 39 |
| 43 | Removal and fate of trace organic compounds in microbial fuel cells. Chemosphere, 2015, 125, 94-101. | 4.2 | 38 |
| 44 | Sacrificing power for more cost-effective treatment: A techno-economic approach for engineering microbial fuel cells. Chemosphere, 2016, 161, 10-18. | 4.2 | 38 |
| 45 | Microalgae cultivation and culture medium recycling by a two-stage cultivation system. Frontiers of Environmental Science and Engineering, 2018, 12, 1. | 3.3 | 38 |
| 46 | 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 |
| 47 | A Thermal Model for Predicting the Performance of a Solar Still with Fresnel Lens. Water (Switzerland), 2019, 11, 1860. | 1.2 | 37 |
| 48 | 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 |
| 49 | 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 |
| 50 | A Critical Review of Analytical Methods for Comprehensive Characterization of Produced Water. Water (Switzerland), 2021, 13, 183. | 1.2 | 33 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | Nanocomposite cation-exchange membranes for wastewater electrodialysis: organic fouling, desalination performance, and toxicity testing. Separation and Purification Technology, 2021, 275, 119217. | 3.9 | 23 |
| 58 | 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 |
| 59 | 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 |
| 60 | High performance spiral wound microbial fuel cell with hydraulic characterization. Bioresource Technology, 2014, 174, 287-293. | 4.8 | 21 |
| 61 | Potable-quality water recovery from primary effluent through a coupled algal-osmosis membrane system. Chemosphere, 2020, 240, 124883. | 4.2 | 21 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | Minimum Performance Requirements for Microbial Fuel Cells to Achieve Energy-Neutral Wastewater Treatment. Water (Switzerland), 2018, 10, 243. | 1.2 | 19 |
| 66 | 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 |
| 67 | 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 |
| 68 | Sorption of Arsenic from Desalination Concentrate onto Drinking Water Treatment Solids: Operating Conditions and Kinetics. Water (Switzerland), 2018, 10, 96. | 1.2 | 16 |
| 69 | 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 |
| 70 | Developing anti-biofouling and energy-efficient cation-exchange membranes using conductive polymers and nanomaterials. Journal of Membrane Science, 2020, 603, 118034. | 4.1 | 14 |
| 71 | Interplay of Anode, Cathode, and Current in Microbial Fuel Cells: Implications for Wastewater Treatment. Energy Technology, 2016, 4, 583-592. | 1.8 | 12 |
| 72 | Toxicological characterization of produced water from the Permian Basin. Science of the Total Environment, 2022, 815, 152943. | 3.9 | 11 |

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| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | Simulation of Flow through Spacer of Bench-Scale Electrodialysis Desalination Stack. , 2020, , . | | 0 |
| 83 | 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 |