Kim Choon Ng

List of Publications by Year
in descending order

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309 papers	12,385 citations	22099 59 h-index	38300 95 g-index
317 all docs	317 docs citations	317 times ranked	5821 citing authors

#	Article	IF	Citations
1	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. Joule, 2018, 2, 1171-1186.	11.7	527
2	Energy-water-environment nexus underpinning future desalination sustainability. Desalination, 2017, 413, 52-64.	4.0	512
3	Experimental investigation of the silica gelâ€“water adsorption isotherm characteristics. Applied Thermal Engineering, 2001, 21, 1631-1642.	3.0	289
4	Adsorption desalination: An emerging low-cost thermal desalination method. Desalination, 2013, 308, 161-179.	4.0	252
5	Renewable energy-driven innovative energy-efficient desalination technologies. Applied Energy, 2014, 136, 1155-1165.	5.1	240
6	Modeling the performance of two-bed, sillica gel-water adsorption chillers. International Journal of Refrigeration, 1999, 22, 194-204.	1.8	232
7	Adsorption Characteristics of Silica Gel + Water Systems. Journal of Chemical & Engineering Data, 2002, 47, 1177-1181.	1.0	223
8	Waste heat driven dual-mode, multi-stage, multi-bed regenerative adsorption system. International Journal of Refrigeration, 2003, 26, 749-757.	1.8	210
9	Multi effect desalination and adsorption desalination (MEDAD): AÂhybrid desalination method. Applied Thermal Engineering, 2014, 72, 289-297.	3.0	165
10	Transient modeling of a two-bed silica gelâ€“water adsorption chiller. International Journal of Heat and Mass Transfer, 2004, 47, 659-669.	2.5	162
11	Performance investigation of a solar-assisted direct contact membrane distillation system. Journal of Membrane Science, 2013, 427, 345-364.	4.1	152
12	Study on a waste heat-driven adsorption cooling cum desalination cycle. International Journal of Refrigeration, 2012, 35, 685-693.	1.8	151
13	Recent developments in thermally-driven seawater desalination: Energy efficiency improvement by hybridization of the MED and AD cycles. Desalination, 2015, 356, 255-270.	4.0	149
14	Experimental investigation of an adsorption desalination plant using low-temperature waste heat. Applied Thermal Engineering, 2005, 25, 2780-2789.	3.0	141
15	Operational strategy of adsorption desalination systems. International Journal of Heat and Mass Transfer, 2009, 52, 1811-1816.	2.5	139
16	A Universal Isotherm Model to Capture Adsorption Uptake and Energy Distribution of Porous Heterogeneous Surface. Scientific Reports, 2017, 7, 10634.	1.6	130
17	Experimental investigation of activated carbon fibers/ethanol pairs for adsorption cooling system application. Applied Thermal Engineering, 2006, 26, 859-865.	3.0	126
18	Experimental investigation on activated carbonâ€“ethanol pair for solar powered adsorption cooling applications. International Journal of Refrigeration, 2008, 31, 1407-1413.	1.8	126

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19	On the thermodynamic modeling of the isosteric heat of adsorption and comparison with experiments. Applied Physics Letters, 2006, 89, 171901.	1.5	118
20	The maximum temperature difference and polar characteristic of two-stage thermoelectric coolers. Cryogenics, 2002, 42, 273-278.	0.9	116
21	Improved thermodynamic property fields of LiBrâ€“H 2 O solution. International Journal of Refrigeration, 2000, 23, 412-429.	1.8	112
22	Centrifugal chillers: Thermodynamic modelling and a diagnostic case study. International Journal of Refrigeration, 1995, 18, 253-257.	1.8	108
23	Thermodynamic modeling of reciprocating chillers. Journal of Applied Physics, 1994, 75, 2769-2774.	1.1	107
24	Solar-assisted dual-effect adsorption cycle for the production of cooling effect and potable water. International Journal of Low-Carbon Technologies, 2009, 4, 61-67.	1.2	106
25	An experimental investigation on MEDAD hybrid desalination cycle. Applied Energy, 2015, 148, 273-281.	5.1	105
26	Study on an advanced adsorption desalination cycle with evaporatorâ€“condenser heat recovery circuit. International Journal of Heat and Mass Transfer, 2011, 54, 43-51.	2.5	104
27	Multi-bed regenerative adsorption chillerÂâ€” improving the utilization of waste heat and reducing the chilled water outlet temperature fluctuation. International Journal of Refrigeration, 2001, 24, 124-136.	1.8	100
28	Experimental investigation on the optimal performance of Zeoliteâ€“water adsorption chiller. Applied Energy, 2013, 102, 582-590.	5.1	100
29	Thermo-physical properties of silica gel for adsorption desalination cycle. Applied Thermal Engineering, 2013, 50, 1596-1602.	3.0	97
30	A hybrid multi-effect distillation and adsorption cycle. Applied Energy, 2013, 104, 810-821.	5.1	95
31	Numerical simulation and performance investigation of an advanced adsorption desalination cycle. Desalination, 2013, 308, 209-218.	4.0	94
32	Performance of adsorbent-embedded heat exchangers using binder-coating method. International Journal of Heat and Mass Transfer, 2016, 92, 149-157.	2.5	93
33	Experimental and modeling analysis of membrane-based air dehumidification. Separation and Purification Technology, 2015, 144, 114-122.	3.9	91
34	Performance evaluation of an indirect pre-cooling evaporative heat exchanger operating in hot and humid climate. Energy Conversion and Management, 2015, 102, 140-150.	4.4	90
35	Water vapor permeation and dehumidification performance of poly(vinyl alcohol)/lithium chloride composite membranes. Journal of Membrane Science, 2016, 498, 254-262.	4.1	90
36	A standard primary energy approach for comparing desalination processes. Npj Clean Water, 2019, 2, .	3.1	89

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37	Study on dew point evaporative cooling system with counter-flow configuration. Energy Conversion and Management, 2016, 109, 153-165.	4.4	88
38	Pushing desalination recovery to the maximum limit: Membrane and thermal processes integration. Desalination, 2017, 416, 54-64.	4.0	87
39	Predictive and diagnostic aspects of a universal thermodynamic model for chillers. International Journal of Heat and Mass Transfer, 1995, 38, 807-818.	2.5	85
40	Performance analysis of a low-temperature waste heat-driven adsorption desalination prototype. International Journal of Heat and Mass Transfer, 2013, 65, 662-669.	2.5	85
41	Experimental study on performance improvement of a four-bed adsorption chiller by using heat and mass recovery. International Journal of Heat and Mass Transfer, 2006, 49, 3343-3348.	2.5	82
42	Pilot studies on synergetic impacts of energy utilization in hybrid desalination system: Multi-effect distillation and adsorption cycle (MED-AD). Desalination, 2020, 477, 114266.	4.0	80
43	Theoretical Insight of Physical Adsorption for a Single-Component Adsorbent + Adsorbate System: I. Thermodynamic Property Surfaces. Langmuir, 2009, 25, 2204-2211.	1.6	78
44	Experimental investigation of silica gelâ€“water adsorption chillers with and without a passive heat recovery scheme. International Journal of Refrigeration, 2005, 28, 756-765.	1.8	77
45	A second law analysis and entropy generation minimization of an absorption chiller. Applied Thermal Engineering, 2011, 31, 2405-2413.	3.0	76
46	Improved Isotherm Data for Adsorption of Methane on Activated Carbons. Journal of Chemical & Engineering Data, 2010, 55, 2840-2847.	1.0	75
47	Performance evaluation of a zeoliteâ€“water adsorption chiller with entropy analysis of thermodynamic insight. Applied Energy, 2014, 130, 702-711.	5.1	75
48	Isotherms and thermodynamics for the adsorption of n-butane on pitch based activated carbon. International Journal of Heat and Mass Transfer, 2008, 51, 1582-1589.	2.5	73
49	A general model for studying effects of interface layers on thermoelectric devices performance. International Journal of Heat and Mass Transfer, 2002, 45, 5159-5170.	2.5	71
50	Thermodynamic modelling of a solid state thermoelectric cooling device: Temperatureâ€“entropy analysis. International Journal of Heat and Mass Transfer, 2006, 49, 3547-3554.	2.5	70
51	New pool boiling data for water with copper-foam metal at sub-atmospheric pressures: Experiments and correlation. Applied Thermal Engineering, 2006, 26, 1286-1290.	3.0	68
52	On thermodynamics of methane+carbonaceous materials adsorption. International Journal of Heat and Mass Transfer, 2012, 55, 565-573.	2.5	66
53	Evaluation of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. Energy, 2017, 137, 441-448.	4.5	66
54	A study on the kinetics of ethanol-activated carbon fiber: Theory and experiments. International Journal of Heat and Mass Transfer, 2006, 49, 3104-3110.	2.5	65

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55	Study on a dual-mode, multi-stage, multi-bed regenerative adsorption chiller. Renewable Energy, 2006, 31, 2076-2090.	4.3	65
56	Performance investigation of an advanced multi-effect adsorption desalination (MEAD) cycle. Applied Energy, 2015, 159, 469-477.	5.1	64
57	Performance investigation of a waste heat-driven 3-bed 2-evaporator adsorption cycle for cooling and desalination. International Journal of Heat and Mass Transfer, 2016, 101, 1111-1122.	2.5	64
58	An exergy approach to efficiency evaluation of desalination. Applied Physics Letters, 2017, 110, .	1.5	64
59	Desalination processes evaluation at common platform: A universal performance ratio (UPR) method. Applied Thermal Engineering, 2018, 134, 62-67.	3.0	64
60	How Heat and Mass Recovery Strategies Impact the Performance of Adsorption Desalination Plant: Theory and Experiments. Heat Transfer Engineering, 2007, 28, 147-153.	1.2	62
61	Using the condenser effluent from a nuclear power plant for Ocean Thermal Energy Conversion (OTEC). International Communications in Heat and Mass Transfer, 2009, 36, 1008-1013.	2.9	61
62	Fundamental and application aspects of adsorption cooling and desalination. Applied Thermal Engineering, 2016, 97, 68-76.	3.0	59
63	Performance investigation on a 4-bed adsorption desalination cycle with internal heat recovery scheme. Desalination, 2017, 402, 88-96.	4.0	59
64	A zero liquid discharge system integrating multi-effect distillation and evaporative crystallization for desalination brine treatment. Desalination, 2021, 502, 114928.	4.0	59
65	Solar to hydrogen: Compact and cost effective CPV field for rooftop operation and hydrogen production. Applied Energy, 2017, 194, 255-266.	5.1	58
66	Optimization of two-stage thermoelectric coolers with two design configurations. Energy Conversion and Management, 2002, 43, 2041-2052.	4.4	57
67	Adsorption characteristics of water vapor on ferroaluminophosphate for desalination cycle. Desalination, 2014, 344, 350-356.	4.0	57
68	Thermal analysis and performance optimization of a solar hot water plant with economic evaluation. Solar Energy, 2012, 86, 1378-1395.	2.9	55
69	Studying the performance of an improved dew-point evaporative design for cooling application. Applied Thermal Engineering, 2014, 63, 624-633.	3.0	55
70	A general thermodynamic model for absorption chillers: Theory and experiment. Heat Recovery Systems & CHP, 1995, 15, 73-83.	0.4	54
71	Experimental Adsorption Isotherm of Methane onto Activated Carbon at Sub- and Supercritical Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 4961-4967.	1.0	54
72	Study on activated carbon/HFO-1234ze(E) based adsorption cooling cycle. Applied Thermal Engineering, 2013, 50, 1570-1575.	3.0	54

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73	Desalination Processesâ€™ Efficiency and Future Roadmap. Entropy, 2019, 21, 84.	1.1	54
74	Adsorption Thermodynamics of Silica Gelâ^'Water Systems. Journal of Chemical & Engineering Data, 2009, 54, 448-452.	1.0	53
75	Hollow spherical SiO₂ micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. Journal of Materials Chemistry A, 2020, 8, 1887-1895.	5.2	53
76	Synthesis of porous Cu-BTC with ultrasonic treatment: Effects of ultrasonic power and solvent condition. Ultrasonics Sonochemistry, 2016, 29, 186-193.	3.8	52
77	Optimizing chiller operation based on finite-time thermodynamics: universal modeling and experimental confirmation. International Journal of Refrigeration, 1997, 20, 191-200.	1.8	51
78	Water quality assessment of solar-assisted adsorption desalination cycle. Desalination, 2014, 344, 144-151.	4.0	51
79	Forecasting long-term electricity demand for cooling of Singaporeâ€™s buildings incorporating an innovative air-conditioning technology. Energy and Buildings, 2016, 127, 183-193.	3.1	51
80	A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. Energy, 2017, 132, 106-115.	4.5	51
81	Thermodynamic formalism of minimum heat source temperature for driving advanced adsorption cooling device. Applied Physics Letters, 2007, 91, 111902.	1.5	50
82	Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design. International Journal of Heat and Mass Transfer, 1996, 39, 2195-2204.	2.5	49
83	Sunlight to hydrogen conversion: Design optimization and energy management of concentrated photovoltaic (CPV-Hydrogen) system using micro genetic algorithm. Energy, 2016, 99, 115-128.	4.5	49
84	Sustainable desalination using ocean thermocline energy. Renewable and Sustainable Energy Reviews, 2018, 82, 240-246.	8.2	49
85	Specific heat capacity of a single component adsorbent-adsorbate system. Applied Physics Letters, 2007, 90, 171902.	1.5	48
86	Adsorption cooling cycles for alternative adsorbent/adsorbate pairs working at partial vacuum and pressurized conditions. Applied Thermal Engineering, 2009, 29, 793-798.	3.0	48
87	Thermal enhancement of charge and discharge cycles for adsorbed natural gas storage. Applied Thermal Engineering, 2011, 31, 1630-1639.	3.0	48
88	Effect of hygroscopic materials on water vapor permeation and dehumidification performance of poly(vinyl alcohol) membranes. Journal of Applied Polymer Science, 2017, 134, .	1.3	48
89	An improved indirect evaporative cooler experimental investigation. Applied Energy, 2019, 256, 113934.	5.1	48
90	Thermodynamic modeling of an ammoniaâ€“water absorption chiller. International Journal of Refrigeration, 2002, 25, 896-906.	1.8	47

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91	The electro-adsorption chiller: a miniaturized cooling cycle with applications to micro-electronics. International Journal of Refrigeration, 2002, 25, 1025-1033.	1.8	47
92	Experimental and numerical study on a miniature Jouleâ€“Thomson cooler for steady-state characteristics. International Journal of Heat and Mass Transfer, 2002, 45, 609-618.	2.5	47
93	Experimental study on adsorption kinetics of activated carbon/R134a and activated carbon/R507A pairs. International Journal of Refrigeration, 2010, 33, 706-713.	1.8	46
94	Life-cycle cost analysis of adsorption cycles for desalination. Desalination and Water Treatment, 2010, 20, 1-10.	1.0	46
95	A multi evaporator desalination system operated with thermocline energy for future sustainability. Desalination, 2018, 435, 268-277.	4.0	46
96	Diagnostics and optimization of reciprocating chillers: theory and experiment. Applied Thermal Engineering, 1997, 17, 263-276.	3.0	45
97	Thermo-economic analysis and optimization of a vacuum multi-effect membrane distillation system. Desalination, 2020, 483, 114413.	4.0	44
98	Development of a model for spray evaporation based on droplet analysis. Desalination, 2016, 399, 69-77.	4.0	43
99	Adsorption Rate of Ethanol on Activated Carbon Fiber. Journal of Chemical & Engineering Data, 2006, 51, 1587-1592.	1.0	42
100	Theoretical insight of adsorption cooling. Applied Physics Letters, 2011, 98, .	1.5	42
101	Adsorption characteristics of methane on Maxsorb III by gravimetric method. Applied Thermal Engineering, 2014, 72, 200-205.	3.0	42
102	Development and performance analysis of a two-axis solar tracker for concentrated photovoltaics. International Journal of Energy Research, 2015, 39, 965-976.	2.2	42
103	Unsteady-state analysis of a counter-flow dew point evaporative cooling system. Energy, 2016, 113, 172-185.	4.5	42
104	Simulation and development of a multi-leg homogeniser concentrating assembly for concentrated photovoltaic (CPV) system with electrical rating analysis. Energy Conversion and Management, 2016, 116, 58-71.	4.4	42
105	Development of performance model and optimization strategy for standalone operation of CPV-hydrogen system utilizing multi-junction solar cell. International Journal of Hydrogen Energy, 2017, 42, 26789-26803.	3.8	42
106	High-efficiency solar cooling. Solar Energy, 2000, 68, 23-31.	2.9	41
107	A method for the calculation of the adsorbed phase volume and pseudo-saturation pressure from adsorption isotherm data on activated carbon. Physical Chemistry Chemical Physics, 2011, 13, 12559.	1.3	41
108	Sustainable renewable energy seawater desalination using combined-cycle solar and geothermal heat sources. Desalination and Water Treatment, 2013, 51, 1161-1170.	1.0	41

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109	Entropy generation analysis of two-bed, silica gel-water, non-regenerative adsorption chillers. Journal Physics D: Applied Physics, 1998, 31, 1471-1477.	1.3	40
110	Pool Boiling Heat Transfer of Water on Finned Surfaces at Near Vacuum Pressures. Journal of Heat Transfer, 2010, 132, .	1.2	40
111	Bubble-assisted film evaporation correlation for saline water at sub-atmospheric pressures in horizontal-tube evaporator. Applied Thermal Engineering, 2013, 50, 670-676.	3.0	40
112	Double lens collimator solar feedback sensor and master slave configuration: Development of compact and low cost two axis solar tracking system for CPV applications. Solar Energy, 2016, 137, 352-363.	2.9	40
113	A novel integrated thermal-/membrane-based solar energy-driven hybrid desalination system: Concept description and simulation results. Water Research, 2016, 100, 7-19.	5.3	39
114	Adsorption Desalination Quenches Global Thirst. Heat Transfer Engineering, 2008, 29, 845-848.	1.2	38
115	The experimental investigation on the performance of a low temperature waste heat-driven multi-bed desiccant dehumidifier (MBDD) and minimization of entropy generation. Applied Thermal Engineering, 2012, 39, 70-77.	3.0	38
116	Entropy generation analysis of an adsorption cooling cycle. International Journal of Heat and Mass Transfer, 2013, 60, 143-155.	2.5	38
117	A synergetic hybridization of adsorption cycle with the multi-effect distillation (MED). Applied Thermal Engineering, 2014, 62, 245-255.	3.0	38
118	A spatiotemporal indirect evaporative cooler enabled by transiently interceding water mist. Energy, 2021, 217, 119352.	4.5	38
119	Long term hydrogen production potential of concentrated photovoltaic (CPV) system in tropical weather of Singapore. International Journal of Hydrogen Energy, 2016, 41, 16729-16742.	3.8	37
120	Long-term performance potential of concentrated photovoltaic (CPV) systems. Energy Conversion and Management, 2017, 148, 90-99.	4.4	37
121	Analysis of a membrane based air-dehumidification unit for air conditioning in tropical climates. Applied Thermal Engineering, 2013, 59, 370-379.	3.0	36
122	Performance evaluation of the recuperative heat exchanger in a miniature Jouleâ€“Thomson cooler. Applied Thermal Engineering, 2001, 21, 1829-1844.	3.0	35
123	Adsorption Isotherms and Isosteric Enthalpy of Adsorption for Assorted Refrigerants on Activated Carbons. Journal of Chemical & Engineering Data, 2012, 57, 2766-2773.	1.0	35
124	Simultaneous production of cooling and freshwater by an integrated indirect evaporative cooling and humidification-dehumidification desalination cycle. Energy Conversion and Management, 2020, 221, 113169.	4.4	35
125	Thermodynamic formulation of temperatureâ€“entropy diagram for the transient operation of a pulsed thermoelectric cooler. International Journal of Heat and Mass Transfer, 2006, 49, 1845-1850.	2.5	34
126	Performance investigation of advanced adsorption desalination cycle with condenserâ€“evaporator heat recovery scheme. Desalination and Water Treatment, 2013, 51, 150-163.	1.0	34

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127	Approaches to energy efficiency in air conditioning: A comparative study on purge configurations for indirect evaporative cooling. Energy, 2019, 168, 505-515.	4.5	34
128	Molecular engineering of high-performance nanofiltration membranes from intrinsically microporous poly(ether-ether-ketone). Journal of Materials Chemistry A, 2020, 8, 24445-24454.	5.2	34
129	A decentralized water/electricity cogeneration system integrating concentrated photovoltaic/thermal collectors and vacuum multi-effect membrane distillation. Energy, 2021, 230, 120852.	4.5	34
130	Hydrogen at the rooftop: Compact CPV-hydrogen system to convert sunlight to hydrogen. Applied Thermal Engineering, 2018, 132, 154-164.	3.0	32
131	Temperature-entropy formulation of thermoelectric thermodynamic cycles. Physical Review E, 2002, 65, 056111.	0.8	31
132	Theoretical Insight of Physical Adsorption for a Single Component Adsorbent + Adsorbate System: II. The Henry Region. Langmuir, 2009, 25, 7359-7367.	1.6	31
133	A pathway for sustainable conversion of sunlight to hydrogen using proposed compact CPV system. Energy Conversion and Management, 2018, 165, 102-112.	4.4	31
134	Experimental and numerical study of effect of thermal management on storage capacity of the adsorbed natural gas vessel. Applied Thermal Engineering, 2017, 125, 523-531.	3.0	30
135	A self-sustainable solar desalination system using direct spray technology. Energy, 2020, 205, 118037.	4.5	30
136	A hybrid indirect evaporative cooling-mechanical vapor compression process for energy-efficient air conditioning. Energy Conversion and Management, 2021, 248, 114798.	4.4	30
137	How varying condenser coolant flow rate affects chiller performance: thermodynamic modeling and experimental confirmation. Applied Thermal Engineering, 2000, 20, 1149-1159.	3.0	29
138	Heat of Adsorption and Adsorbed Phase Specific Heat Capacity of Methane/Activated Carbon System. Procedia Engineering, 2013, 56, 118-125.	1.2	29
139	A general thermodynamic framework for understanding the behaviour of absorption chillers. International Journal of Refrigeration, 2000, 23, 491-507.	1.8	28
140	Recent Developments in Heat-Driven Silica Gel-Water Adsorption Chillers. Heat Transfer Engineering, 2003, 24, 1-3.	1.2	28
141	The Electro-Adsorption Chiller: Performance Rating of a Novel Miniaturized Cooling Cycle for Electronics Cooling. Journal of Heat Transfer, 2006, 128, 889-896.	1.2	28
142	Energy distribution function based universal adsorption isotherm model for all types of isotherm. International Journal of Low-Carbon Technologies, 2018, 13, 292-297.	1.2	28
143	Thermodynamic analysis of absorption chillers: internal dissipation and process average temperature. Applied Thermal Engineering, 1998, 18, 671-682.	3.0	27
144	Performance modelling of an electro-adsorption chiller. Philosophical Magazine, 2006, 86, 3613-3632.	0.7	27

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145	Future sustainable desalination using waste heat: kudos to thermodynamic synergy. Environmental Science: Water Research and Technology, 2016, 2, 206-212.	1.2	27
146	Geothermal electricity generation and desalination: an integrated process design to conserve latent heat with operational improvements. Desalination and Water Treatment, 2016, 57, 23110-23118.	1.0	27
147	Adsorption Isotherms of CH₄on Activated Carbon from Indonesian Low Grade Coal. Journal of Chemical & Engineering Data, 2011, 56, 361-367.	1.0	26
148	On the Thermodynamics of Refrigerant + Heterogeneous Solid Surfaces Adsorption. Langmuir, 2013, 29, 14494-14502.	1.6	26
149	Experimental investigation of a mechanical vapour compression chiller at elevated chilled water temperatures. Applied Thermal Engineering, 2017, 123, 226-233.	3.0	26
150	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.	2.9	26
151	Entropy generation minimization: A practical approach for performance evaluation of temperature cascaded co-generation plants. Energy, 2012, 46, 493-521.	4.5	25
152	Transport analysis of an air gap membrane distillation (AGMD) process. Desalination and Water Treatment, 2012, 42, 333-346.	1.0	24
153	Entropy production analysis and experimental confirmation of absorption systems. International Journal of Refrigeration, 1997, 20, 179-190.	1.8	23
154	The role of internal dissipation and process average temperature in chiller performance and diagnostics. Journal of Applied Physics, 1998, 83, 1831-1836.	1.1	23
155	An Improved Multievaporator Adsorption Desalination Cycle for Gulf Cooperation Council Countries. Energy Technology, 2017, 5, 1663-1669.	1.8	23
156	Performance investigation of MEMSYS vacuum membrane distillation system in single effect and multi-effect mode. Sustainable Energy Technologies and Assessments, 2019, 34, 9-15.	1.7	23
157	A greener seawater desalination method by direct-contact spray evaporation and condensation (DCSEC): Experiments. Applied Thermal Engineering, 2020, 179, 115629.	3.0	23
158	Adsorption Parameter and Heat of Adsorption of Activated Carbon/HFC-134a Pair. Heat Transfer Engineering, 2010, 31, 910-916.	1.2	21
159	Pressurized adsorption cooling cycles driven by solar/waste heat. Applied Thermal Engineering, 2014, 67, 106-113.	3.0	21
160	Numerical heat and mass transfer analysis of a cross-flow indirect evaporative cooler with plates and flat tubes. Heat and Mass Transfer, 2016, 52, 1765-1777.	1.2	21
161	Studying the performance of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. Science and Technology for the Built Environment, 2017, 23, 127-135.	0.8	21
162	Electrical Rating of Concentrated Photovoltaic (CPV) Systems: Long-Term Performance Analysis and Comparison to Conventional PV Systems. International Journal of Technology, 2016, 7, 189.	0.4	21

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163	Thermodynamic Property Fields of an Adsorbateâ^'Adsorbent System. Langmuir, 2003, 19, 2254-2259.	1.6	20
164	A thermodynamic platform for evaluating the energy efficiency of combined power generation and desalination plants. Npj Clean Water, 2021, 4, .	3.1	20
165	Outdoor testing of evacuated-tube heat-pipe solar collectors. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2000, 214, 23-30.	1.4	19
166	Optimization and thermodynamic understanding of conduction-cooled Peltier current leads. Cryogenics, 2002, 42, 141-145.	0.9	19
167	Experiments for Measuring Adsorption Characteristics of an Activated Carbon Fiber/Ethanol Pair Using a Plate-Fin Heat Exchanger. HVAC and R Research, 2006, 12, 767-782.	0.9	19
168	Calculation of Heat of Adsorption of Gases and Refrigerants on Activated Carbons from Direct Measurements Fitted to the Dubininâ€“Astakhov Equation. Adsorption Science and Technology, 2012, 30, 549-565.	1.5	19
169	A Universal Theoretical Framework in Material Characterization for Tailored Porous Surface Design. Scientific Reports, 2019, 9, 8773.	1.6	19
170	Adsorption desalinationâ€"Principles, process design, and its hybrids for future sustainable desalination. , 2018, , 3-34.		18
171	NEXARTM-coated hollow fibers for air dehumidification. Journal of Membrane Science, 2020, 614, 118450.	4.1	18
172	A novel hybrid adsorption heat transformer â€“ multi-effect distillation (AHT-MED) system for improved performance and waste heat upgrade. Applied Energy, 2022, 305, 117744.	5.1	18
173	Experimental study of a sustainable cooling process hybridizing indirect evaporative cooling and mechanical vapor compression. Energy Reports, 2022, 8, 7945-7956.	2.5	18
174	On the modeling of absorption chillers with external and internal irreversibilities. Applied Thermal Engineering, 1997, 17, 413-425.	3.0	17
175	Experimental Investigation of Multijunction Solar Cell Using Two Axis Solar Tracker. Applied Mechanics and Materials, 0, 819, 536-540.	0.2	17
176	A heat transfer correlation for transient vapor uptake of powdered adsorbent embedded onto the fins of heat exchangers. Applied Thermal Engineering, 2016, 93, 668-677.	3.0	17
177	Performance assessment of oxidants as a biocide for biofouling control in industrial seawater cooling towers. Journal of Industrial and Engineering Chemistry, 2018, 59, 127-133.	2.9	17
178	Adsorption Equilibrium and Kinetics of Gasoline Vapors onto Carbon-Based Adsorbents. Journal of Chemical & Engineering Data, 2008, 53, 41-47.	1.0	16
179	Application of Adsorption Technologies for Energy Efficiency. Heat Transfer Engineering, 2010, 31, 907-909.	1.2	16
180	Case studies of microbubbles in wastewater treatment. Desalination and Water Treatment, 2011, 30, 10-16.	1.0	16

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181	A novel zero-liquid discharge desalination system based on the humidification-dehumidification process: A preliminary study. Water Research, 2021, 207, 117794.	5.3	16
182	Thermodynamic Modeling of Absorption Chiller and Comparison with Experiments. Heat Transfer Engineering, 1999, 20, 42-51.	1.2	15
183	Theoretical and experimental analysis of an absorption chiller. International Journal of Refrigeration, 1994, 17, 351-358.	1.8	14
184	Sustainable Cooling with Hybrid Concentrated Photovoltaic Thermal (CPVT) System and Hydrogen Energy Storage. International Journal of Computational Physics Series, 2018, 1, 40-51.	0.3	14
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