

Ali Altaee

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

3,829
citations

116194

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169272

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all docs

117
docs citations

117
times ranked

3316
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.5	28
2	Machine learning modeling and analysis of biohydrogen production from wastewater by dark fermentation process. <i>Bioresource Technology</i> , 2022, 343, 126111.	4.8	64
3	Evaluation of machine learning algorithms to predict internal concentration polarization in forward osmosis. <i>Journal of Membrane Science</i> , 2022, 646, 120257.	4.1	20
4	High-Performance mild annealed CNT/GO-PVA composite membrane for brackish water treatment. <i>Separation and Purification Technology</i> , 2022, 285, 120361.	3.9	10
5	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.	3.3	2
6	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.	8.2	66
7	Stability of quantum dot-sensitized solar cells: A review and prospects. <i>Nano Energy</i> , 2022, 94, 106854.	8.2	29
8	Development in forward Osmosis-Membrane distillation hybrid system for wastewater treatment. <i>Separation and Purification Technology</i> , 2022, 286, 120498.	3.9	39
9	Polymer-based nano-enhanced forward osmosis membranes. , 2022, , 471-501.		0
10	Machine learning-based modeling and analysis of PFOS removal from contaminated water by nanofiltration process. <i>Separation and Purification Technology</i> , 2022, 289, 120775.	3.9	17
11	Updated review on emerging technologies for PFAS contaminated water treatment. <i>Chemical Engineering Research and Design</i> , 2022, 182, 667-700.	2.7	38
12	Cobalt-iron decorated tellurium nanotubes for high energy density supercapacitor. <i>Materials Today Chemistry</i> , 2022, 24, 100871.	1.7	7
13	Innovative capacitive deionization-degaussing approach for improving adsorption/desorption for macadamia nutshell biochar. <i>Journal of Water Process Engineering</i> , 2022, 47, 102786.	2.6	8
14	Surface modification of nanofiltration membrane with kappa-carrageenan/graphene oxide for leachate wastewater treatment. <i>Journal of Membrane Science</i> , 2022, 659, 120776.	4.1	20
15	Enhanced copper removal from contaminated kaolinite soil by electrokinetic process using compost reactive filter media. <i>Journal of Hazardous Materials</i> , 2021, 402, 123891.	6.5	21
16	Comparison of Nanofiltration with Reverse Osmosis in Reclaiming Tertiary Treated Municipal Wastewater for Irrigation Purposes. <i>Membranes</i> , 2021, 11, 32.	1.4	25
17	Graphene-Based Membranes for Water and Wastewater Treatment: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 3274-3293.	2.4	80
18	A Hybrid NF-FO-RO Process for the Supply of Irrigation Water from Treated Wastewater: Simulation Study. <i>Membranes</i> , 2021, 11, 191.	1.4	11

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19	Performance of the Pressure Assisted Forward Osmosis-MSF Hybrid Desalination Plant. <i>Water (Switzerland)</i> , 2021, 13, 1245.	1.2	7
20	Pressure retarded osmosis: Advancement, challenges and potential. <i>Journal of Water Process Engineering</i> , 2021, 40, 101950.	2.6	23
21	Heterostructures of 2D materials-quantum dots (QDs) for optoelectronic devices: challenges and opportunities. <i>Emergent Materials</i> , 2021, 4, 901-922.	3.2	15
22	Progress in osmotic membrane bioreactors research: Contaminant removal, microbial community and bioenergy production in wastewater. <i>Bioresource Technology</i> , 2021, 330, 124998.	4.8	25
23	Carbon Quantum Dots for Energy Applications: A Review. <i>ACS Applied Nano Materials</i> , 2021, 4, 6515-6541.	2.4	145
24	Feasibility of H ₂ O ₂ cleaning for forward osmosis membrane treating landfill leachate. <i>Journal of Environmental Management</i> , 2021, 294, 113024.	3.8	17
25	Ultrasound-assisted membrane technologies for fouling control and performance improvement: A review. <i>Journal of Water Process Engineering</i> , 2021, 43, 102268.	2.6	21
26	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.	3.9	29
27	Brine reject dilution with treated wastewater for indirect desalination. <i>Journal of Cleaner Production</i> , 2021, 322, 129129.	4.6	5
28	Facet dependent catalytic activity of Pd nanocrystals for the remedy of organic Pollutant: A mechanistic study. <i>Applied Surface Science</i> , 2021, 570, 150775.	3.1	7
29	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.	1.2	7
30	Improved photocatalysis of perfluorooctanoic acid in water and wastewater by Ga ₂ O ₃ /UV system assisted by peroxymonosulfate. <i>Chemosphere</i> , 2020, 239, 124722.	4.2	55
31	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.	6.6	35
32	Visible and UV photocatalysis of aqueous perfluorooctanoic acid by TiO ₂ and peroxymonosulfate: Process kinetics and mechanistic insights. <i>Chemosphere</i> , 2020, 243, 125366.	4.2	77
33	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.	0.9	3
34	Preparation of novel high permeability and antifouling polysulfone-vanillin membrane. <i>Desalination</i> , 2020, 496, 114759.	4.0	32
35	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.	1.8	20
36	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.	3.9	28

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37	Feasibility of brackish water and landfill leachate treatment by GO/MoS ₂ -PVA composite membranes. <i>Science of the Total Environment</i> , 2020, 745, 141088.	3.9	39
38	Nanomaterials in the advancement of hydrogen energy storage. <i>Heliyon</i> , 2020, 6, e04487.	1.4	68
39	Process design of coal seam gas associated water treatment plants to facilitate beneficial reuse. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104255.	3.3	4
40	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.	4.8	38
41	A novel empirical method for predicting concentration polarization in forward osmosis for single and multicomponent draw solutions. <i>Desalination</i> , 2020, 494, 114668.	4.0	22
42	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.	3.3	4
43	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.	2.7	23
44	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.	1.6	17
45	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.	2.6	18
46	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.	4.8	80
47	Recent developments in forward osmosis membranes using carbon-based nanomaterials. <i>Desalination</i> , 2020, 482, 114375.	4.0	118
48	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.	2.6	38
49	A state-of-the-art protocol to minimize the internal concentration polarization in forward osmosis membranes. <i>Desalination</i> , 2020, 480, 114355.	4.0	28
50	Novel Thermal Desalination Brine Reject-Sewage Effluent Salinity Gradient for Power Generation and Dilution of Brine Reject. <i>Energies</i> , 2020, 13, 1756.	1.6	10
51	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.	3.8	74
52	Copper removal from contaminated soil through electrokinetic process with reactive filter media. <i>Chemosphere</i> , 2020, 252, 126607.	4.2	24
53	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.	4.8	59
54	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.	6.6	14

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55	Organic Fouling in Forward Osmosis: A Comprehensive Review. <i>Water (Switzerland)</i> , 2020, 12, 1505.	1.2	33
56	A facile and efficient approach to increase the magnetic property of MOF-5. <i>Solid State Sciences</i> , 2020, 106, 106292.	1.5	9
57	Impact of membrane orientation on the energy efficiency of dual stage pressure retarded osmosis. <i>Journal of Water Process Engineering</i> , 2019, 30, 100621.	2.6	5
58	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.	2.6	37
59	Application of buoyancy-power generator for compressed air energy storage using a fluid-air displacement system. <i>Journal of Energy Storage</i> , 2019, 26, 100926.	3.9	4
60	Optimization of module pressure retarded osmosis membrane for maximum energy extraction. <i>Journal of Water Process Engineering</i> , 2019, 32, 100935.	2.6	25
61	Energy efficiency of hollow fibre membrane module in the forward osmosis seawater desalination process. <i>Journal of Membrane Science</i> , 2019, 587, 117165.	4.1	26
62	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.	3.9	44
63	A Review of Fouling Mechanisms, Control Strategies and Real-Time Fouling Monitoring Techniques in Forward Osmosis. <i>Water (Switzerland)</i> , 2019, 11, 695.	1.2	57
64	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.	2.6	14
65	Evaluation of forward osmosis as a pretreatment process for multi stage flash seawater desalination. <i>Desalination</i> , 2019, 461, 22-29.	4.0	62
66	Modelling and optimization of modular system for power generation from a salinity gradient. <i>Renewable Energy</i> , 2019, 141, 139-147.	4.3	26
67	High-Gradient Magnetic Separator (HGMS) combined with adsorption for nitrate removal from aqueous solution. <i>Separation and Purification Technology</i> , 2019, 212, 650-659.	3.9	27
68	Process simulation of ion exchange desalination treatment of coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2019, 27, 89-98.	2.6	7
69	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.	3.9	233
70	Aquaporin-graphene interface: relevance to point-of-care device for renal cell carcinoma and desalination. <i>Interface Focus</i> , 2018, 8, 20170066.	1.5	31
71	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.	3.9	121
72	Forward osmosis feasibility and potential future application for desalination. , 2018, , 35-54.		2

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73	Dilution of seawater using dewatered construction water in a hybrid forward osmosis system. <i>Journal of Cleaner Production</i> , 2018, 195, 365-373.	4.6	21
74	Osmotic Power Plant: Process Innovation and Future Potential. <i>Recent Advances in Petrochemical Science</i> , 2018, 4, .	0.1	2
75	Energy efficiency of RO and FOâ€‘RO system for high-salinity seawater treatment. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 77-91.	2.1	28
76	Single and dual stage closed-loop pressure retarded osmosis for power generation: Feasibility and performance. <i>Applied Energy</i> , 2017, 191, 328-345.	5.1	38
77	Evaluation the potential and energy efficiency of dual stage pressure retarded osmosis process. <i>Applied Energy</i> , 2017, 199, 359-369.	5.1	28
78	Photocatalytic removal of perfluoroalkyl substances from water and wastewater: Mechanism, kinetics and controlling factors. <i>Chemosphere</i> , 2017, 189, 717-729.	4.2	109
79	Pressure retarded osmosis process for power generation: Feasibility, energy balance and controlling parameters. <i>Applied Energy</i> , 2017, 206, 303-311.	5.1	42
80	Enhanced Performance Dual Stage Pressure Retarded Osmosis. <i>Energy Procedia</i> , 2017, 142, 4182-4197.	1.8	8
81	1 Desalination. <i>Green Chemistry and Chemical Engineering</i> , 2017, , 1-68.	0.0	2
82	Combined influence of temperature and flow rate of feeds on the performance of forward osmosis. <i>Desalination</i> , 2016, 398, 98-105.	4.0	68
83	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.	1.0	9
84	Dual stage PRO power generation from brackish water brine and wastewater effluent feeds. <i>Desalination</i> , 2016, 389, 68-77.	4.0	12
85	Dual stage PRO process: impact of the membrane materials of the process performance. <i>Desalination and Water Treatment</i> , 2016, 57, 6172-6183.	1.0	3
86	Nanofiltration separation of highly concentrated multivalent electrolyte draw solution; a pilot plant study. <i>Desalination and Water Treatment</i> , 2016, 57, 20237-20247.	1.0	1
87	Integration and optimization of pressure retarded osmosis with reverse osmosis for power generation and high efficiency desalination. <i>Energy</i> , 2016, 103, 110-118.	4.5	51
88	Two-stage FO-BWRO/NF treatment of saline waters. <i>Desalination and Water Treatment</i> , 2016, 57, 4842-4852.	1.0	4
89	High recovery rate NFâ€‘FOâ€‘RO hybrid system for inland brackish water treatment. <i>Desalination</i> , 2015, 363, 19-25.	4.0	64
90	Design optimization of high performance dual stage pressure retarded osmosis. <i>Desalination</i> , 2015, 355, 217-224.	4.0	18

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91	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.	2.7	51
92	A conceptual NF/RO arrangement design in the pressure vessel for seawater desalination. <i>Desalination and Water Treatment</i> , 2015, 54, 624-636.	1.0	7
93	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.	4.0	51
94	Pressure retarded osmosis: advancement in the process applications for power generation and desalination. <i>Desalination</i> , 2015, 356, 31-46.	4.0	93
95	Dual stage PRO process for power generation from different feed resources. <i>Desalination</i> , 2014, 352, 118-127.	4.0	23
96	Comparison between Forward Osmosis-Reverse Osmosis and Reverse Osmosis processes for seawater desalination. <i>Desalination</i> , 2014, 336, 50-57.	4.0	139
97	Forward osmosis pretreatment of seawater to thermal desalination: High temperature FO-MSF/MED hybrid system. <i>Desalination</i> , 2014, 339, 18-25.	4.0	56
98	A conceptual design of low fouling and high recovery FO-MSF desalination plant. <i>Desalination</i> , 2014, 343, 2-7.	4.0	39
99	Dual-stage forward osmosis/pressure retarded osmosis process for hypersaline solutions and fracking wastewater treatment. <i>Desalination</i> , 2014, 350, 79-85.	4.0	38
100	Pressure retarded osmosis for power generation and seawater desalination: Performance analysis. <i>Desalination</i> , 2014, 344, 108-115.	4.0	85
101	A novel Forward osmosis membrane pretreatment of seawater for thermal desalination processes. <i>Desalination</i> , 2013, 326, 19-29.	4.0	59
102	Theoretical study on feed water designs to reverse osmosis pressure vessel. <i>Desalination</i> , 2013, 326, 1-9.	4.0	13
103	Computational model for estimating reverse osmosis system design and performance: Part-one binary feed solution. <i>Desalination</i> , 2012, 291, 101-105.	4.0	51
104	Alternative design to dual stage NF seawater desalination using high rejection brackish water membranes. <i>Desalination</i> , 2011, 273, 391-397.	4.0	56
105	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.	1.3	31
106	The feasibility of decontamination of reduced saline sediments from copper using the electrokinetic process. <i>Journal of Environmental Management</i> , 2008, 88, 1611-1618.	3.8	31
107	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> , 0, , 1-18.	1.2	5
108	Limitations of osmotic gradient resource and hydraulic pressure on the efficiency of dual stage PRO process. , 0, 105, 11-22.		2

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109	Evaluation of ultrafiltration and multimedia filtration as pretreatment process for forward osmosis. , 0, 195, 84-92.		2
110	Enhancing performance of the membrane distillation process using air injection zigzag system for water desalination. , 0, 207, 43-50.		2
111	Impact of high turbidity on reverse osmosis: evaluation of pretreatment processes. , 0, 208, 96-103.		1