

Kim Choon Ng

List of Publications by Year in descending order

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309
papers

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22153

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times ranked

5821
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D Photothermal Structure toward Improved Energy Efficiency in Solar Steam Generation. <i>Joule</i> , 2018, 2, 1171-1186.	24.0	527
2	Energy-water-environment nexus underpinning future desalination sustainability. <i>Desalination</i> , 2017, 413, 52-64.	8.2	512
3	Experimental investigation of the silica gel-water adsorption isotherm characteristics. <i>Applied Thermal Engineering</i> , 2001, 21, 1631-1642.	6.0	289
4	Adsorption desalination: An emerging low-cost thermal desalination method. <i>Desalination</i> , 2013, 308, 161-179.	8.2	252
5	Renewable energy-driven innovative energy-efficient desalination technologies. <i>Applied Energy</i> , 2014, 136, 1155-1165.	10.1	240
6	Modeling the performance of two-bed, silica gel-water adsorption chillers. <i>International Journal of Refrigeration</i> , 1999, 22, 194-204.	3.4	232
7	Adsorption Characteristics of Silica Gel + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 1177-1181.	1.9	223
8	Waste heat driven dual-mode, multi-stage, multi-bed regenerative adsorption system. <i>International Journal of Refrigeration</i> , 2003, 26, 749-757.	3.4	210
9	Multi effect desalination and adsorption desalination (MEDAD): A hybrid desalination method. <i>Applied Thermal Engineering</i> , 2014, 72, 289-297.	6.0	165
10	Transient modeling of a two-bed silica gel-water adsorption chiller. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 659-669.	4.8	162
11	Performance investigation of a solar-assisted direct contact membrane distillation system. <i>Journal of Membrane Science</i> , 2013, 427, 345-364.	8.2	152
12	Study on a waste heat-driven adsorption cooling cum desalination cycle. <i>International Journal of Refrigeration</i> , 2012, 35, 685-693.	3.4	151
13	Recent developments in thermally-driven seawater desalination: Energy efficiency improvement by hybridization of the MED and AD cycles. <i>Desalination</i> , 2015, 356, 255-270.	8.2	149
14	Experimental investigation of an adsorption desalination plant using low-temperature waste heat. <i>Applied Thermal Engineering</i> , 2005, 25, 2780-2789.	6.0	141
15	Operational strategy of adsorption desalination systems. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1811-1816.	4.8	139
16	A Universal Isotherm Model to Capture Adsorption Uptake and Energy Distribution of Porous Heterogeneous Surface. <i>Scientific Reports</i> , 2017, 7, 10634.	3.3	130
17	Experimental investigation of activated carbon fibers/ethanol pairs for adsorption cooling system application. <i>Applied Thermal Engineering</i> , 2006, 26, 859-865.	6.0	126
18	Experimental investigation on activated carbon-ethanol pair for solar powered adsorption cooling applications. <i>International Journal of Refrigeration</i> , 2008, 31, 1407-1413.	3.4	126

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19	On the thermodynamic modeling of the isosteric heat of adsorption and comparison with experiments. <i>Applied Physics Letters</i> , 2006, 89, 171901.	3.3	118
20	The maximum temperature difference and polar characteristic of two-stage thermoelectric coolers. <i>Cryogenics</i> , 2002, 42, 273-278.	1.7	116
21	Improved thermodynamic property fields of LiBr-H ₂ O solution. <i>International Journal of Refrigeration</i> , 2000, 23, 412-429.	3.4	112
22	Centrifugal chillers: Thermodynamic modelling and a diagnostic case study. <i>International Journal of Refrigeration</i> , 1995, 18, 253-257.	3.4	108
23	Thermodynamic modeling of reciprocating chillers. <i>Journal of Applied Physics</i> , 1994, 75, 2769-2774.	2.5	107
24	Solar-assisted dual-effect adsorption cycle for the production of cooling effect and potable water. <i>International Journal of Low-Carbon Technologies</i> , 2009, 4, 61-67.	2.6	106
25	An experimental investigation on MEDAD hybrid desalination cycle. <i>Applied Energy</i> , 2015, 148, 273-281.	10.1	105
26	Study on an advanced adsorption desalination cycle with evaporator-condenser heat recovery circuit. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 43-51.	4.8	104
27	Multi-bed regenerative adsorption chiller improving the utilization of waste heat and reducing the chilled water outlet temperature fluctuation. <i>International Journal of Refrigeration</i> , 2001, 24, 124-136.	3.4	100
28	Experimental investigation on the optimal performance of Zeolite-water adsorption chiller. <i>Applied Energy</i> , 2013, 102, 582-590.	10.1	100
29	Thermo-physical properties of silica gel for adsorption desalination cycle. <i>Applied Thermal Engineering</i> , 2013, 50, 1596-1602.	6.0	97
30	A hybrid multi-effect distillation and adsorption cycle. <i>Applied Energy</i> , 2013, 104, 810-821.	10.1	95
31	Numerical simulation and performance investigation of an advanced adsorption desalination cycle. <i>Desalination</i> , 2013, 308, 209-218.	8.2	94
32	Performance of adsorbent-embedded heat exchangers using binder-coating method. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 149-157.	4.8	93
33	Experimental and modeling analysis of membrane-based air dehumidification. <i>Separation and Purification Technology</i> , 2015, 144, 114-122.	7.9	91
34	Performance evaluation of an indirect pre-cooling evaporative heat exchanger operating in hot and humid climate. <i>Energy Conversion and Management</i> , 2015, 102, 140-150.	9.2	90
35	Water vapor permeation and dehumidification performance of poly(vinyl alcohol)/lithium chloride composite membranes. <i>Journal of Membrane Science</i> , 2016, 498, 254-262.	8.2	90
36	A standard primary energy approach for comparing desalination processes. <i>Npj Clean Water</i> , 2019, 2, .	8.0	89

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37	Study on dew point evaporative cooling system with counter-flow configuration. <i>Energy Conversion and Management</i> , 2016, 109, 153-165.	9.2	88
38	Pushing desalination recovery to the maximum limit: Membrane and thermal processes integration. <i>Desalination</i> , 2017, 416, 54-64.	8.2	87
39	Predictive and diagnostic aspects of a universal thermodynamic model for chillers. <i>International Journal of Heat and Mass Transfer</i> , 1995, 38, 807-818.	4.8	85
40	Performance analysis of a low-temperature waste heat-driven adsorption desalination prototype. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 662-669.	4.8	85
41	Experimental study on performance improvement of a four-bed adsorption chiller by using heat and mass recovery. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3343-3348.	4.8	82
42	Pilot studies on synergetic impacts of energy utilization in hybrid desalination system: Multi-effect distillation and adsorption cycle (MED-AD). <i>Desalination</i> , 2020, 477, 114266.	8.2	80
43	Theoretical Insight of Physical Adsorption for a Single-Component Adsorbent + Adsorbate System: I. Thermodynamic Property Surfaces. <i>Langmuir</i> , 2009, 25, 2204-2211.	3.5	78
44	Experimental investigation of silica gel-water adsorption chillers with and without a passive heat recovery scheme. <i>International Journal of Refrigeration</i> , 2005, 28, 756-765.	3.4	77
45	A second law analysis and entropy generation minimization of an absorption chiller. <i>Applied Thermal Engineering</i> , 2011, 31, 2405-2413.	6.0	76
46	Improved Isotherm Data for Adsorption of Methane on Activated Carbons. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2840-2847.	1.9	75
47	Performance evaluation of a zeolite-water adsorption chiller with entropy analysis of thermodynamic insight. <i>Applied Energy</i> , 2014, 130, 702-711.	10.1	75
48	Isotherms and thermodynamics for the adsorption of n-butane on pitch based activated carbon. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 1582-1589.	4.8	73
49	A general model for studying effects of interface layers on thermoelectric devices performance. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 5159-5170.	4.8	71
50	Thermodynamic modelling of a solid state thermoelectric cooling device: Temperature-entropy analysis. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3547-3554.	4.8	70
51	New pool boiling data for water with copper-foam metal at sub-atmospheric pressures: Experiments and correlation. <i>Applied Thermal Engineering</i> , 2006, 26, 1286-1290.	6.0	68
52	On thermodynamics of methane+carbonaceous materials adsorption. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 565-573.	4.8	66
53	Evaluation of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. <i>Energy</i> , 2017, 137, 441-448.	8.8	66
54	A study on the kinetics of ethanol-activated carbon fiber: Theory and experiments. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 3104-3110.	4.8	65

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55	Study on a dual-mode, multi-stage, multi-bed regenerative adsorption chiller. Renewable Energy, 2006, 31, 2076-2090.	8.9	65
56	Performance investigation of an advanced multi-effect adsorption desalination (MEAD) cycle. Applied Energy, 2015, 159, 469-477.	10.1	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.	4.8	64
58	An exergy approach to efficiency evaluation of desalination. Applied Physics Letters, 2017, 110, .	3.3	64
59	Desalination processes evaluation at common platform: A universal performance ratio (UPR) method. Applied Thermal Engineering, 2018, 134, 62-67.	6.0	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.	1.9	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.	5.6	61
62	Fundamental and application aspects of adsorption cooling and desalination. Applied Thermal Engineering, 2016, 97, 68-76.	6.0	59
63	Performance investigation on a 4-bed adsorption desalination cycle with internal heat recovery scheme. Desalination, 2017, 402, 88-96.	8.2	59
64	A zero liquid discharge system integrating multi-effect distillation and evaporative crystallization for desalination brine treatment. Desalination, 2021, 502, 114928.	8.2	59
65	Solar to hydrogen: Compact and cost effective CPV field for rooftop operation and hydrogen production. Applied Energy, 2017, 194, 255-266.	10.1	58
66	Optimization of two-stage thermoelectric coolers with two design configurations. Energy Conversion and Management, 2002, 43, 2041-2052.	9.2	57
67	Adsorption characteristics of water vapor on ferroaluminophosphate for desalination cycle. Desalination, 2014, 344, 350-356.	8.2	57
68	Thermal analysis and performance optimization of a solar hot water plant with economic evaluation. Solar Energy, 2012, 86, 1378-1395.	6.1	55
69	Studying the performance of an improved dew-point evaporative design for cooling application. Applied Thermal Engineering, 2014, 63, 624-633.	6.0	55
70	A general thermodynamic model for absorption chillers: Theory and experiment. Heat Recovery Systems & CHP, 1995, 15, 73-83.	0.3	54
71	Experimental Adsorption Isotherm of Methane onto Activated Carbon at Sub- and Supercritical Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 4961-4967.	1.9	54
72	Study on activated carbon/HFO-1234ze(E) based adsorption cooling cycle. Applied Thermal Engineering, 2013, 50, 1570-1575.	6.0	54

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73	Desalination Processesâ€™ Efficiency and Future Roadmap. <i>Entropy</i> , 2019, 21, 84.	2.2	54
74	Adsorption Thermodynamics of Silica Gelâ€™Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 448-452.	1.9	53
75	Hollow spherical SiO ₂ micro-container encapsulation of LiCl for high-performance simultaneous heat reallocation and seawater desalination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1887-1895.	10.3	53
76	Synthesis of porous Cu-BTC with ultrasonic treatment: Effects of ultrasonic power and solvent condition. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 186-193.	8.2	52
77	Optimizing chiller operation based on finite-time thermodynamics: universal modeling and experimental confirmation. <i>International Journal of Refrigeration</i> , 1997, 20, 191-200.	3.4	51
78	Water quality assessment of solar-assisted adsorption desalination cycle. <i>Desalination</i> , 2014, 344, 144-151.	8.2	51
79	Forecasting long-term electricity demand for cooling of Singaporeâ€™s buildings incorporating an innovative air-conditioning technology. <i>Energy and Buildings</i> , 2016, 127, 183-193.	6.7	51
80	A thermodynamic perspective to study energy performance of vacuum-based membrane dehumidification. <i>Energy</i> , 2017, 132, 106-115.	8.8	51
81	Thermodynamic formalism of minimum heat source temperature for driving advanced adsorption cooling device. <i>Applied Physics Letters</i> , 2007, 91, 111902.	3.3	50
82	Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design. <i>International Journal of Heat and Mass Transfer</i> , 1996, 39, 2195-2204.	4.8	49
83	Sunlight to hydrogen conversion: Design optimization and energy management of concentrated photovoltaic (CPV-Hydrogen) system using micro genetic algorithm. <i>Energy</i> , 2016, 99, 115-128.	8.8	49
84	Sustainable desalination using ocean thermocline energy. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 240-246.	16.4	49
85	Specific heat capacity of a single component adsorbent-adsorbate system. <i>Applied Physics Letters</i> , 2007, 90, 171902.	3.3	48
86	Adsorption cooling cycles for alternative adsorbent/adsorbate pairs working at partial vacuum and pressurized conditions. <i>Applied Thermal Engineering</i> , 2009, 29, 793-798.	6.0	48
87	Thermal enhancement of charge and discharge cycles for adsorbed natural gas storage. <i>Applied Thermal Engineering</i> , 2011, 31, 1630-1639.	6.0	48
88	Effect of hygroscopic materials on water vapor permeation and dehumidification performance of poly(vinyl alcohol) membranes. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	48
89	An improved indirect evaporative cooler experimental investigation. <i>Applied Energy</i> , 2019, 256, 113934.	10.1	48
90	Thermodynamic modeling of an ammoniaâ€™water absorption chiller. <i>International Journal of Refrigeration</i> , 2002, 25, 896-906.	3.4	47

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91	The electro-adsorption chiller: a miniaturized cooling cycle with applications to micro-electronics. <i>International Journal of Refrigeration</i> , 2002, 25, 1025-1033.	3.4	47
92	Experimental and numerical study on a miniature Joule-Thomson cooler for steady-state characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 609-618.	4.8	47
93	Experimental study on adsorption kinetics of activated carbon/R134a and activated carbon/R507A pairs. <i>International Journal of Refrigeration</i> , 2010, 33, 706-713.	3.4	46
94	Life-cycle cost analysis of adsorption cycles for desalination. <i>Desalination and Water Treatment</i> , 2010, 20, 1-10.	1.0	46
95	A multi evaporator desalination system operated with thermocline energy for future sustainability. <i>Desalination</i> , 2018, 435, 268-277.	8.2	46
96	Diagnostics and optimization of reciprocating chillers: theory and experiment. <i>Applied Thermal Engineering</i> , 1997, 17, 263-276.	6.0	45
97	Thermo-economic analysis and optimization of a vacuum multi-effect membrane distillation system. <i>Desalination</i> , 2020, 483, 114413.	8.2	44
98	Development of a model for spray evaporation based on droplet analysis. <i>Desalination</i> , 2016, 399, 69-77.	8.2	43
99	Adsorption Rate of Ethanol on Activated Carbon Fiber. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1587-1592.	1.9	42
100	Theoretical insight of adsorption cooling. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	42
101	Adsorption characteristics of methane on Maxsorb III by gravimetric method. <i>Applied Thermal Engineering</i> , 2014, 72, 200-205.	6.0	42
102	Development and performance analysis of a two-axis solar tracker for concentrated photovoltaics. <i>International Journal of Energy Research</i> , 2015, 39, 965-976.	4.5	42
103	Unsteady-state analysis of a counter-flow dew point evaporative cooling system. <i>Energy</i> , 2016, 113, 172-185.	8.8	42
104	Simulation and development of a multi-leg homogeniser concentrating assembly for concentrated photovoltaic (CPV) system with electrical rating analysis. <i>Energy Conversion and Management</i> , 2016, 116, 58-71.	9.2	42
105	Development of performance model and optimization strategy for standalone operation of CPV-hydrogen system utilizing multi-junction solar cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26789-26803.	7.1	42
106	High-efficiency solar cooling. <i>Solar Energy</i> , 2000, 68, 23-31.	6.1	41
107	A method for the calculation of the adsorbed phase volume and pseudo-saturation pressure from adsorption isotherm data on activated carbon. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12559.	2.8	41
108	Sustainable renewable energy seawater desalination using combined-cycle solar and geothermal heat sources. <i>Desalination and Water Treatment</i> , 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. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 1471-1477.	2.8	40
110	Pool Boiling Heat Transfer of Water on Finned Surfaces at Near Vacuum Pressures. <i>Journal of Heat Transfer</i> , 2010, 132, .	2.1	40
111	Bubble-assisted film evaporation correlation for saline water at sub-atmospheric pressures in horizontal-tube evaporator. <i>Applied Thermal Engineering</i> , 2013, 50, 670-676.	6.0	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. <i>Solar Energy</i> , 2016, 137, 352-363.	6.1	40
113	A novel integrated thermal-/membrane-based solar energy-driven hybrid desalination system: Concept description and simulation results. <i>Water Research</i> , 2016, 100, 7-19.	11.3	39
114	Adsorption Desalination Quenches Global Thirst. <i>Heat Transfer Engineering</i> , 2008, 29, 845-848.	1.9	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. <i>Applied Thermal Engineering</i> , 2012, 39, 70-77.	6.0	38
116	Entropy generation analysis of an adsorption cooling cycle. <i>International Journal of Heat and Mass Transfer</i> , 2013, 60, 143-155.	4.8	38
117	A synergetic hybridization of adsorption cycle with the multi-effect distillation (MED). <i>Applied Thermal Engineering</i> , 2014, 62, 245-255.	6.0	38
118	A spatiotemporal indirect evaporative cooler enabled by transiently interceding water mist. <i>Energy</i> , 2021, 217, 119352.	8.8	38
119	Long term hydrogen production potential of concentrated photovoltaic (CPV) system in tropical weather of Singapore. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16729-16742.	7.1	37
120	Long-term performance potential of concentrated photovoltaic (CPV) systems. <i>Energy Conversion and Management</i> , 2017, 148, 90-99.	9.2	37
121	Analysis of a membrane based air-dehumidification unit for air conditioning in tropical climates. <i>Applied Thermal Engineering</i> , 2013, 59, 370-379.	6.0	36
122	Performance evaluation of the recuperative heat exchanger in a miniature Joule-Thomson cooler. <i>Applied Thermal Engineering</i> , 2001, 21, 1829-1844.	6.0	35
123	Adsorption Isotherms and Isotheric Enthalpy of Adsorption for Assorted Refrigerants on Activated Carbons. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2766-2773.	1.9	35
124	Simultaneous production of cooling and freshwater by an integrated indirect evaporative cooling and humidification-dehumidification desalination cycle. <i>Energy Conversion and Management</i> , 2020, 221, 113169.	9.2	35
125	Thermodynamic formulation of temperature-entropy diagram for the transient operation of a pulsed thermoelectric cooler. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 1845-1850.	4.8	34
126	Performance investigation of advanced adsorption desalination cycle with condenser-evaporator heat recovery scheme. <i>Desalination and Water Treatment</i> , 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. <i>Energy</i> , 2019, 168, 505-515.	8.8	34
128	Molecular engineering of high-performance nanofiltration membranes from intrinsically microporous poly(ether-ether-ketone). <i>Journal of Materials Chemistry A</i> , 2020, 8, 24445-24454.	10.3	34
129	A decentralized water/electricity cogeneration system integrating concentrated photovoltaic/thermal collectors and vacuum multi-effect membrane distillation. <i>Energy</i> , 2021, 230, 120852.	8.8	34
130	Hydrogen at the rooftop: Compact CPV-hydrogen system to convert sunlight to hydrogen. <i>Applied Thermal Engineering</i> , 2018, 132, 154-164.	6.0	32
131	Temperature-entropy formulation of thermoelectric thermodynamic cycles. <i>Physical Review E</i> , 2002, 65, 056111.	2.1	31
132	Theoretical Insight of Physical Adsorption for a Single Component Adsorbent + Adsorbate System: II. The Henry Region. <i>Langmuir</i> , 2009, 25, 7359-7367.	3.5	31
133	A pathway for sustainable conversion of sunlight to hydrogen using proposed compact CPV system. <i>Energy Conversion and Management</i> , 2018, 165, 102-112.	9.2	31
134	Experimental and numerical study of effect of thermal management on storage capacity of the adsorbed natural gas vessel. <i>Applied Thermal Engineering</i> , 2017, 125, 523-531.	6.0	30
135	A self-sustainable solar desalination system using direct spray technology. <i>Energy</i> , 2020, 205, 118037.	8.8	30
136	A hybrid indirect evaporative cooling-mechanical vapor compression process for energy-efficient air conditioning. <i>Energy Conversion and Management</i> , 2021, 248, 114798.	9.2	30
137	How varying condenser coolant flow rate affects chiller performance: thermodynamic modeling and experimental confirmation. <i>Applied Thermal Engineering</i> , 2000, 20, 1149-1159.	6.0	29
138	Heat of Adsorption and Adsorbed Phase Specific Heat Capacity of Methane/Activated Carbon System. <i>Procedia Engineering</i> , 2013, 56, 118-125.	1.2	29
139	A general thermodynamic framework for understanding the behaviour of absorption chillers. <i>International Journal of Refrigeration</i> , 2000, 23, 491-507.	3.4	28
140	Recent Developments in Heat-Driven Silica Gel-Water Adsorption Chillers. <i>Heat Transfer Engineering</i> , 2003, 24, 1-3.	1.9	28
141	The Electro-Adsorption Chiller: Performance Rating of a Novel Miniaturized Cooling Cycle for Electronics Cooling. <i>Journal of Heat Transfer</i> , 2006, 128, 889-896.	2.1	28
142	Energy distribution function based universal adsorption isotherm model for all types of isotherm. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 292-297.	2.6	28
143	Thermodynamic analysis of absorption chillers: internal dissipation and process average temperature. <i>Applied Thermal Engineering</i> , 1998, 18, 671-682.	6.0	27
144	Performance modelling of an electro-adsorption chiller. <i>Philosophical Magazine</i> , 2006, 86, 3613-3632.	1.6	27

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145	Future sustainable desalination using waste heat: kudos to thermodynamic synergy. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 206-212.	2.4	27
146	Geothermal electricity generation and desalination: an integrated process design to conserve latent heat with operational improvements. <i>Desalination and Water Treatment</i> , 2016, 57, 23110-23118.	1.0	27
147	Adsorption Isotherms of CH ₄ on Activated Carbon from Indonesian Low Grade Coal. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 361-367.	1.9	26
148	On the Thermodynamics of Refrigerant + Heterogeneous Solid Surfaces Adsorption. <i>Langmuir</i> , 2013, 29, 14494-14502.	3.5	26
149	Experimental investigation of a mechanical vapour compression chiller at elevated chilled water temperatures. <i>Applied Thermal Engineering</i> , 2017, 123, 226-233.	6.0	26
150	Optimizing the energy recovery section in thermal desalination systems for improved thermodynamic, economic, and environmental performance. <i>International Communications in Heat and Mass Transfer</i> , 2021, 124, 105244.	5.6	26
151	Entropy generation minimization: A practical approach for performance evaluation of temperature cascaded co-generation plants. <i>Energy</i> , 2012, 46, 493-521.	8.8	25
152	Transport analysis of an air gap membrane distillation (AGMD) process. <i>Desalination and Water Treatment</i> , 2012, 42, 333-346.	1.0	24
153	Entropy production analysis and experimental confirmation of absorption systems. <i>International Journal of Refrigeration</i> , 1997, 20, 179-190.	3.4	23
154	The role of internal dissipation and process average temperature in chiller performance and diagnostics. <i>Journal of Applied Physics</i> , 1998, 83, 1831-1836.	2.5	23
155	An Improved Multievaporator Adsorption Desalination Cycle for Gulf Cooperation Council Countries. <i>Energy Technology</i> , 2017, 5, 1663-1669.	3.8	23
156	Performance investigation of MEMSYS vacuum membrane distillation system in single effect and multi-effect mode. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 34, 9-15.	2.7	23
157	A greener seawater desalination method by direct-contact spray evaporation and condensation (DCSEC): Experiments. <i>Applied Thermal Engineering</i> , 2020, 179, 115629.	6.0	23
158	Adsorption Parameter and Heat of Adsorption of Activated Carbon/HFC-134a Pair. <i>Heat Transfer Engineering</i> , 2010, 31, 910-916.	1.9	21
159	Pressurized adsorption cooling cycles driven by solar/waste heat. <i>Applied Thermal Engineering</i> , 2014, 67, 106-113.	6.0	21
160	Numerical heat and mass transfer analysis of a cross-flow indirect evaporative cooler with plates and flat tubes. <i>Heat and Mass Transfer</i> , 2016, 52, 1765-1777.	2.1	21
161	Studying the performance of a dehumidifier with adsorbent coated heat exchangers for tropical climate operations. <i>Science and Technology for the Built Environment</i> , 2017, 23, 127-135.	1.7	21
162	Electrical Rating of Concentrated Photovoltaic (CPV) Systems: Long-Term Performance Analysis and Comparison to Conventional PV Systems. <i>International Journal of Technology</i> , 2016, 7, 189.	0.8	21

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163	Thermodynamic Property Fields of an Adsorbate-Adsorbent System. <i>Langmuir</i> , 2003, 19, 2254-2259.	3.5	20
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