Thermophysical properties of seawater: A review and n pressure dependence

Desalination

390, 1-24

DOI: 10.1016/j.desal.2016.02.024

Citation Report

#	Article	IF	CITATIONS
1	Quantifying osmotic membrane fouling to enable comparisons across diverse processes. Journal of Membrane Science, 2016, 511, 92-107.	8.2	27
2	On the asymptotic flux of ultrapermeable seawater reverse osmosis membranes due to concentration polarisation. Journal of Membrane Science, 2016, 520, 560-565.	8.2	31
3	Gravity currents down canyons: effects of rotation. Ocean Dynamics, 2016, 66, 1353-1378.	2.2	9
4	Enhanced oil recovery in high temperature carbonates using microemulsions formulated with a new hydrophobic component. Journal of Industrial and Engineering Chemistry, 2016, 39, 136-148.	5.8	32
5	Membrane distillation model based on heat exchanger theory and configuration comparison. Applied Energy, 2016, 184, 491-505.	10.1	97
6	Analytical solutions for aquifer thermal energy storage. Water Resources Research, 2017, 53, 1354-1368.	4.2	9
7	Water recovery from brines and saltâ€saturated solutions: operability and thermodynamic efficiency considerations for desalination technologies. Journal of Chemical Technology and Biotechnology, 2017, 92, 2506-2518.	3.2	28
8	On the present and future economic viability of stand-alone pressure-retarded osmosis. Desalination, 2017, 408, 133-144.	8.2	37
9	Understanding the impact of membrane properties and transport phenomena on the energetic performance of membrane distillation desalination. Journal of Membrane Science, 2017, 539, 458-474.	8.2	100
10	Study of advancement to higher temperature membrane distillation. Desalination, 2017, 419, 88-100.	8.2	40
11	Origin of structural parameter inconsistency in forward osmosis models: A pore-scale CFD study. Desalination, 2017, 421, 47-60.	8.2	18
12	Model-assisted measurements of suspension-feeding flow velocities. Journal of Experimental Biology, 2017, 220, 2096-2107.	1.7	8
13	Entropy generation analysis of electrodialysis. Desalination, 2017, 413, 184-198.	8.2	38
14	Integration of humidification-dehumidification desalination and concentrated photovoltaic-thermal collectors: Energy and exergy-costing analysis. Desalination, 2017, 424, 17-26.	8.2	65
15	Whitecap Coverage Dependence on Wind and Wave Statistics as Observed during SO GasEx and HiWinGS. Journal of Physical Oceanography, 2017, 47, 2211-2235.	1.7	62
16	Optimal design and operation of electrodialysis for brackish-water desalination and for high-salinity brine concentration. Desalination, 2017, 420, 167-182.	8.2	75
17	Modeling of a continuous water desalination process using directional solvent extraction. Desalination, 2017, 420, 114-124.	8.2	27
18	On the second law analysis of a multi-stage spray-assisted low-temperature desalination system. Energy Conversion and Management, 2017, 148, 1306-1316.	9.2	23

#	Article	IF	Citations
19	Modelling CO $2$ -Trapping Mechanisms for Geological Carbon Capture and Storage: Description of Constitutive Relations. , $2017$ , , .		0
20	Thermodynamic analysis of brine management methods: Zero-discharge desalination and salinity-gradient power production. Desalination, 2017, 404, 291-303.	8.2	64
21	Multi Effects Desalination-Mechanical Vapor Compression Powered by Low Temperature Supercritical Organic Rankine Cycle., 2017, , .		1
22	Thermal environment of the Southern Washington region of the Cascadia subduction zone. Journal of Geophysical Research: Solid Earth, 2017, 122, 5852-5870.	3.4	14
23	A Review of Ocean/Sea Subsurface Water Temperature Studies from Remote Sensing and Non-Remote Sensing Methods. Water (Switzerland), 2017, 9, 936.	2.7	41
24	Thermodynamics, Exergy, and Energy Efficiency in Desalination Systems. , 2017, , 127-206.		10
25	Indirect ocean capture of atmospheric CO2: Part II. Understanding the cost of negative emissions. International Journal of Greenhouse Gas Control, 2018, 70, 254-261.	4.6	47
26	On the merits of using multi-stage and counterflow electrodialysis for reduced energy consumption. Desalination, 2018, 439, 1-16.	8.2	48
27	The metabolic cost of swimming and reproduction in harbor porpoises ( <i>Phocoena phocoena</i> ) as predicted by a bioenergetic model. Marine Mammal Science, 2018, 34, 875-900.	1.8	17
28	Water desalination by pervaporation – Comparison of energy consumption. Desalination, 2018, 433, 89-93.	8.2	71
29	Modeling of semibatch air gap membrane distillation. Desalination, 2018, 430, 98-106.	8.2	24
30	Design and modeling of novel low-pressure nanofiltration hollow fiber modules for water softening and desalination pretreatment. Desalination, 2018, 439, 58-72.	8.2	27
31	Photoacoustic technique to measure temperature effects on microbubble viscoelastic properties. Applied Physics Letters, 2018, 112, 111905.	3.3	23
32	Membrane distillation at the water-energy nexus: limits, opportunities, and challenges. Energy and Environmental Science, 2018, 11, 1177-1196.	30.8	740
33	Joint estimation of thermal and mass diffusivities of a solute-solvent system using ANN-GA based inverse framework. International Journal of Thermal Sciences, 2018, 123, 27-41.	4.9	5
34	Experimental study on rheological and thermophysical properties of seawater with surfactant additive – Part II: Surface tension and thermal conductivity. International Journal of Heat and Mass Transfer, 2018, 127, 1367-1379.	4.8	6
35	Integrating desalination with concentrating solar thermal power: AÂNamibian case study. Renewable Energy, 2018, 115, 423-432.	8.9	31
36	Economic Block Model Development for Mining Seafloor Massive Sulfides. Minerals (Basel,) Tj ETQq1 1 0.78431	4 rgBT /Ov	erlock 10 Tf 5

3

#	ARTICLE	IF	CITATIONS
37	Brine heat recovery unit for Multi Effect Desalination (MED) system based on Scheffler Concentrator using shell and coil heat exchanger. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012009.	0.6	0
38	High Pressure Volumetric Properties and Viscosity of Base Oils Used in Automotive Lubricants and Their Modeling. Industrial & Engineering Chemistry Research, 2018, 57, 17266-17275.	3.7	7
39	The Buoyancy of <i>Cryptococcus neoformans</i> Is Affected by Capsule Size. MSphere, 2018, 3, .	2.9	20
40	Economic framework for net power density and levelized cost of electricity in pressure-retarded osmosis. Desalination, 2018, 448, 13-20.	8.2	27
41	A novel multigeneration system driven by a hybrid biogas-geothermal heat source, Part I: Thermodynamic modeling. Energy Conversion and Management, 2018, 177, 535-562.	9.2	68
42	Thermodynamic properties of seawater, ice and humid air: TEOS-10, before and beyond. Ocean Science, 2018, 14, 471-502.	3.4	41
43	Performance Characteristics of a Seawater Ice-Making Device Using a Scraped Surface Double Tube Evaporator. Applied Sciences (Switzerland), 2018, 8, 2063.	2.5	4
44	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle Assisted Low-Temperature Multi Effect Desalination Coupled With Mechanical Vapor Compression. , 2018, , .		1
45	How to select the optimal membrane distillation system for industrial applications. Journal of Membrane Science, 2018, 565, 402-410.	8.2	14
46	1.18 Ocean (Marine) Energy. , 2018, , 733-769.		10
47	High-Pressure Reverse Osmosis for Energy-Efficient Hypersaline Brine Desalination: Current Status, Design Considerations, and Research Needs. Environmental Science and Technology Letters, 2018, 5, 467-475.	8.7	213
48	Energy efficient multi-effect distillation powered by a solar linear Fresnel collector. Energy Conversion and Management, 2018, 171, 576-586.	9.2	45
49	A continuous 4000-year lake-level record of Owens Lake, south-central Sierra Nevada, California, USA. Quaternary Research, 2018, 90, 276-302.	1.7	20
50	Effect of honeycomb porous plate on critical heat flux in saturated pool boiling of artificial seawater. International Journal of Heat and Mass Transfer, 2018, 125, 994-1002.	4.8	14
51	The selection of water property formulae for volume and flow calibration and measurement. Metrologia, 2018, 55, 731-746.	1.2	4
52	Energy considerations associated with increased adoption of seawater desalination in the United States. Desalination, 2018, 445, 213-224.	8.2	36
53	Humidification-dehumidification desalination cycle., 2018,, 227-254.		3
54	Evaluating the potential of superhydrophobic nanoporous alumina membranes for direct contact membrane distillation. Journal of Colloid and Interface Science, 2019, 533, 723-732.	9.4	50

#	Article	IF	CITATIONS
55	Evaporation rates and temperature distributions in fine droplet flash evaporation sprays. International Journal of Thermal Sciences, 2019, 145, 106037.	4.9	18
56	Experimental and mathematical investigations of spray angle and droplet sizes of a flash evaporation desalination system. Powder Technology, 2019, 355, 542-551.	4.2	31
57	Energy Savings in Desalination Technologies: Reducing Entropy Generation by Transport Processes. Journal of Heat Transfer, 2019, 141, .	2.1	10
58	Theoretical analysis of a solar-powered multi-effect distillation integrated with concentrating photovoltaic/thermal system. Desalination, 2019, 468, 114074.	8.2	18
59	Lattice Boltzmann simulation of seawater boiling in the presence of non-condensable gas. International Journal of Heat and Mass Transfer, 2019, 142, 118415.	4.8	9
60	Effect of Alkyl Chain Length on Derived Thermodynamic Properties of 1-Alkyl-3-methylimidizolium Chloride Ionic Liquids and Their Mixtures with Ethanol. Industrial & Engineering Chemistry Research, 2019, 58, 15649-15665.	3.7	2
61	Investigation of a novel scraped surface crystallizer with included ice-pressing section as new purification technology. Separation and Purification Technology, 2019, 228, 115748.	7.9	10
62	Membrane desalination performance governed by molecular reflection at the liquid-vapor interface. International Journal of Heat and Mass Transfer, 2019, 140, 1006-1022.	4.8	13
63	Innovative swirling flow-type microbubble generator for multi-stage DCMD desalination system: Focus on the two-phase flow pattern, bubble size distribution, and its effect on MD performance. Journal of Membrane Science, 2019, 588, 117197.	8.2	26
64	Ocean Dynamics of Outer Solar System Satellites. Geophysical Research Letters, 2019, 46, 8700-8710.	4.0	66
65	Thermodynamic analysis of a novel desalination system assisted with ground source heat exchanger. Energy Conversion and Management, 2019, 200, 112104.	9.2	8
66	Temporally-variable productivity quotients on a coral atoll: Implications for estimates of reef metabolism. Marine Chemistry, 2019, 217, 103707.	2.3	14
67	Sea Spray Aerosol Formation: Laboratory Results on the Role of Air Entrainment, Water Temperature, and Phytoplankton Biomass. Environmental Science & Environmental Science & 2019, 53, 13107-13116.	10.0	36
68	Study of Friction Between Breech Block Carrier and Receiver Assembly in Amphibious Rifle., 2019, , .		1
69	An Integrated Approach for the Assessment of Central Cooling Retrofit Using Variable Speed Drive Pump in Marine Applications. Journal of Marine Science and Engineering, 2019, 7, 253.	2.6	5
70	The erosion—deposition process and associated control mechanisms of the Nanliu River subaqueous delta, Southern China coast. Anthropocene Coasts, 2019, 2, 171-192.	1.5	2
71	Practical aspects of batch RO design for energy-efficient seawater desalination. Desalination, 2019, 470, 114097.	8.2	28
72	Flow simulation and assessment of a salinity gradient solar pond development. Energy Procedia, 2019, 158, 911-917.	1.8	7

#	Article	IF	CITATIONS
73	An experimental study on explosive boiling of superheated droplets in vacuum spray flash evaporation. International Journal of Heat and Mass Transfer, 2019, 144, 118552.	4.8	24
74	Cost and energy requirements of hybrid RO and ED brine concentration systems for salt production. Desalination, 2019, 456, 97-120.	8.2	69
75	Integration of pressure retarded osmosis in the solar ponds for desalination and photo-assisted chloralkali processes: Energy and exergy analysis. Energy Conversion and Management, 2019, 195, 630-640.	9.2	27
76	Impact of dissolved salts on two-phase flow and boiling heat transfer in a natural circulation loop. Chemical Engineering Science, 2019, 206, 463-470.	3.8	15
77	Surface tension of seawater at low temperatures including supercooled region down to – 25 °C. Marine Chemistry, 2019, 213, 13-23.	2.3	5
78	Peak shaving performance of coal-fired power generating unit integrated with multi-effect distillation seawater desalination. Applied Energy, 2019, 250, 175-184.	10.1	49
79	The response of surface buoyancy flux-driven convection to localized mechanical forcing. Experiments in Fluids, 2019, 60, 1.	2.4	1
80	Exergy Analysis of Directional Solvent Extraction Desalination Process. Entropy, 2019, 21, 321.	2.2	13
81	Numerical simulation and optimization of the flash chamber for multi-stage flash seawater desalination. Desalination, 2019, 465, 69-78.	8.2	69
83	Sustainable Hydrogen Production from Offshore Marine Renewable Farms: Techno-Energetic Insight on Seawater Electrolysis Technologies. ACS Sustainable Chemistry and Engineering, 2019, 7, 8006-8022.	6.7	78
84	Measurement of seawater surface tension coefficient based on bubble rising behavior. Measurement: Journal of the International Measurement Confederation, 2019, 138, 332-340.	5.0	6
85	Feasibility investigation of a humidification-dehumidification (HDH) desalination system with thermoelectric generator operated by a salinity-gradient solar pond. Desalination, 2019, 462, 1-18.	8.2	58
86	Cost and energy needs of RO-ED-crystallizer systems for zero brine discharge seawater desalination. Desalination, 2019, 457, 115-132.	8.2	44
87	Three dimensional void distribution measurement of salt-water pool-boiling in 5â€Ã—â€5 bundle geometry with X-ray CT system. Annals of Nuclear Energy, 2019, 129, 207-213.	1.8	10
88	Techno-economic analysis of ion concentration polarization desalination for high salinity desalination applications. Water Research, 2019, 155, 162-174.	11.3	20
89	Capillary-Flow-Optimized Heat Localization Induced by an Air-Enclosed Three-Dimensional Hierarchical Network for Elevated Solar Evaporation. ACS Applied Materials & Samp; Interfaces, 2019, 11, 9974-9983.	8.0	48
90	New Type of Thermal Moisture Sensor for inâ€Textile Measurements. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800765.	1.8	6
92	Temperature Effects and Entropy Generation of Pressure Retarded Osmosis Process. Entropy, 2019, 21, 1158.	2.2	10

#	Article	IF	CITATIONS
93	Energy, environmental and economic assessment of a polygeneration system of local desalination and CCHP. Desalination, 2019, 454, 20-37.	8.2	40
94	Improved performances of vacuum membrane distillation for desalination applications: Materials vs process engineering potentialities. Desalination, 2019, 452, 208-218.	8.2	15
95	Precipitation profile and dryout concentration of sea-water pool-boiling in 5â€Ã—â€5 bundle geometry. Nuclear Engineering and Design, 2019, 341, 38-45.	1.7	2
96	Thermodynamic analysis of an oxy-hydrogen combustor supported solar and wind energy-based sustainable polygeneration system for remote locations. International Journal of Hydrogen Energy, 2020, 45, 3470-3483.	7.1	59
97	Effect of sonication time on the evaporation rate of seawater containing a nanocomposite. Ultrasonics Sonochemistry, 2020, 61, 104817.	8.2	28
98	Optimization of three power and desalination plants and exergy-based economic and CO2 emission cost allocation and comparison. International Journal of Energy and Water Resources, 2020, 4, 13-25.	2.2	4
99	Theoretical guidance for fabricating higher flux hydrophobic/hydrophilic dual-layer membranes for direct contact membrane distillation. Journal of Membrane Science, 2020, 596, 117608.	8.2	19
100	On the sea spray aerosol originated from bubble bursting jets. Journal of Fluid Mechanics, 2020, 886, .	3.4	29
101	Techno-economic analysis of low impact solar brackish water desalination system in the Brazilian Semiarid region. Journal of Cleaner Production, 2020, 248, 119255.	9.3	14
102	CNT–PVDF freestanding sheets for direct solar evaporation toward continuous desalination applications. Journal of Materials Science, 2020, 55, 2860-2869.	3.7	7
103	Multistage pressure-retarded osmosis configurations: A unifying framework and thermodynamic analysis. Desalination, 2020, 476, 114230.	8.2	18
104	Energy, exergy, exergoeconomics, and exergoenvironmental assessment of three brine recycle humidification-dehumidification desalination systems applicable for industrial wastewater treatment. Energy Conversion and Management, 2020, 205, 112349.	9.2	27
105	Performance enhancement of waste heat extraction from generator of a wind turbine for freshwater production via employing various nanofluids. Desalination, 2020, 478, 114244.	8.2	19
106	Solution Density Models as Functions of Sodium Chloride, Hydroxypropyl-β-cyclodextrin, and Temperature (278.15–333.15 K) via Progressive Linear and Stepwise Regression. Journal of Chemical & Linear and Stepwise Regression.	1.9	0
107	Effect of cooling water salinity on the cooling performance of natural draft wet cooling tower. International Journal of Heat and Mass Transfer, 2020, 161, 120257.	4.8	11
108	Ooid Cortical Stratigraphy Reveals Common Histories of Individual Coâ€occurring Sedimentary Grains. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005452.	2.8	10
109	Fluxes of Sediment Beneath Floating Silt Screens due to Density Gradients and Screen Motion. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, 04020010.	1.2	0
110	Mixed Brittle and Viscous Strain Localization in Pelagic Sediments Seaward of the Hikurangi Margin, New Zealand. Tectonics, 2020, 39, e2019TC005965.	2.8	8

#	Article	IF	CITATIONS
111	Exergoeconomic and exergoenvironmental analyses of an off-grid reverse osmosis system with internal combustion engine and waste heat recovery. Chemical Engineering Journal Advances, 2020, 4, 100056.	5.2	14
112	A Comprehensive Review of Saline Water Correlations and Data-Part I: Thermodynamic Properties. Arabian Journal for Science and Engineering, 2020, 45, 8817-8876.	3.0	21
113	Exergy, exergoeconomic and exergy-based emission cost analyses of a coconut husk-fired power and desalination plant. International Journal of Exergy, 2020, 32, 267.	0.4	5
114	A comprehensive framework for thermoeconomic analysis of desalination systems. Energy Conversion and Management, 2020, 222, 113188.	9.2	35
115	Thermal analysis of intraocular electronic display projector visual prosthesis. Numerical Heat Transfer; Part A: Applications, 2020, 78, 706-716.	2.1	3
116	Enhanced solar desalination by delignified wood coated with bimetallic Fe/Pd nanoparticles. Desalination, 2020, 493, 114657.	8.2	66
117	Exergoeconomic optimization of a shell-and-tube heat exchanger. Energy Conversion and Management, 2020, 226, 113462.	9.2	25
118	Can Heating Induce Borehole Closure?. Rock Mechanics and Rock Engineering, 2020, 53, 5715-5744.	5.4	8
119	Reliable and Novel Approach Based on Thermodynamic Property Estimation of Low to High Salinity Aqueous Sodium Chloride Solutions for Water-Energy Nexus Applications. Industrial & Engineering Chemistry Research, 2020, 59, 16029-16042.	3.7	8
120	Humanity Can Still Stop Climate Change by Implementing a New International Climate Agreement and Applying Radical New Technology. Energies, 2020, 13, 6703.	3.1	4
121	An ultraviolet dyegraph for measuring the chemical disturbances of sinking particles and swimming plankton. Limnology and Oceanography: Methods, 2020, 18, 707-716.	2.0	0
122	Exergy and parametric analysis of freeze desalination with reversed vapor compression cycle. Thermal Science and Engineering Progress, 2020, 19, 100583.	2.7	9
123	Non-iterative phase-equilibrium model of the H2O-CO2-NaCl-system for large-scale numerical simulations. Mathematics and Computers in Simulation, 2020, 178, 46-61.	4.4	6
124	Thermodynamic and thermoeconomic analysis of three cascade power plants coupled with RO desalination unit, driven by a salinity-gradient solar pond. Thermal Science and Engineering Progress, 2020, 18, 100562.	2.7	33
125	Performance analysis of a multi-stage humidification–dehumidification desalination system with different salinity levels. Energy Conversion and Management, 2020, 215, 112928.	9.2	19
126	A graphical method for evaluating the thermodynamic feasibility of absorption vapor compression multi-effect thermal desalination systems. Desalination, 2020, 485, 114448.	8.2	3
127	Performance comparison of a natural gas and renewableâ€based power and desalination system for polygeneration., 2020, 10, 678-702.		9
128	The relative insignificance of advanced materials in enhancing the energy efficiency of desalination technologies. Energy and Environmental Science, 2020, 13, 1694-1710.	30.8	206

#	Article	IF	CITATIONS
129	High-Pressure Density, Viscosity, and Modeling of Mixtures of a Poly( $\hat{l}$ ±-olefin) Base Oil Lubricant with Polymeric Additives. Industrial & Engineering Chemistry Research, 2020, 59, 7926-7942.	3.7	5
130	Thermo-Economic Study of a Regenerative Dual-Loop ORC System Coupled to the Main Diesel Engines of a General Support Vessel. Energies, 2020, 13, 2991.	3.1	2
131	The fate of river-borne contaminants in the marine environment: Characterising Regions of Freshwater Influence (ROFIs) and estuary plumes using idealised models and satellite images. Marine Pollution Bulletin, 2020, 156, 111169.	5.0	5
132	Potential water recovery during lithium mining from high salinity brines. Science of the Total Environment, 2020, 720, 137523.	8.0	26
133	Exergy analysis of solar desalination systems based on passive multi-effect membrane distillation. Energy Reports, 2020, 6, 445-454.	5.1	34
134	Thermodynamic analysis of an Energy-Water-Food (Ewf) nexus driven polygeneration system applied to coastal communities. Energy Conversion and Management, 2020, 205, 112432.	9.2	35
135	Origin, composition and relative timing of seaward dipping reflectors on the Pelotas rifted margin. Marine and Petroleum Geology, 2020, $114$ , $104235$ .	3.3	13
136	Thermal-hydraulic characteristics of gasketed plate heat exchangers as a preheater for thermal desalination systems. Energy Conversion and Management, 2020, 205, 112425.	9.2	19
137	Application of the concept of a renewable energy basedâ€polygeneration system for sustainable thermal desalination process—A thermodynamics' perspective. International Journal of Energy Research, 2020, 44, 12344-12362.	4.5	25
138	Effect of salinity on air dissolution, size distribution of microbubbles, and hydrodynamics of a dissolved air flotation (DAF) system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 591, 124547.	4.7	24
139	Performance comparison of two new cogeneration systems for freshwater and power production based on organic Rankine and Kalina cycles driven by salinity-gradient solar pond. Renewable Energy, 2020, 156, 748-767.	8.9	27
140	Emerging investigator series: membrane distillation and high salinity: analysis and implications. Environmental Science: Water Research and Technology, 2020, 6, 1538-1552.	2.4	14
141	Synergy of slippery surface and pulse flow: An anti-scaling solution for direct contact membrane distillation. Journal of Membrane Science, 2020, 603, 118035.	8.2	35
142	Low Computational Cost Model for Convective Heat Transfer From Submarine Cables. IEEE Transactions on Power Delivery, 2021, 36, 760-768.	4.3	8
143	Experimental and theoretical investigation of a high performance PTFE membrane for vacuum-membrane distillation. Journal of Membrane Science, 2021, 617, 118524.	8.2	29
144	Sedimentation and viscosity controls on forearc high growth. Basin Research, 2021, 33, 1384-1406.	2.7	1
145	Small-scale renewable polygeneration system for off-grid applications: Desalination, power generation and space cooling. Applied Thermal Engineering, 2021, 182, 116112.	6.0	21
146	Concentrating solar thermal desalination: Performance limitation analysis and possible pathways for improvement. Applied Thermal Engineering, 2021, 184, 116292.	6.0	17

#	Article	IF	Citations
147	Heat-driven direct reverse osmosis for high-performance and robust ad hoc seawater desalination. Desalination, 2021, 500, 114800.	8.2	8
148	Showerhead feed distribution for optimized performance of large scale membrane distillation modules. Journal of Membrane Science, 2021, 618, 118664.	8.2	15
149	Numerical investigation of effective parameters of falling film evaporation in a verticalâ€tube evaporator. Heat Transfer, 2021, 50, 2764-2792.	3.0	3
150	Experimental investigation of the effect of the spacer and operating conditions on mass transfer in direct contact membrane distillation. Desalination, 2021, 500, 114839.	8.2	19
151	A review of recent advances in humidification and dehumidification desalination technologies using solar energy. Desalination, 2021, 499, 114860.	8.2	59
152	Design and simulation of a heat-driven direct reverse osmosis device for seawater desalination powered by solar thermal energy. Applied Energy, 2021, 284, 116039.	10.1	14
153	Optimizing a Cogeneration sCO <sub>2</sub> CSP–MED Plant Using Neural Networks. ACS ES&T Engineering, 2021, 1, 393-403.	7.6	6
154	Investigation on the thermohaline structure of the stratified wake generated by a propagating submarine. International Journal of Heat and Mass Transfer, 2021, 166, 120808.	4.8	11
155	Thermoeconomic investigation for a multi-stage solar-thermal vacuum membrane distillation system for coastal cities. Desalination, 2021, 498, 114797.	8.2	13
156	A Comprehensive Review of Saline Water Correlations and Data: Part IIâ€"Thermophysical Properties. Arabian Journal for Science and Engineering, 2021, 46, 1941-1979.	3.0	33
157	Hollow fiber membranes for membrane distillation applications. , 2021, , 495-521.		0
158	Meeting Paris agreement objectives will temper seabird winter distribution shifts in the North Atlantic Ocean. Global Change Biology, 2021, 27, 1457-1469.	9.5	16
159	From quasi-incompressible to semi-compressible fluids. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 4069.	1.1	9
160	Combined cooling and power production from geothermal resources., 2021,, 185-205.		0
161	Explosive Submarine Eruptions: The Role of Condensable Gas Jets in Underwater Eruptions. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020969.	3.4	14
162	Adaptive optics correction in natural turbulent waters. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, 587.	1.5	6
163	First isolation and analysis of caesium-bearing microparticles from marine samples in the Pacific coastal area near Fukushima Prefecture. Scientific Reports, 2021, 11, 5664.	3.3	14
164	Passive Permeate-Side-Heated Solar Thermal Membrane Distillation: Extracting Potable Water from Seawater, Surface Water, and Municipal Wastewater at High Single-Stage Solar Efficiencies. ACS ES&T Engineering, 2021, 1, 770-779.	7.6	8

#	Article	IF	CITATIONS
165	Temperature Elevation in the Human Eye Due To Intraocular Projection Prosthesis Device. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	0
166	Precipitation profile and dryout concentration of sea-water pool-boiling in 5Â×Â5 full-height BWR bundle. Nuclear Engineering and Design, 2021, 375, 111083.	1.7	1
167	BER variation of an optical wireless communication system in underwater turbulent medium with any temperature and salinity concentration. Optics Communications, 2021, 485, 126751.	2.1	22
168	Forced Convective Boiling in a Vertical Annular Test Section With Seawater Coolant. Journal of Nuclear Engineering and Radiation Science, 2021, 7, .	0.4	2
169	Multiphysics Modeling and Analysis of a Solar Desalination Process Based on Vacuum Membrane Distillation. Membranes, 2021, 11, 386.	3.0	1
170	A comprehensive simulation and optimization on heat transfer characteristics of subcooled seawater falling film around elliptical tubes. Applied Thermal Engineering, 2021, 189, 116675.	6.0	18
171	Investigation of the pressure vessel lower head potential failure under IVR-ERVC condition during a severe accident scenario in APR1400 reactors. Nuclear Engineering and Design, 2021, 376, 111107.	1.7	17
172	Optimizing the energy recovery section in thermal desalination systems for improved thermodynamic, economic, and environmental performance. International Communications in Heat and Mass Transfer, 2021, 124, 105244.	5.6	26
173	A new pre-concentration scheme for brine treatment of MED-MVC desalination plants towards low-liquid discharge (LLD) with multiple self-superheating. Energy, 2021, 225, 120224.	8.8	12
174	Seasonal and Mesoscale Variability of the Two Atlantic Water Recirculation Pathways in Fram Strait. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017057.	2.6	13
175	Differences in Specific Mass Density Between Dinoflagellate Life Stages and Relevance to Accumulation by Hydrodynamic Processes. Journal of Phycology, 2021, 57, 1492-1503.	2.3	5
176	Development and analysis of a new renewable energy-based industrial wastewater treatment system. Journal of Environmental Management, 2021, 290, 112564.	7.8	4
177	Performance analysis of salt reduction levels in indirect freeze desalination system with and without magnetic field exposure. Desalination, 2021, 508, 115021.	8.2	11
178	Extreme flow simulations reveal skeletal adaptations of deep-sea sponges. Nature, 2021, 595, 537-541.	27.8	64
179	Feasibility study of a new solar based trigeneration system for fresh water, cooling, and electricity production. International Journal of Energy Research, 2021, 45, 19500-19508.	4.5	4
180	Monovalent selective electrodialysis: Modelling multi-ionic transport across selective membranes. Water Research, 2021, 199, 117171.	11.3	16
181	Empirical Approach Using Acoustic Doppler Current Profilers for Determining Particle Size Distributions in Estuaries with Highly Concentrated Suspended Matter. Journal of Hydraulic Engineering, 2021, 147, .	1.5	2
182	A comparison between average and local thermal evaluations to improve the performance of a direct contact membrane distillation for the solar desalination purposes. Journal of Thermal Analysis and Calorimetry, $0, 1$ .	3.6	0

#	Article	IF	CITATIONS
183	Freezing desalination: Heat and mass validated modeling and experimental parametric analyses. Case Studies in Thermal Engineering, 2021, 26, 101189.	5.7	14
184	Traditional Chinese Medicine Extract Properties Incorporated Energy Analysis for Membrane Concentration Processes. Membranes, 2021, 11, 673.	3.0	4
185	Energy, exergy and economic analysis of offshore regasification systems. International Journal of Energy Research, 2021, 45, 20835.	4.5	3
186	Scalable Slippery Omniphobic Covalently Attached Liquid Coatings for Flow Fouling Reduction. ACS Applied Materials & Diterfaces, 2021, 13, 38666-38679.	8.0	20
187	Study of flow effects on temperatureâ€controlled radiofrequency ablation using phantom experiments and forward simulations. Medical Physics, 2021, 48, 4754-4768.	3.0	2
188	Adaptation to a Viscous Snowball Earth Ocean as a Path to Complex Multicellularity. American Naturalist, 2021, 198, 590-609.	2.1	8
189	Performance Analysis of Solar Thermal Powered Supercritical Organic Rankine Cycle-Assisted Low-Temperature Multi-Effect Desalination Coupled With Mechanical Vapor Compression. Journal of Solar Energy Engineering, Transactions of the ASME, 2022, 144, .	1.8	2
190	Exergoeconomic and Normalized Sensitivity Analysis of Plate Heat Exchangers: A Theoretical Framework with Application. , 0, , .		1
191	A framework for blue energy enabled energy storage in reverse osmosis processes. Desalination, 2021, 511, 115088.	8.2	7
192	Mixing in the Tyrrhenian Interior Due to Thermohaline Staircases. Frontiers in Marine Science, 2021, 8,	2.5	1
193	An exergoeconomic and normalized sensitivity based comprehensive investigation of a hybrid power-and-water desalination system. Sustainable Energy Technologies and Assessments, 2021, 47, 101463.	2.7	3
194	Study of the application of PCM to thermal insulation of UUV hulls using Network Simulation Method. AEJ - Alexandria Engineering Journal, 2021, 60, 4627-4637.	6.4	9
195	Modeling of crystallization fouling on a horizontal-tube falling-film evaporator for thermal desalination. International Journal of Heat and Mass Transfer, 2021, 178, 121596.	4.8	8
196	A multigeneration cascade system using ground-source energy with cold recovery: 3E analyses and multi-objective optimization. Energy, 2021, 233, 121185.	8.8	66
197	Spatial distribution and consequences of contaminants in harbour sediments – A case study from Richards Bay Harbour, South Africa. Marine Pollution Bulletin, 2021, 172, 112764.	5.0	7
198	Exergoeconomic assessment and optimization of a double effect absorption chiller integrated with a humidification-dehumidification desalination system. Energy Conversion and Management, 2021, 247, 114766.	9.2	14
199	Potentialities of thermal responsive polymer in forward osmosis (FO) process for water desalination. Desalination, 2021, 519, 115311.	8.2	9
200	Development and evaluation of a novel combined absorption-based energy storage and thermal desalination system driven by unstable low-grade heat. Desalination, 2021, 520, 115348.	8.2	6

#	Article	IF	CITATIONS
201	Ocean Thermal Energy Converters. , 2022, , 161-185.		0
202	A novel hybrid adsorption heat transformer – multi-effect distillation (AHT-MED) system for improved performance and waste heat upgrade. Applied Energy, 2022, 305, 117744.	10.1	18
203	Distributed vacuum membrane distillation driven by direct-solar heating at ultra-low temperature. Energy, 2022, 239, 121891.	8.8	18
204	Design and Evaluation of a New Solar Tower-Based Multi-generation System: Part II, Exergy and Exergoeconomic Modeling., 2020,, 103-120.		6
205	The Enigma of Neoproterozoic Giant Ooidsâ€"Fingerprints of Extreme Climate?. Geophysical Research Letters, 2020, 47, e2019GL086146.	4.0	15
206	Minimum size for the top jet drop from a bursting bubble. Physical Review Fluids, 2018, 3, .	2.5	58
207	Metrics Matter: Accurately Defining Energy Efficiency in Desalination. Journal of Heat Transfer, 2020, 142, .	2.1	7
208	Spatial power spectrum of natural water turbulence with any average temperature, salinity concentration, and light wavelength. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1614.	1.5	35
209	Wide-range Prandtl/Schmidt number power spectrum of optical turbulence and its application to oceanic light propagation. Optics Express, 2019, 27, 27807.	3.4	26
210	Scale formation mechanisms and its control by antiscalants in FO membrane under low temperature conditions., 0, 157, 349-359.		2
211	Temperature effects on salinity gradient energy harvesting and utilized membrane properties – Experimental and numerical investigation. Sustainable Energy Technologies and Assessments, 2021, 48, 101666.	2.7	1
212	Gaussian process regression to determine water content of methane: Application to methane transport modeling. Journal of Contaminant Hydrology, 2021, 243, 103910.	3.3	10
213	Nemlendirme-Nem Almalı Bir Damıtma Sisteminde GüneÅŸ Enerjisi Kullanımının DeÄŸerlendirilmesi. Ã Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, 2018, 33, 1-10.	‡ukurova 0.1	1
215	Field Control Test of Seawater Slush Ice Refrigeration System with Double-tube Evaporators. Journal of Power System Engineering, 2019, 23, 56-65.	0.4	2
216	Characteristic Analysis of Slurry Ice Maker with a Double Tube according to Sea Water Temperature. Journal of Power System Engineering, 2019, 23, 88-94.	0.4	1
217	Prediction of live formation water densities from petroleum reservoirs with pressure-dependent seawater density correlations. DYNA (Colombia), 2020, 87, 165-172.	0.4	O
218	Optimal Receiver Configuration Of Short-Baseline Localisation Systems Using Particle Swarm Optimisation. , 2020, , .		2
219	A REVIEW OF HUMIDIFICATION-DEHUMIDIFICATION DESALINATION SYSTEMS. International Journal of Research -GRANTHAALAYAH, 2020, 8, 290-311.	0.1	2

#	Article	IF	CITATIONS
221	Sensitivity analysis and optimization to reduce dry weight and footprint of FPSO processing plants in a high CO2 oil field. Computers and Chemical Engineering, 2022, 156, 107576.	3.8	2
222	Physical Analysis of Keeping Freshness of Fish Using Seawater Slurry Ice. Journal of Power System Engineering, 2019, 23, 66-74.	0.4	1
223	Direct inference of first-year sea ice thickness using broadband acoustic backscattering. Journal of the Acoustical Society of America, 2020, 147, 824-838.	1.1	2
224	A Study on the Performance Characteristics of Scraper Type Sea Water Ice Maker. Journal of Power System Engineering, 2021, 25, 37-42.	0.3	0
225	The most common habitable planets – II. Salty oceans in low-mass habitable planets and global climate evolution. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2401-2416.	4.4	0
226	Modern Use of Water Produced by Purification of Municipal Wastewater: A Case Study. Energies, 2021, 14, 7610.	3.1	2
227	Proposal of a new low-temperature thermodynamic cycle: 3E analysis and optimization of a solar pond integrated with fuel cell and thermoelectric generator. Journal of Cleaner Production, 2022, 331, 129908.	9.3	29
228	Numerical Flow Modeling of Artificial Ocean Upwelling. Frontiers in Marine Science, 2022, 8, .	2.5	3
229	A full physics algorithm to retrieve nighttime sea surface temperature with IASI: Toward an independent homogeneous long time-series for climate studies. Remote Sensing of Environment, 2022, 269, 112838.	11.0	5
230	Passive solar stills coupled with Fresnel lens and phase change material for sustainable solar desalination in the tropics. Journal of Cleaner Production, 2022, 334, 130279.	9.3	30
231	Effects of sour oilfield produced water on direct contact membrane distillation systems. Materials Chemistry and Physics, 2022, 277, 125593.	4.0	1
232	Desalination metamodels and a framework for cross-comparative performance simulations. Desalination, 2022, 525, 115474.	8.2	2
233	Gypsum scaling in membrane distillation: Impacts of temperature and vapor flux. Desalination, 2022, 525, 115499.	8.2	12
234	Hierarchically structured evaporator with integrated water supply and evaporation layers to retard salt accumulation. International Journal of Heat and Mass Transfer, 2022, 185, 122447.	4.8	19
235	Deep-subaqueous implosive volcanism at West Mata seamount, Tonga. Earth and Planetary Science Letters, 2022, 578, 117328.	4.4	3
236	Proposing an Ultrapure Water Unit Coupled to an Existing Reverse Osmosis Desalination Plant and its Exergy Analysis. International Journal of Thermodynamics, 2022, 25, 39-52.	1.0	3
237	Ranking of potential hazards from microplastics polymers in the marine environment. Journal of Hazardous Materials, 2022, 429, 128399.	12.4	81
238	Heat and mass transfer analysis and optimization of freeze desalination utilizing cold energy of LNG leaving a power generation cycle. Desalination, 2022, 527, 115595.	8.2	12

#	Article	IF	CITATIONS
239	A hidden cost of mucus production by phytoplankton: Viscosity hinders nutrient uptake. Limnology and Oceanography Letters, 2022, 7, 261-268.	3.9	1
240	Characteristics of air–liquid heat and mass transfer in a bubble column humidifier. Applied Thermal Engineering, 2022, 209, 118240.	6.0	8
241	The second law analysis of a humidification-dehumidification desalination system using M-cycle. Sustainable Energy Technologies and Assessments, 2022, 52, 102141.	2.7	2
242	Sensitivity of Seaâ€Surface Enthalpy and Momentum Fluxes to Sea Spray Microphysics. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	5
243	Quantitative evaluation of the roles of ocean chemistry and climate on ooid size across the Phanerozoic: Global versus local controls. Sedimentology, 2022, 69, 2486-2506.	3.1	16
244	Computational model and simulation of DCMD desalination systems with heat recovery. Desalination, 2022, 533, 115769.	8.2	6
245	Modelling and Parametric Analysis of a Brine Treatment Unit Using a High-Temperature Heat Pump and a Vacuum Evaporator. Applied Sciences (Switzerland), 2022, 12, 4542.	2.5	0
246	Low-Cost Resistive Microfluidic Salinity Sensor for High-Precision Detection of Drinking Water Salt Levels. ACS Omega, 2022, 7, 15529-15539.	3.5	5
247	Leakage From Coexisting Geologic Forcing and Injectionâ€Induced Pressurization: A Semiâ€Analytical Solution for Multilayered Aquifers With Multiple Wells. Water Resources Research, 2022, 58, .	4.2	1
248	Thermal energy storage in desalination systems: State of the art, challenges and opportunities. Journal of Energy Storage, 2022, 52, 104799.	8.1	8
249	Inadequacy of Current Approaches for Characterizing Membrane Transport Properties at High Salinities. SSRN Electronic Journal, 0, , .	0.4	0
250	Oil Spill Modeling for the Mariner Oil Field, East of Shetland, United Kingdom, North Sea. Journal of Environmental Engineering, ASCE, 2022, 148, .	1.4	1
251	Energy and Exergy Analysis of Multi-Stage Vacuum Membrane Distillation Integrated with Mechanical Vapor Compression. SSRN Electronic Journal, 0, , .	0.4	0
252	Observations of submesoscale eddy-driven heat transport at an ice shelf calving front. Communications Earth & Environment, 2022, 3, .	6.8	11
253	Numerical simulation of temperature variation in water layer induced by thermal jet in weak stratified environment. AIP Advances, 2022, 12, 065222.	1.3	1
254	Fouling mechanism in airblast atomizers and its suppression for water desalination. Water Research, 2022, 221, 118726.	11.3	1
255	Evolutions of the electromagnetic signatures induced by the propagating wake behind a submerged body. International Journal of Heat and Mass Transfer, 2022, 194, 123105.	4.8	5
256	Coastal groundwater model calibration using filtered and amplified hydraulic information retained in the freshwater–saltwater interface. Hydrogeology Journal, 2022, 30, 1551-1567.	2.1	5

#	Article	IF	Citations
257	What Controls the Largeâ€Scale Efficiency of Carbon Transfer Through the Ocean's Mesopelagic Zone? Insights From a New, Mechanistic Model (MSPACMAM). Global Biogeochemical Cycles, 2022, 36, .	4.9	9
258	Process simulation and analysis of highâ€pressure reverse osmosis (HPRO) in the treatment and utilization of desalination brine (saline wastewater). International Journal of Energy Research, 2022, 46, 23083-23094.	4.5	34
259	Opportunities and Challenges in Passive Thermal-Fluid and Energy Systems. Journal of Heat Transfer, 2022, , .	2.1	0
260	Use of hyperspectral sounders to retrieve daytime sea-surface temperature from mid-infrared radiances: Application to IASI. Remote Sensing of Environment, 2022, 280, 113171.	11.0	3
261	Absolute salinity determination by oscillation-type densimetry and refractometry. International Journal of Metrology and Quality Engineering, 2022, 13, 10.	1.0	0
262	Performance and economic analysis of hybrid solar collectorsâ€powered integrated adsorption/reverse osmosis multigeneration system. International Journal of Energy Research, 2022, 46, 19414-19437.	4.5	10
263	Mapping of a Novel Zero-Liquid Discharge Desalination System Based on Humidification–Dehumidification onto the Field of Existing Desalination Technologies. Water (Switzerland), 2022, 14, 2688.	2.7	1
264	Analysis of effective thermal conductivity and tortuosity modeling in membrane distillation simulation. Micro and Nano Engineering, 2022, 17, 100165.	2.9	2
265	Fluid-Structure Interaction Analyses for Hydro-Elastic Tailoring of a Windsurfer Fin. Journal of Marine Science and Engineering, 2022, 10, 1371.	2.6	0
266	Saline Diffusion Modeling for Sodium Chloride Aqueous Solutions: Freezing for Desalination Purposes. Separations, 2022, 9, 272.	2.4	3
267	Experimental investigation and theoretical evaluation on the leakage mechanisms of seawater hydraulic axial piston pump under sea depth circumstance. Engineering Failure Analysis, 2022, 142, 106848.	4.0	7
268	Development and long-term evolution of density staircases in stirred stratified turbulence. Physical Review Fluids, 2022, 7, .	2.5	1
269	Assessment of seasonal Borehole Thermal Energy Storage in the seawater intrusion region of a carbonate aquifer. Geothermics, 2022, 106, 102581.	3.4	2
270	A Physicochemical Consideration of Prebiotic Microenvironments for Self-Assembly and Prebiotic Chemistry. Life, 2022, 12, 1595.	2.4	8
271	Thermal Performance and Water Production in a Solar Still With an Energy Storage Material Under Different Concentrations of Salt. Journal of Solar Energy Engineering, Transactions of the ASME, 2023, 145, .	1.8	5
272	Lithological structure of western Pacific lithosphere reconstructed from mantle xenoliths in a petit-spot volcano. Progress in Earth and Planetary Science, 2022, 9, .	3.0	3
273	Depth dependence of power spectrum in underwater turbulence. Physica Scripta, 0, , .	2.5	0
274	Modulation of Bubbleâ€Mediated CO <sub>2</sub> Gas Transfer Due To Waveâ€Current Interactions. Geophysical Research Letters, 2022, 49, .	4.0	4

#	Article	IF	CITATIONS
275	Performance Analysis of an Eductor-Based Membrane Distillation Unit. Water (Switzerland), 2022, 14, 3624.	2.7	1
276	Energy and exergy analysis of multi-stage vacuum membrane distillation integrated with mechanical vapor compression. Separation and Purification Technology, 2023, 306, 122568.	7.9	15
277	Applications and limitations of portable density meter measurements of Na-Ca-Mg-K-Cl-SO4 brines. Chemical Geology, 2023, 616, 121240.	3.3	0
278	Thermal characteristics of vehicle wake induced by the interaction between hydrodynamic wake and cold skin. Ocean Engineering, 2023, 267, 113272.	4.3	3
279	Inadequacy of current approaches for characterizing membrane transport properties at high salinities. Journal of Membrane Science, 2023, 668, 121246.	8.2	1
280	Surrogate modeling of pressure loss & mass transfer in membrane channels via coupling of computational fluid dynamics and machine learning. Desalination, 2023, 548, 116241.	8.2	4
281	Heat-localized solar evaporation: Transport processes and applications. Nano Energy, 2023, 107, 108086.	16.0	27
282	Energy performance assessment of Sea Water Air Conditioning (SWAC) as a solution toward net zero carbon emissions: A case study in French Polynesia. Energy Reports, 2023, 9, 437-446.	5.1	5
283	Explicitly controlling electrical current density overpowers the kinetics of the chlorine evolution reaction and increases the hydrogen production during seawater electrolysis. International Journal of Hydrogen Energy, 2023, 48, 4994-5000.	7.1	2
284	A Reevaluation of Cryolava Flow Evolution: Assumptions, Physical Properties, and Conceptualization. Journal of Geophysical Research E: Planets, 2023, 128, .	3.6	1
285	A novel spiral wound module design for harvesting salinity gradient energy using pressure retarded osmosis. Renewable Energy, 2023, 203, 542-553.	8.9	3
286	The void fraction and frictional pressure drop of upward two-phase flow under high pressure brine condition. Chemical Engineering Science, 2023, 268, 118399.	3.8	1
287	Experimental investigation of simultaneous hydrogen production and desalination via electrodialysis process. International Journal of Hydrogen Energy, 2023, 48, 39002-39018.	7.1	4
288	Development and calibration of a model for packed bed marine scrubbers aboard ocean-going vessels. Chemical Engineering Research and Design, 2023, 191, 50-65.	5.6	0
289	Elevation-distributed multistage reverse osmosis desalination with seawater pumped storage. Applied Water Science, 2023, 13, .	5.6	3
290	How temperatures derived from fluid flow and heat transport models impact predictions of deep geothermal potentials: the "heat in place―method applied to Hesse (Germany). Geothermal Energy, 2023, 11, .	1.9	О
291	CFD modeling of crystallization fouling with CO2 desorption incorporated for a falling-film evaporator in thermal desalination. Desalination, 2023, 553, 116456.	8.2	5
292	An inversion method of subsurface thermohaline field based on deep learning and remote sensing data. International Journal of Remote Sensing, 0, , 1-24.	2.9	О

#	Article	IF	CITATIONS
293	A high-efficiency multi-function system based on thermal desalination and absorption cycle for water, water-cooling or water-heating production. Energy Conversion and Management, 2023, 284, 116962.	9.2	2
294	Ammonia recovery from anaerobic-fermentation liquid digestate with vacuum membrane distillation. Separation and Purification Technology, 2023, 314, 123602.	7.9	3
295	Concise summary of existing correlations with thermophysical properties of seawater with applications: A recent review. Applied Thermal Engineering, 2023, 227, 120404.	6.0	2
296	A dual-mode system for water purification and cooling using a thermal desalination technique coupled to a heat pump unit. Applied Thermal Engineering, 2023, 224, 120096.	6.0	2
297	Water production from a solar desalination system utilizing a high-speed rotary humidifier. Applied Thermal Engineering, 2023, 224, 120150.	6.0	11
298	Numerical Study of Growth of a Vapor Bubble in Superheated Seawater with Time-Varying Pressure. Heat Transfer Engineering, $0$ , $1$ -22.	1.9	0
299	Performance Assessment of Coupled Concentrated Photovoltaic-Thermal and Vacuum Membrane Distillation (CPVT-VMD) System for Water Desalination. Energies, 2023, 16, 1541.	3.1	2
300	Energy and economic performance assessment of a solar-assisted regenerative vacuum membrane desalination system. Applied Thermal Engineering, 2023, 225, 120181.	6.0	3
301	Energy analysis of a small-scale multi-effect distillation system powered by photovoltaic and thermal collectors. Journal of Energy Systems, 2023, 7, 89-105.	1.5	2
302	A wind turbine driven hybrid HDH-MED-MVC desalination system towards minimal liquid discharge. South African Journal of Chemical Engineering, 2023, 44, 356-369.	2.4	3
303	Service life of RC seawall under chloride invasion: A theoretical model incorporating convection-diffusion effect. Ocean Engineering, 2023, 279, 114590.	4.3	3
304	Entangled, Hofmeister effectâ€enhanced macromolecular adhesives for effective bonding in dynamic seawater. Chemistry - A European Journal, 0, , .	3.3	0
305	Tuning the heatâ^'saltâ^'water balance for rapid and scalable solar desalination. Applied Thermal Engineering, 2023, 230, 120667.	6.0	2
306	A recursive Newton method for interpolating seawater density tables. Results in Engineering, 2023, 18, 101133.	5.1	0
307	Thermo-economic assessment and optimization of a multigeneration system powered by geothermal and solar energy. Applied Thermal Engineering, 2023, 230, 120656.	6.0	14
308	Simultaneous transport of freshwater and heat: An application to Chinese northern coastal regions. Energy Conversion and Management, 2023, 291, 117313.	9.2	1
309	Analysis of a spray flash desalination system driven by low-grade waste heat with different intermittencies. Energy, 2023, 277, 127669.	8.8	4
311	Sustainable, decentralized water treatment system fabricated from domestic waste materials and ultrafast-reduced graphene oxide. Journal of Environmental Chemical Engineering, 2023, 11, 110480.	6.7	0

#	Article	IF	CITATIONS
313	Quantifying uncertainty in nanofiltration transport models for enhanced metals recovery. Water Research, 2023, 243, 120325.	11.3	2
314	Maximum column height and optimum storage depth for geological storage of hydrogen. International Journal of Hydrogen Energy, 2023, , .	7.1	1
315	Photocatalytic Seawater Splitting for hydrogen fuel production: Impact of Seawater Components and Accelerating Reagents on the Overall Performance. Sustainable Energy and Fuels, 0, , .	4.9	2
316	Thermally Significant Fluid Seepage Through Thick Sediment on the Juan de Fuca Plate Entering the Cascadia Subduction Zone. Geochemistry, Geophysics, Geosystems, 2023, 24, .	2.5	1
317	Multi-objective optimization and parametric study of a hybrid waste gasification system integrated with reverse osmosis desalination. Chemosphere, 2023, 339, 139759.	8.2	2
319	Speeds of Sound in Binary Mixtures of Water and Carbon Dioxide at Temperatures from 273ÂK to 313ÂK and at Pressures up to 50 MPa. International Journal of Thermophysics, 2023, 44, .	2.1	0
320	Cohesive bond strength of marine aggregates and its role in fragmentation. Frontiers in Marine Science, 0, $10$ , .	2.5	0
321	Microplastics, a Global Issue: Human Exposure through Environmental and Dietary Sources. Foods, 2023, 12, 3396.	4.3	3
323	Advanced 3D multiscale modeling of forward osmosis-membrane distillation integrated designs. Desalination, 2024, 571, 117089.	8.2	1
324	Fluid–Thermal–Structural Analysis of Partial Admission Axial Impulse Turbines With Liquid Jet Impingement Cooling. Journal of Turbomachinery, 2023, 145, .	1.7	0
325	Morphologic, Atmospheric, and Oceanic Drivers Cause Multiâ€√emporal Saltwater Intrusion on a Remote, Sand Island. Water Resources Research, 2023, 59, .	4.2	2
326	Latent Heat of Vaporization. Springer Water, 2023, , 145-154.	0.3	0
327	Thermal Conductivity. Springer Water, 2023, , 229-244.	0.3	0
328	Specific Heat Capacity. Springer Water, 2023, , 47-87.	0.3	0
329	Specific Enthalpy. Springer Water, 2023, , 89-117.	0.3	0
330	Activity Coefficient. Springer Water, 2023, , 245-255.	0.3	0
331	Vapor Pressure. Springer Water, 2023, , 173-205.	0.3	0
332	Surface Tension. Springer Water, 2023, , 265-279.	0.3	0

#	Article	IF	CITATIONS
333	Specific Entropy. Springer Water, 2023, , 119-143.	0.3	0
335	Density. Springer Water, 2023, , 9-45.	0.3	0
336	Calculation of Seawater Density. Theoretical Foundations of Chemical Engineering, 2023, 57, 234-238.	0.7	0
337	Integrated Pumped Hydro Reverse Osmosis System optimization featuring surrogate model development in Reverse Osmosis modeling. Applied Energy, 2023, 352, 121812.	10.1	0
338	Water as a Substance. , 2024, , 15-24.		0
339	Review and Analysis of Heat Transfer in Spacer-Filled Channels of Membrane Distillation Systems. Membranes, 2023, 13, 842.	3.0	0
340	Estimation of thermal input in thermite reaction for innovative wellbore plugging & amp; abandonment techniques. International Communications in Heat and Mass Transfer, 2023, 148, 107071.	5.6	0
341	A review of vacuum solar desalination powered by renewable energy: Recent trends. Journal of Cleaner Production, 2023, 428, 139244.	9.3	1
342	Water column barium sulfate dissolution and shielding by organic matter aggregates: Implications for the pelagic barite proxy. Chemical Geology, 2023, 636, 121637.	3.3	0
343	The role of fresh water in driving ice shelf crevassing, rifting and calving. Earth and Planetary Science Letters, 2023, 624, 118444.	4.4	0
344	Performance investigation of standalone multi-effect mechanical vapor compression desalination system powered by cascade photovoltaic/thermal-photovoltaic solar field-assisted heat pump system. Renewable Energy, 2023, 219, 119568.	8.9	0
345	sCO2 power cycle/reverse osmosis distillation system for water-electricity cogeneration in nuclear powered ships and submarines. Desalination, 2024, 572, 117126.	8.2	1
346	Evaluating the seawater desalination potential of an air-seawater system: through thermodynamic analysis and simulation of an indirect evaporative cooling desalination system. Applied Thermal Engineering, 2024, 238, 121950.	6.0	0
347	Modeling and experimental evaluation of membrane distillation aimed at urine treatment for direct potable reuse in space stations. Desalination, 2024, 572, 117119.	8.2	0
348	A Sea State Dependent Gas Transfer Velocity for CO <sub>2</sub> Unifying Theory, Model, and Field Data. Earth and Space Science, 2023, 10, .	2.6	0
349	Pressure exchanger batch reverse osmosis with zero downtime operation. Desalination, 2024, 574, 117121.	8.2	3
350	Electrothermal interfacial evaporation through carbon-nanostructured composite membranes. Chemosphere, 2024, 349, 140913.	8.2	0
351	Salinity impacts on humidification dehumidification (HDH) desalination systems: review. Environmental Science and Pollution Research, 0, , .	5.3	0

#	Article	IF	CITATIONS
352	Continuum model for extraction and retention in porous media. Physics of Fluids, 2023, 35, .	4.0	2
354	The effect of coolant additives on the vapour explosion behaviour in melt droplet impingement experiments. International Journal of Heat and Mass Transfer, 2024, 221, 125108.	4.8	0
355	On Propagation of OAM Modes Carried by Partially Coherent Laguerre-Gaussian Beams in Weak Oceanic Turbulence with Wide Range Parameters. , 2023, , .		0
356	Droplet supercooling in marine icing tests. Cold Regions Science and Technology, 2024, 219, 104121.	3.5	0
357	A finite element model for concentration polarization and osmotic effects in a membrane channel. International Journal for Numerical Methods in Fluids, 2024, 96, 601-625.	1.6	0
359	Modeling and oblique transmission characteristics of an underwater wireless optical communication channel based on ocean depth layering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2024, 41, 424.	1.5	0
360	Neural Geometrodynamics, Complexity, and Plasticity: A Psychedelics Perspective. Entropy, 2024, 26, 90.	2.2	0
361	Sustainable biomimetic solar distillation with edge crystallization for passive salt collection and zero brine discharge. Nature Communications, 2024, $15$ , .	12.8	0
362	Understanding the phenomena of negative vapor flux in Nanophotonics-Enabled solar membrane distillation. Chemical Engineering Journal, 2024, 483, 149005.	12.7	0
363	A biomimetic orthogonal flow sensor based on an asymmetric optical fiber sensory structure for marine sensing. Bioinspiration and Biomimetics, 2024, 19, 036002.	2.9	0
364	Investigation of the chloride ion transport mechanism in unsaturated concrete considering the nonlinear seepage effect. Construction and Building Materials, 2024, 418, 135383.	7.2	0
365	Thermal circuit model of DC submarine cable considering the influence of seawater property variations. Electric Power Systems Research, 2024, 230, 110268.	3.6	O
366	The influence of steady-state thermal blooming effect on the quality of underwater laser power transmission. AIP Advances, 2024, 14, .	1.3	0
367	Evaluation of osmotic pressured membrane performance in achieving water sustainability. AIP Conference Proceedings, 2024, , .	0.4	0
368	Modeling Framework for Cost Optimization of Process-Scale Desalination Systems with Mineral Scaling and Precipitation. ACS ES&T Engineering, 0, , .	7.6	0
369	Zonostrophic turbulence in the subsurface oceans of the Jovian and Saturnian moons. Icarus, 2024, 415, 116047.	2.5	0
370	Brine concentration using air gap diffusion distillation: A performance model and cost comparison with membrane distillation for high salinity desalination. Desalination, 2024, 580, 117560.	8.2	0