

Ali Altaee

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109
papers

2,122
citations

28
h-index

41
g-index

117
ext. papers

2,850
ext. citations

8
avg, IF

5.97
L-index

#	Paper	IF	Citations
109	The application of pressure-driven ceramic membrane technology for the treatment of industrial wastewaters [A review]. <i>Separation and Purification Technology</i> , 2018 , 200, 198-220	8.3	140
108	Comparison between Forward Osmosis-Reverse Osmosis and Reverse Osmosis processes for seawater desalination. <i>Desalination</i> , 2014 , 336, 50-57	10.3	109
107	Pressure retarded osmosis: advancement in the process applications for power generation and desalination. <i>Desalination</i> , 2015 , 356, 31-46	10.3	84
106	Graphitic carbon nitride based nanocomposites for the photocatalysis of organic contaminants under visible irradiation: Progress, limitations and future directions. <i>Science of the Total Environment</i> , 2018 , 633, 546-559	10.2	80
105	Recent developments in forward osmosis membranes using carbon-based nanomaterials. <i>Desalination</i> , 2020 , 482, 114375	10.3	77
104	Pressure retarded osmosis for power generation and seawater desalination: Performance analysis. <i>Desalination</i> , 2014 , 344, 108-115	10.3	69
103	Photocatalytic removal of perfluoroalkyl substances from water and wastewater: Mechanism, kinetics and controlling factors. <i>Chemosphere</i> , 2017 , 189, 717-729	8.4	67
102	Combined influence of temperature and flow rate of feeds on the performance of forward osmosis. <i>Desalination</i> , 2016 , 398, 98-105	10.3	55
101	A novel Forward osmosis membrane pretreatment of seawater for thermal desalination processes. <i>Desalination</i> , 2013 , 326, 19-29	10.3	51
100	High recovery rate NF/RO hybrid system for inland brackish water treatment. <i>Desalination</i> , 2015 , 363, 19-25	10.3	50
99	Alternative design to dual stage NF seawater desalination using high rejection brackish water membranes. <i>Desalination</i> , 2011 , 273, 391-397	10.3	46
98	Forward osmosis pretreatment of seawater to thermal desalination: High temperature FO-MSF/MED hybrid system. <i>Desalination</i> , 2014 , 339, 18-25	10.3	44
97	Evaluation of forward osmosis as a pretreatment process for multi stage flash seawater desalination. <i>Desalination</i> , 2019 , 461, 22-29	10.3	41
96	Visible and UV photocatalysis of aqueous perfluorooctanoic acid by TiO and peroxymonosulfate: Process kinetics and mechanistic insights. <i>Chemosphere</i> , 2020 , 243, 125366	8.4	40
95	Evaluation of FO-RO and PRO-RO designs for power generation and seawater desalination using impaired water feeds. <i>Desalination</i> , 2015 , 368, 27-35	10.3	39
94	Application of artificial neural network and multiple linear regression in modeling nutrient recovery in vermicompost under different conditions. <i>Bioresource Technology</i> , 2020 , 303, 122926	11	39
93	Integration and optimization of pressure retarded osmosis with reverse osmosis for power generation and high efficiency desalination. <i>Energy</i> , 2016 , 103, 110-118	7.9	37

92	Draw solutions for Forward Osmosis process: Osmotic pressure of binary and ternary aqueous solutions of magnesium chloride, sodium chloride, sucrose and maltose. <i>Journal of Food Engineering</i> , 2015 , 155, 10-15	6	36
91	A Review of Fouling Mechanisms, Control Strategies and Real-Time Fouling Monitoring Techniques in Forward Osmosis. <i>Water (Switzerland)</i> , 2019 , 11, 695	3	35
90	Process development for the degradation of textile azo dyes (mono-, di-, poly-) by advanced oxidation process - Ozonation: Experimental & partial derivative modelling approach. <i>Journal of Environmental Management</i> , 2020 , 265, 110397	7.9	35
89	Modeling water flux in osmotic membrane bioreactor by adaptive network-based fuzzy inference system and artificial neural network. <i>Bioresource Technology</i> , 2020 , 310, 123391	11	34
88	A conceptual design of low fouling and high recovery FOMSF desalination plant. <i>Desalination</i> , 2014 , 343, 2-7	10.3	33
87	Pressure retarded osmosis process for power generation: Feasibility, energy balance and controlling parameters. <i>Applied Energy</i> , 2017 , 206, 303-311	10.7	32
86	Single and dual stage closed-loop pressure retarded osmosis for power generation: Feasibility and performance. <i>Applied Energy</i> , 2017 , 191, 328-345	10.7	31
85	Dual-stage forward osmosis/pressure retarded osmosis process for hypersaline solutions and fracking wastewater treatment. <i>Desalination</i> , 2014 , 350, 79-85	10.3	31
84	Computational model for estimating reverse osmosis system design and performance: Part-one binary feed solution. <i>Desalination</i> , 2012 , 291, 101-105	10.3	31
83	Graphene-Based Membranes for Water and Wastewater Treatment: A Review. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3274-3293	5.6	30
82	Improved photocatalysis of perfluorooctanoic acid in water and wastewater by GaO/UV system assisted by peroxymonosulfate. <i>Chemosphere</i> , 2020 , 239, 124722	8.4	30
81	Enhancement of Cd ²⁺ removal from aqueous solution by multifunctional mesoporous silica: Equilibrium isotherms and kinetics study. <i>Separation and Purification Technology</i> , 2019 , 224, 199-208	8.3	26
80	The feasibility of decontamination of reduced saline sediments from copper using the electrokinetic process. <i>Journal of Environmental Management</i> , 2008 , 88, 1611-8	7.9	25
79	Carbon Quantum Dots for Energy Applications: A Review. <i>ACS Applied Nano Materials</i> , 2021 , 4, 6515-6543	4.6	25
78	Application of Vibratory System to Improve the Critical Flux in Submerged Hollow Fiber MF Process. <i>Separation Science and Technology</i> , 2009 , 45, 28-34	2.5	23
77	Evaluation the potential and energy efficiency of dual stage pressure retarded osmosis process. <i>Applied Energy</i> , 2017 , 199, 359-369	10.7	22
76	Energy efficiency of RO and FOBO system for high-salinity seawater treatment. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 77-91	4.3	20
75	A hybrid forward osmosis/reverse osmosis process for the supply of fertilizing solution from treated wastewater. <i>Journal of Water Process Engineering</i> , 2019 , 32, 100975	6.7	20

74	Organic Fouling in Forward Osmosis: A Comprehensive Review. <i>Water (Switzerland)</i> , 2020 , 12, 1505	3	20
73	Nanomaterials in the advancement of hydrogen energy storage. <i>Heliyon</i> , 2020 , 6, e04487	3.6	20
72	Effective modelling of hydrogen and energy recovery in microbial electrolysis cell by artificial neural network and adaptive network-based fuzzy inference system. <i>Bioresource Technology</i> , 2020 , 316, 123967	11	20
71	Energy efficiency of hollow fibre membrane module in the forward osmosis seawater desalination process. <i>Journal of Membrane Science</i> , 2019 , 587, 117165	9.6	19
70	A state-of-the-art protocol to minimize the internal concentration polarization in forward osmosis membranes. <i>Desalination</i> , 2020 , 480, 114355	10.3	18
69	Dual stage PRO process for power generation from different feed resources. <i>Desalination</i> , 2014 , 352, 118-127	10.3	18
68	High-Gradient Magnetic Separator (HGMS) combined with adsorption for nitrate removal from aqueous solution. <i>Separation and Purification Technology</i> , 2019 , 212, 650-659	8.3	17
67	Challenges and potentials of forward osmosis process in the treatment of wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 1339-1383	11.1	17
66	Dilution of seawater using dewatered construction water in a hybrid forward osmosis system. <i>Journal of Cleaner Production</i> , 2018 , 195, 365-373	10.3	16
65	Optimization of module pressure retarded osmosis membrane for maximum energy extraction. <i>Journal of Water Process Engineering</i> , 2019 , 32, 100935	6.7	15
64	Preparation of novel high permeability and antifouling polysulfone-vanillin membrane. <i>Desalination</i> , 2020 , 496, 114759	10.3	15
63	Feasibility of brackish water and landfill leachate treatment by GO/MoS-PVA composite membranes. <i>Science of the Total Environment</i> , 2020 , 745, 141088	10.2	15
62	Modelling and optimization of modular system for power generation from a salinity gradient. <i>Renewable Energy</i> , 2019 , 141, 139-147	8.1	14
61	Performance evaluation of reverse osmosis process in the post-treatment of mining wastewaters: Case study of Costerfield mining operations, Victoria, Australia. <i>Journal of Water Process Engineering</i> , 2020 , 34, 101116	6.7	14
60	Design optimization of high performance dual stage pressure retarded osmosis. <i>Desalination</i> , 2015 , 355, 217-224	10.3	14
59	Treatment of biologically treated landfill leachate with forward osmosis: Investigating membrane performance and cleaning protocols. <i>Science of the Total Environment</i> , 2020 , 744, 140901	10.2	13
58	Progress in osmotic membrane bioreactors research: Contaminant removal, microbial community and bioenergy production in wastewater. <i>Bioresource Technology</i> , 2021 , 330, 124998	11	12
57	A novel empirical method for predicting concentration polarization in forward osmosis for single and multicomponent draw solutions. <i>Desalination</i> , 2020 , 494, 114668	10.3	11

56	The effect of energy recovery device and feed flow rate on the energy efficiency of reverse osmosis process. <i>Chemical Engineering Research and Design</i> , 2020 , 158, 12-23	5.5	11
55	Copper removal from contaminated soil through electrokinetic process with reactive filter media. <i>Chemosphere</i> , 2020 , 252, 126607	8.4	11
54	Machine learning modeling and analysis of biohydrogen production from wastewater by dark fermentation process. <i>Bioresource Technology</i> , 2022 , 343, 126111	11	11
53	Effective remediation of heavy metals in contaminated soil by electrokinetic technology incorporating reactive filter media. <i>Science of the Total Environment</i> , 2021 , 794, 148668	10.2	11
52	Techno-economic and environmental impact assessment of hydrogen production processes using bio-waste as renewable energy resource. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 156, 111991	16.2	10
51	Enhanced copper removal from contaminated kaolinite soil by electrokinetic process using compost reactive filter media. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123891	12.8	10
50	Caspian seawater desalination and whey concentration through forward osmosis (FO)-reverse osmosis (RO) and FO-FO-RO hybrid systems: Experimental and theoretical study. <i>Journal of Water Process Engineering</i> , 2020 , 37, 101492	6.7	9
49	Theoretical study on feed water designs to reverse osmosis pressure vessel. <i>Desalination</i> , 2013 , 326, 1-9	10.3	9
48	Comparison of dual stage ultrafiltration and hybrid ultrafiltration-forward osmosis process for harvesting microalgae (<i>Tetraselmis</i> sp.) biomass. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 157, 108112	3.7	9
47	Comparison of Nanofiltration with Reverse Osmosis in Reclaiming Tertiary Treated Municipal Wastewater for Irrigation Purposes. <i>Membranes</i> , 2021 , 11,	3.8	9
46	Process design of a treatment system to reduce conductivity and ammoniacal nitrogen content of landfill leachate. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100806	6.7	8
45	Optimization of a Small Wind Turbine for a Rural Area: A Case Study of Deniliquin, New South Wales, Australia. <i>Energies</i> , 2020 , 13, 2292	3.1	8
44	Dual stage PRO power generation from brackish water brine and wastewater effluent feeds. <i>Desalination</i> , 2016 , 389, 68-77	10.3	8
43	Ultrasound-assisted membrane technologies for fouling control and performance improvement: A review. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102268	6.7	8
42	Novel Thermal Desalination Brine Reject-Sewage Effluent Salinity Gradient for Power Generation and Dilution of Brine Reject. <i>Energies</i> , 2020 , 13, 1756	3.1	7
41	Forward osmosis process for supply of fertilizer solutions from seawater using a mixture of draw solutions. <i>Desalination and Water Treatment</i> , 2016 , 57, 28025-28041		7
40	Pressure retarded osmosis: Advancement, challenges and potential. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101950	6.7	7
39	A conceptual NF/RO arrangement design in the pressure vessel for seawater desalination. <i>Desalination and Water Treatment</i> , 2015 , 54, 624-636		6

38	Aquaporin-graphene interface: relevance to point-of-care device for renal cell carcinoma and desalination. <i>Interface Focus</i> , 2018 , 8, 20170066	3.9	6
37	Enhanced Performance Dual Stage Pressure Retarded Osmosis. <i>Energy Procedia</i> , 2017 , 142, 4182-4197	2.3	6
36	Exploring the use of cheap natural raw materials to reduce the internal concentration polarization in thin-film composite forward osmosis membranes. <i>Chemical Engineering Journal</i> , 2020 , 398, 125483	14.7	6
35	Process simulation of ion exchange desalination treatment of coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2019 , 27, 89-98	6.7	5
34	High-Performance mild annealed CNT/GO-PVA composite membrane for brackish water treatment. <i>Separation and Purification Technology</i> , 2022 , 285, 120361	8.3	4
33	Preparation of fouling resistant and highly perm-selective novel PSf/GO-vanillin nanofiltration membrane for efficient water purification. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126744	12.8	4
32	Dual stage PRO process: impact of the membrane materials of the process performance. <i>Desalination and Water Treatment</i> , 2016 , 57, 6172-6183		3
31	Two-stage FO-BWRO/NF treatment of saline waters. <i>Desalination and Water Treatment</i> , 2016 , 57, 4842-4852		3
30	Impact of membrane orientation on the energy efficiency of dual stage pressure retarded osmosis. <i>Journal of Water Process Engineering</i> , 2019 , 30, 100621	6.7	3
29	Application of buoyancy-power generator for compressed air energy storage using a fluidBir displacement system. <i>Journal of Energy Storage</i> , 2019 , 26, 100926	7.8	3
28	Stability of quantum dot-sensitized solar cells: A review and prospects. <i>Nano Energy</i> , 2022 , 94, 106854	17.1	3
27	Evaluation of machine learning algorithms to predict internal concentration polarization in forward osmosis. <i>Journal of Membrane Science</i> , 2022 , 646, 120257	9.6	3
26	Evaluation of wind resource potential using statistical analysis of probability density functions in New South Wales, Australia. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-18	1.6	3
25	Performance of the Pressure Assisted Forward Osmosis-MSF Hybrid Desalination Plant. <i>Water (Switzerland)</i> , 2021 , 13, 1245	3	3
24	Heterostructures of 2D materials-quantum dots (QDs) for optoelectronic devices: challenges and opportunities. <i>Emergent Materials</i> , 2021 , 4, 901-922	3.5	3
23	Process simulation of high pH reverse osmosis systems to facilitate reuse of coal seam gas associated water. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104122	6.8	2
22	Forward osmosis feasibility and potential future application for desalination 2018 , 35-54		2
21	Osmotic Power Plant: Process Innovation and Future Potential 2018 , 4,		2

20	A facile and efficient approach to increase the magnetic property of MOF-5. <i>Solid State Sciences</i> , 2020 , 106, 106292	3.4	2
19	1 Desalination. <i>Green Chemistry and Chemical Engineering</i> , 2017 , 1-68		2
18	A Hybrid NF-FO-RO Process for the Supply of Irrigation Water from Treated Wastewater: Simulation Study. <i>Membranes</i> , 2021 , 11,	3.8	2
17	Feasibility of HO cleaning for forward osmosis membrane treating landfill leachate. <i>Journal of Environmental Management</i> , 2021 , 294, 113024	7.9	2
16	Nanofiltration separation of highly concentrated multivalent electrolyte draw solution; a pilot plant study. <i>Desalination and Water Treatment</i> , 2016 , 57, 20237-20247		1
15	Development in forward Osmosis-Membrane distillation hybrid system for wastewater treatment. <i>Separation and Purification Technology</i> , 2022 , 286, 120498	8.3	1
14	Improving Formaldehyde Removal from Water and Wastewater by Fenton, Photo-Fenton and Ozonation/Fenton Processes through Optimization and Modeling. <i>Water (Switzerland)</i> , 2021 , 13, 2754	3	1
13	Numerical and Physical Modeling of the Effect of Roughness Height on Cavitation Index in Chute Spillways. <i>International Journal of Civil Engineering</i> , 2020 , 18, 539-550	1.9	1
12	Process design of coal seam gas associated water treatment plants to facilitate beneficial reuse. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104255	6.8	1
11	Brine reject dilution with treated wastewater for indirect desalination. <i>Journal of Cleaner Production</i> , 2021 , 322, 129129	10.3	1
10	Facet dependent catalytic activity of Pd nanocrystals for the remedy of organic Pollutant: A mechanistic study. <i>Applied Surface Science</i> , 2021 , 570, 150775	6.7	1
9	Updated review on emerging technologies for PFAS contaminated water treatment. <i>Chemical Engineering Research and Design</i> , 2022 ,	5.5	1
8	Cobalt/Iron decorated tellurium nanotubes for high energy density supercapacitor. <i>Materials Today Chemistry</i> , 2022 , 24, 100871	6.2	1
7	Impact of hydrodynamic conditions on optimum power generation in dual stage pressure retarded osmosis using spiral-wound membrane. <i>Energy Nexus</i> , 2022 , 5, 100030		0
6	Synthesis of Functionalized Nanomaterial (FNM)Based Catalytic Materials 2021 , 135-168		0
5	Machine learning-based modeling and analysis of PFOS removal from contaminated water by nanofiltration process. <i>Separation and Purification Technology</i> , 2022 , 289, 120775	8.3	0
4	Innovative capacitive/Deionization-degaussing approach for improving adsorption/desorption for macadamia nutshell biochar. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102786	6.7	0
3	Advanced Functional Materials for the Detection of Perfluorinated Compounds in Water. <i>Energy, Environment, and Sustainability</i> , 2022 , 257-269	0.8	

2 Functionalized Nanomaterials (FNMs) for Environmental Applications **2021**, 109-134

1 Polymer-based nano-enhanced forward osmosis membranes **2022**, 471-501