

Syed M Zubair

List of Publications by Year in descending order

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175
papers

7,561
citations

61945

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64755

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178
all docs

178
docs citations

178
times ranked

3956
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermophysical properties of seawater: a review of existing correlations and data. <i>Desalination and Water Treatment</i> , 2010, 16, 354-380.	1.0	1,063
2	The potential of solar-driven humidification-dehumidification desalination for small-scale decentralized water production. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1187-1201.	8.2	332
3	Thermodynamic analysis of humidification dehumidification desalination cycles. <i>Desalination and Water Treatment</i> , 2010, 16, 339-353.	1.0	274
4	Entropy Generation Analysis of Desalination Technologies. <i>Entropy</i> , 2011, 13, 1829-1864.	1.1	229
5	Optimum thermal design of humidification dehumidification desalination systems. <i>Desalination</i> , 2014, 349, 10-21.	4.0	189
6	Scaling of reverse osmosis membranes used in water desalination: Phenomena, impact, and control; future directions. <i>Desalination</i> , 2019, 455, 135-157.	4.0	171
7	On the cost of electrodialysis for the desalination of high salinity feeds. <i>Applied Energy</i> , 2014, 136, 649-661.	5.1	143
8	Second law analysis of reverse osmosis desalination plants: An alternative design using pressure retarded osmosis. <i>Energy</i> , 2011, 36, 6617-6626.	4.5	142
9	On exergy calculations of seawater with applications in desalination systems. <i>International Journal of Thermal Sciences</i> , 2011, 50, 187-196.	2.6	137
10	Entropy generation minimization of combined heat and mass transfer devices. <i>International Journal of Thermal Sciences</i> , 2010, 49, 2057-2066.	2.6	132
11	Effect of entropy generation on the performance of humidification-dehumidification desalination cycles. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1837-1847.	2.6	126
12	Thermal design of the humidification dehumidification desalination system: An experimental investigation. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 740-748.	2.5	114
13	Performance limits of zero and single extraction humidification-dehumidification desalination systems. <i>Applied Energy</i> , 2013, 102, 1081-1090.	5.1	113
14	Humidification-dehumidification desalination system operated by a heat pump. <i>Energy Conversion and Management</i> , 2018, 161, 128-140.	4.4	113
15	Performance evaluation of humidification-dehumidification (HDH) desalination systems with and without heat recovery options: An experimental and theoretical investigation. <i>Desalination</i> , 2018, 436, 161-175.	4.0	104
16	Comparison of fouling propensity between reverse osmosis, forward osmosis, and membrane distillation. <i>Journal of Membrane Science</i> , 2018, 556, 352-364.	4.1	101
17	Performance evaluation of a novel hybrid humidification-dehumidification (air-heated) system with an adsorption desalination system. <i>Desalination</i> , 2019, 461, 37-54.	4.0	96
18	Thermodynamic balancing of the humidification dehumidification desalination system by mass extraction and injection. <i>International Journal of Heat and Mass Transfer</i> , 2013, 57, 756-770.	2.5	95

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19	Efficiency and optimization of straight fins with combined heat and mass transfer “ An analytical solution. Applied Thermal Engineering, 2008, 28, 2279-2288.	3.0	93
20	Exergo-economic analysis of humidification-dehumidification (HDH) desalination systems driven by heat pump (HP). Desalination, 2018, 443, 11-25.	4.0	87
21	High-temperature-steam-driven, varied-pressure, humidification-dehumidification system coupled with reverse osmosis for energy-efficient seawater desalination. Energy, 2012, 37, 482-493.	4.5	77
22	Efficiency and optimization of an annular fin with combined heat and mass transfer “ An analytical solution. International Journal of Refrigeration, 2007, 30, 751-757.	1.8	75
23	The cost effectiveness of electrodialysis for diverse salinity applications. Desalination, 2014, 348, 57-65.	4.0	73
24	Experimental investigation of heat pump driven humidification-dehumidification desalination system for water desalination and space conditioning. Desalination, 2020, 475, 114199.	4.0	73
25	Compact and microchannel heat exchangers: A comprehensive review of air-side friction factor and heat transfer correlations. Energy Conversion and Management, 2018, 173, 555-601.	4.4	69
26	An Improved Design and Rating Analyses of Counter Flow Wet Cooling Towers. Journal of Heat Transfer, 2001, 123, 770-778.	1.2	68
27	On thermoeconomic analysis of a single-effect mechanical vapor compression desalination system. Desalination, 2017, 420, 292-307.	4.0	68
28	Use of multiple extractions and injections to thermodynamically balance the humidification dehumidification desalination system. International Journal of Heat and Mass Transfer, 2014, 68, 422-434.	2.5	67
29	Exergo-economic analysis of a hybrid humidification dehumidification reverse osmosis (HDH-RO) system operating under different retrofits. Energy Conversion and Management, 2018, 158, 286-297.	4.4	66
30	Thermodynamic balancing of a fixed-size two-stage humidification dehumidification desalination system. Desalination, 2015, 369, 125-139.	4.0	64
31	Experimental energetic analysis of a vapor compression refrigeration system with dedicated mechanical sub-cooling. Applied Energy, 2013, 102, 1035-1041.	5.1	61
32	ENERGY EFFECTIVENESS OF SIMULTANEOUS HEAT AND MASS EXCHANGE DEVICES. Frontiers in Heat and Mass Transfer, 2010, 1, .	0.1	61
33	Design and analysis of a forward feed multi-effect mechanical vapor compression desalination system: An exergo-economic approach. Energy, 2017, 140, 1107-1120.	4.5	55
34	Performance evaluation of a once-through multi-stage flash distillation system: Impact of brine heater fouling. Energy Conversion and Management, 2011, 52, 1414-1425.	4.4	54
35	The effect of refrigerant combinations on performance of a vapor compression refrigeration system with dedicated mechanical sub-cooling. International Journal of Refrigeration, 2012, 35, 47-57.	1.8	54
36	A comprehensive design and performance evaluation study of counter flow wet cooling towers. International Journal of Refrigeration, 2004, 27, 914-923.	1.8	52

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37	Thermoeconomic assessment of an adsorption cooling/desalination cycle coupled with a water-heated humidification-dehumidification desalination unit. <i>Energy Conversion and Management</i> , 2020, 223, 113270.	4.4	52
38	Novel and efficient integration of a humidification-dehumidification desalination system with an absorption refrigeration system. <i>Applied Energy</i> , 2020, 263, 114659.	5.1	52
39	Techno-economic assessment of electrodialysis and reverse osmosis desalination plants. <i>Separation and Purification Technology</i> , 2021, 272, 118875.	3.9	52
40	Design and performance evaluation of reciprocating refrigeration systems. <i>International Journal of Refrigeration</i> , 1999, 22, 235-243.	1.8	50
41	Design and rating of an integrated mechanical-subcooling vapor-compression refrigeration system. <i>Energy Conversion and Management</i> , 2000, 41, 1201-1222.	4.4	49
42	Performance evaluation of variable pressure humidification-dehumidification systems. <i>Desalination</i> , 2017, 409, 171-182.	4.0	48
43	Liquid desiccant based two-stage evaporative cooling system using reverse osmosis (RO) process for regeneration. <i>Applied Thermal Engineering</i> , 2007, 27, 2449-2454.	3.0	47
44	Thermodynamic equipartition for increased second law efficiency. <i>Applied Energy</i> , 2014, 118, 292-299.	5.1	45
45	Extended incomplete gamma functions with applications. <i>Journal of Mathematical Analysis and Applications</i> , 2002, 274, 725-745.	0.5	42
46	Solar-powered ejector-based adsorption desalination system integrated with a humidification-dehumidification system. <i>Energy Conversion and Management</i> , 2021, 238, 114113.	4.4	42
47	A comprehensive design and rating study of evaporative coolers and condensers. Part I. Performance evaluation. <i>International Journal of Refrigeration</i> , 2006, 29, 645-658.	1.8	41
48	Mechanical sub-cooling vapor compression systems: Current status and future directions. <i>International Journal of Refrigeration</i> , 2013, 36, 2097-2110.	1.8	41
49	The impact of fouling on the condenser of a vapor compression refrigeration system: An experimental observation. <i>International Journal of Refrigeration</i> , 2014, 38, 260-266.	1.8	41
50	Application of exergy analysis to various psychrometric processes. <i>International Journal of Energy Research</i> , 2003, 27, 1079-1094.	2.2	40
51	Exergy Analysis of Single- and Two-Stage Crude Oil Distillation Units. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2003, 125, 199-207.	1.4	40
52	Exergetic analysis of a brackish water reverse osmosis desalination unit with various energy recovery systems. <i>Energy</i> , 2015, 93, 256-265.	4.5	39
53	Effect of feed flow arrangement and number of evaporators on the performance of multi-effect mechanical vapor compression desalination systems. <i>Desalination</i> , 2018, 429, 76-87.	4.0	39
54	Second-law-based thermoeconomic optimization of a sensible heat thermal energy storage system. <i>Energy</i> , 1993, 18, 641-649.	4.5	37

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55	The impact of fouling on performance of a vapor compression refrigeration system with integrated mechanical sub-cooling system. <i>Applied Energy</i> , 2012, 92, 750-762.	5.1	37
56	A novel heat exchanger design procedure for photovoltaic panel cooling application: An analytical and experimental evaluation. <i>Applied Energy</i> , 2019, 239, 41-56.	5.1	37
57	Performance evaluation of hot-gas by-pass capacity control schemes for refrigeration and air-conditioning systems. <i>Energy</i> , 2000, 25, 543-561.	4.5	35
58	Improvement in design of electro dialysis desalination plants by considering the Donnan potential. <i>Desalination</i> , 2018, 441, 62-76.	4.0	35
59	A comprehensive framework for thermoeconomic analysis of desalination systems. <i>Energy Conversion and Management</i> , 2020, 222, 113188.	4.4	35
60	A Comprehensive Review of Saline Water Correlations and Data: Part II – Thermophysical Properties. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 1941-1979.	1.7	33
61	A risk based heat exchanger analysis subject to fouling Part I: Performance evaluation. <i>Energy</i> , 2000, 25, 427-443.	4.5	32
62	Prediction of Evaporation Losses in Wet Cooling Towers. <i>Heat Transfer Engineering</i> , 2006, 27, 86-92.	1.2	32
63	Design strategies of conventional and modified closed-air open-water humidification dehumidification systems. <i>Desalination</i> , 2018, 435, 114-127.	4.0	32
64	A probabilistic approach to the maintenance of heat-transfer equipment subject to fouling. <i>Energy</i> , 1992, 17, 769-776.	4.5	30
65	Thermodynamics of a vapor-compression refrigeration cycle with mechanical subcooling. <i>Energy</i> , 1994, 19, 707-715.	4.5	30
66	Enhancing the thermal and economic performance of supercritical CO ₂ plant by waste heat recovery using an ejector refrigeration cycle. <i>Energy Conversion and Management</i> , 2020, 224, 113340.	4.4	30
67	Thermoeconomic considerations in the optimum allocation of heat exchanger inventory for a power plant. <i>Energy Conversion and Management</i> , 2001, 42, 1169-1179.	4.4	29
68	The impact of fouling on performance evaluation of evaporative coolers and condensers. <i>International Journal of Energy Research</i> , 2005, 29, 1313-1330.	2.2	29
69	Performance analysis of a chilled water system with various pumping schemes. <i>Applied Energy</i> , 2012, 100, 238-248.	5.1	29
70	Exergo-economic analysis of a seawater reverse osmosis desalination plant with various retrofit options. <i>Desalination</i> , 2017, 401, 88-98.	4.0	29
71	The significance of modeling electro dialysis desalination using multi-component saline water. <i>Desalination</i> , 2020, 496, 114347.	4.0	29
72	A comprehensive design and rating study of evaporative coolers and condensers. Part II. Sensitivity analysis. <i>International Journal of Refrigeration</i> , 2006, 29, 659-668.	1.8	28

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73	On Thermal Performance of Seawater Cooling Towers. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	27
74	Performance degradation of a vapor compression refrigeration system under fouled conditions. International Journal of Refrigeration, 2011, 34, 1016-1027.	1.8	26
75	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
76	Effect of fouling on operational cost in pipe flow due to entropy generation. Energy Conversion and Management, 2000, 41, 1485-1496.	4.4	25
77	Exergoeconomic optimization of a shell-and-tube heat exchanger. Energy Conversion and Management, 2020, 226, 113462.	4.4	25
78	Hybridization of a triple-effect absorption heat pump with a humidification-dehumidification desalination unit: Thermodynamic and economic investigation. Energy Conversion and Management, 2021, 233, 113879.	4.4	25
79	Energy-exergy analysis of seawater reverse osmosis plants. Desalination, 2016, 385, 138-147.	4.0	24
80	The impact of thermodynamic balancing on performance of a desiccant-based humidification-dehumidification system to harvest freshwater from atmospheric air. Energy Conversion and Management, 2019, 199, 112011.	4.4	24
81	Improvement of refrigeration/air-conditioning performance with mechanical sub-cooling. Energy, 1990, 15, 427-433.	4.5	23
82	Design and performance evaluation of reverse osmosis desalination systems: An emphasis on fouling modeling. Applied Thermal Engineering, 2013, 60, 208-217.	3.0	23
83	Improving the performance of thermal management system for electric and hybrid electric vehicles by adding an ejector. Energy Conversion and Management, 2019, 201, 112133.	4.4	23
84	Area allocation in multi-zone feedwater heaters. Energy Conversion and Management, 2007, 48, 568-575.	4.4	22
85	Performance and optimum geometry of spines with simultaneous heat and mass transfer. International Journal of Thermal Sciences, 2009, 48, 2130-2138.	2.6	22
86	An innovative closed-air closed-desiccant HDH system to extract water from the air: A case for zero-brine discharge system. Desalination, 2018, 445, 236-248.	4.0	22
87	Analytical and numerical schemes for thermodynamically balanced humidification-dehumidification desalination systems. Energy Conversion and Management, 2019, 200, 112052.	4.4	22
88	Second-law-based thermodynamic analysis of hot-gas, by-pass, capacity-control schemes for refrigeration and air-conditioning systems. Energy, 1995, 20, 483-493.	4.5	21
89	Design and rating of a two-stage vapor-compression refrigeration system. Energy, 1998, 23, 867-878.	4.5	21
90	The impact of fouling on performance evaluation of multi-zone feedwater heaters. Applied Thermal Engineering, 2007, 27, 2505-2513.	3.0	21

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91	Thermal Analysis and Optimization of Orthotropic Pin Fins: A Closed-Form Analytical Solution. Journal of Heat Transfer, 2010, 132, .	1.2	21
92	A Comprehensive Review of Saline Water Correlations and Data-Part I: Thermodynamic Properties. Arabian Journal for Science and Engineering, 2020, 45, 8817-8876.	1.7	21
93	Thermodynamic optimization of finite time vapor compression refrigeration systems. Energy Conversion and Management, 2001, 42, 1457-1475.	4.4	20
94	Heat and mass transfer from annular fins of different cross-sectional area. Part I. Temperature distribution and fin efficiency. International Journal of Refrigeration, 2012, 35, 365-376.	1.8	20
95	Thermodynamic analysis of an innovative liquid desiccant air conditioning system to supply potable water. Energy Conversion and Management, 2017, 148, 161-173.	4.4	20
96	Generalized air-side friction and heat transfer correlations for wavy-fin compact heat exchangers. International Journal of Refrigeration, 2019, 97, 21-30.	1.8	20
97	Heat pump operated humidification-dehumidification desalination system with option of energy recovery. Separation Science and Technology, 2020, 55, 3467-3486.	1.3	20
98	Thermal analysis of orthotropic annular fins with contact resistance: A closed-form analytical solution. Applied Thermal Engineering, 2011, 31, 937-945.	3.0	19
99	The impact of thermodynamic potentials on the design of electrodialysis desalination plants. Energy Conversion and Management, 2020, 205, 112448.	4.4	19
100	Thermal-hydraulic characteristics of gasketed plate heat exchangers as a preheater for thermal desalination systems. Energy Conversion and Management, 2020, 205, 112425.	4.4	19
101	Exergoeconomic assessment of the ejector-based battery thermal management system for electric and hybrid-electric vehicles. Energy, 2022, 245, 123252.	4.5	19
102	Exergetic efficiency of NF, RO and EDR desalination plants. Desalination, 2016, 378, 92-99.	4.0	18
103	Thermodynamic balancing of the regeneration process in a novel liquid desiccant cooling/desalination system. Energy Conversion and Management, 2018, 176, 86-98.	4.4	18
104	Prediction of evaporation losses in evaporative fluid coolers. Applied Thermal Engineering, 2007, 27, 520-527.	3.0	17
105	Efficiency and Optimization of a Straight Rectangular Fin with Combined Heat and Mass Transfer. Heat Transfer Engineering, 2008, 29, 1018-1026.	1.2	17
106	Heat and mass transfer from annular fins of different cross sectional area. Part II. Optimal dimensions of fins. International Journal of Refrigeration, 2012, 35, 377-385.	1.8	17
107	Thermal performance and optimization of hyperbolic annular fins under dehumidifying operating conditions " analytical and numerical solutions. International Journal of Refrigeration, 2016, 65, 42-54.	1.8	17
108	A comprehensive thermal-hydraulic assessment of solar flat-plate air heaters. Energy Conversion and Management, 2020, 215, 112922.	4.4	17

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109	Thermodynamic analyses of the CFC-12 and HFC-134a refrigeration cycles. <i>Energy</i> , 1993, 18, 717-726.	4.5	16
110	Exergy and sensitivity analysis of electrodialysis reversal desalination plants. <i>Desalination</i> , 2016, 394, 195-203.	4.0	16
111	On a thermodynamically-balanced humidification-dehumidification desalination system driven by a vapor-absorption heat pump. <i>Energy Conversion and Management</i> , 2021, 238, 114142.	4.4	16
112	Cost optimization of heat exchanger inventory for mechanical subcooling refrigeration cycles. <i>International Journal of Refrigeration</i> , 2013, 36, 1243-1253.	1.8	14
113	Design of electrodialysis desalination plants by considering dimensionless groups and variable equivalent conductivity. <i>Desalination</i> , 2018, 430, 197-207.	4.0	14
114	A design procedure to size thermodynamically-balanced humidification-dehumidification desalination systems. <i>Energy Conversion and Management</i> , 2020, 224, 113357.	4.4	14
115	Different configurations of humidification-dehumidification desalination systems: Thermal and economic assessment. <i>Energy Conversion and Management</i> , 2022, 258, 115470.	4.4	14
116	Heat Exchangers Design Under Variable Overall Heat Transfer Coefficient: Improved Analytical and Numerical Approaches. <i>Heat Transfer Engineering</i> , 2010, 31, 1051-1056.	1.2	13
117	Study of orthotropic pin fin performance through axisymmetric thermal non-dimensional finite element. <i>Applied Thermal Engineering</i> , 2011, 31, 376-384.	3.0	13
118	Performance analysis of an ejector cooling system with a conventional chilled water system. <i>Applied Thermal Engineering</i> , 2014, 66, 113-121.	3.0	13
119	Exergy-based entropy-generation analysis of electrodialysis desalination systems. <i>Energy Conversion and Management</i> , 2020, 220, 113119.	4.4	13
120	Effectiveness-NTU Relations for Parallel Flow Heat Exchangers Subjected to Heat Leak from Outside. <i>Heat Transfer Engineering</i> , 2008, 29, 475-483.	1.2	12
121	Performance characteristics of a once-through multi-stage flash distillation process. <i>Desalination and Water Treatment</i> , 2010, 13, 174-185.	1.0	12
122	Thermoeconomic Considerations in the Optimum Allocation of Heat Transfer Inventory for Refrigeration and Heat Pump Systems. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2002, 124, 28-33.	1.4	11
123	The Effect of a Number of Baffles on the Performance of Shell-and-Tube Heat Exchangers. <i>Heat Transfer Engineering</i> , 2019, 40, 39-52.	1.2	11
124	Experimental investigation of air heated bubble column humidification dehumidification desalination system. <i>International Journal of Energy Research</i> , 2021, 45, 2610-2628.	2.2	11
125	An innovative hybridization of electrodialysis with reverse osmosis for brackish water desalination. <i>Energy Conversion and Management</i> , 2021, 245, 114589.	4.4	11
126	A probabilistic fouling and cost model for plate-and-frame heat exchangers. <i>International Journal of Energy Research</i> , 2006, 30, 1-17.	2.2	10

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127	Optimization of a finned heat sink array based on thermoeconomic analysis. <i>International Journal of Energy Research</i> , 2007, 31, 455-471.	2.2	10
128	Performance evaluation of a solar still in the Eastern Province of Saudi Arabiaâ€”an improved analysis. <i>Desalination and Water Treatment</i> , 2010, 22, 100-110.	1.0	10
129	Characterization of various losses in a cryogenic counterflow heat exchanger. <i>Cryogenics</i> , 2014, 64, 77-85.	0.9	10
130	An Analysis of Likely Scalants in the Treatment of Produced Water From Nova Scotia. <i>Heat Transfer Engineering</i> , 2015, 36, 652-662.	1.2	10
131	Analytical solutions to counter-flow heat exchanger subjected to external heat flux and axial conduction. <i>International Journal of Refrigeration</i> , 2017, 74, 22-37.	1.8	10
132	A comprehensive review on multi-physics modeling of photovoltaic modules. <i>Energy Conversion and Management</i> , 2022, 258, 115414.	4.4	10
133	Thermodynamic analysis of capacity-control schemes for refrigeration and air-conditioning systems. <i>Energy</i> , 1996, 21, 463-472.	4.5	9
134	A Risk-Based Performance Analysis of Plate-and-Frame Heat Exchangers Subject to Fouling: Economics of Heat Exchanger Cleaning. <i>Heat Transfer Engineering</i> , 2004, 25, 87-100.	1.2	9
135	Rebuttal to â€œDiscussion of â€”Second law analysis of reverse osmosis desalination plants: An alternative design using pressure retarded osmosisâ€™ [Energy 2011] 36: 6617â€”6626]â€• <i>Energy</i> , 2012, 46, 691-693.	4.5	9
136	The impact of fin profile and interface condition on performance characteristics of heat sinks. <i>Applied Thermal Engineering</i> , 2013, 55, 102-112.	3.0	8
137	Predicting the impact of heat exchanger fouling in refrigeration systems. <i>International Journal of Refrigeration</i> , 2014, 44, 116-124.	1.8	8
138	Predicting the impact of heat exchanger fouling in power systems. <i>Energy</i> , 2016, 107, 595-602.	4.5	8
139	Flow Distribution in U- and Z-Type Manifolds: Experimental and Numerical Investigation. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 6005-6020.	1.7	8
140	Explicit prediction models for brackish water electrodialysis desalination plants: Energy consumption and membrane area. <i>Energy Conversion and Management</i> , 2022, 261, 115656.	4.4	8
141	Thermoeconomic considerations in the allocation of heat transfer inventory for irreversible refrigeration and heat pump systems. <i>International Journal of Refrigeration</i> , 2015, 54, 67-75.	1.8	7
142	Assessment of thermo-fluid analogies for different flow configurations: the effect of Prandtl number, and laminar-to-turbulent flow regimes. <i>International Journal of Thermal Sciences</i> , 2018, 129, 145-170.	2.6	7
143	An assessment of the optimal air-side thermal-hydraulic performance of wavy-fin compact heat exchangers. <i>International Journal of Refrigeration</i> , 2018, 96, 117-130.	1.8	7
144	Effectiveness-NTU relations for parallel flow heat exchangers: The effect of kinetic energy variation and heat leak from outside. <i>International Journal of Refrigeration</i> , 2013, 36, 1557-1569.	1.8	6

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145	Thermal-Hydraulic Characteristics of Helical Baffle Shell-and-Tube Heat Exchangers. Heat Transfer Engineering, 2020, 41, 1143-1155.	1.2	6
146	Thermoeconomic design and analysis of a sensible-heat thermal energy storage system with Joulean heating of the storage element. Exergy an International Journal, 2002, 2, 237-247.	0.7	5
147	A risk based performance evaluation of plate-and-frame heat exchangers. Heat and Mass Transfer, 2003, 39, 327-336.	1.2	5
148	The effect of coating and interface resistance on thermal performance of variable thickness annular composite fins. Energy Conversion and Management, 2012, 54, 152-161.	4.4	5
149	Heat exchanger inventory cost optimization for power cycles with one feedwater heater. Energy Conversion and Management, 2014, 86, 379-387.	4.4	5
150	Dew point refrigeration systems: Normalized sensitivity analysis and impact of fouling. International Journal of Refrigeration, 2015, 55, 60-71.	1.8	5
151	A maintenance-focused approach to complex system design. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 263-276.	0.7	5
152	The impact of thermodynamic balancing on the performance of a humidification dehumidification desalination system. Thermal Science and Engineering Progress, 2021, 21, 100794.	1.3	5
153	Influence of manifold heating and split flow on thermal-hydraulic characteristics: Application to heat exchangers having non-axisymmetric flow. Applied Thermal Engineering, 2017, 122, 768-784.	3.0	5
154	Exergoeconomic Optimization of an Integrated Supercritical CO2 Power Plant and Ejector-Based Refrigeration System for Electricity and Cooling Production. Arabian Journal for Science and Engineering, 2022, 47, 9137-9149.	1.7	5
155	Exergetic performance evaluation of ejector cooling system. International Journal of Exergy, 2011, 9, 80.	0.2	4
156	A unified approach to predict evaporation losses in evaporative heat exchangers. International Journal of Refrigeration, 2011, 34, 1866-1876.	1.8	4
157	Study of coating effects on variable profile annular fins when subjected to dehumidifying operating conditions. International Journal of Refrigeration, 2014, 48, 60-70.	1.8	4
158	Limits of one-dimensional solutions for orthotropic annular fins under dehumidifying operating conditions. International Journal of Refrigeration, 2017, 74, 412-424.	1.8	4
159	An assessment of optimal airside heat transfer per unit friction power characteristics of compact heat exchangers. International Journal of Refrigeration, 2019, 99, 479-489.	1.8	4
160	Experimental and Numerical Analysis of a Plate Heat Exchanger Using Variable Heat Transfer Coefficient. Heat Transfer Engineering, 2022, 43, 1566-1578.	1.2	4
161	Effectiveness-NTU Relations for Counterflow Heat Exchangers: The Effect of Kinetic Energy Variation and Heat Leak From Outside. Heat Transfer Engineering, 2013, 34, 810-827.	1.2	3
162	Thermal Analysis of Orthotropic Pin Fins With Contact Resistance: A Closed-Form Analytical Solution. Heat Transfer Engineering, 2013, 34, 349-360.	1.2	3

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163	The reversed chemical engine cycle with application to desalination processes. <i>Desalination</i> , 2016, 398, 256-264.	4.0	3
164	Selection of Optimum Heat Flux Distribution in Pipe Flow Under Laminar Forced Convection. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 2177-2190.	1.7	3
165	Normalized sensitivity analysis of electro dialysis desalination plants for mitigating hypersalinity. <i>Separation and Purification Technology</i> , 2021, 257, 117858.	3.9	3
166	Entropy generation analysis of electro dialysis desalination using multi-component groundwater. <i>Desalination</i> , 2021, 500, 114858.	4.0	3
167	A robust definition of energy effectiveness for humidification dehumidification desalination systems. <i>Energy Conversion and Management</i> , 2021, 238, 114058.	4.4	3
168	A comprehensive design and optimization of an offset strip-fin compact heat exchanger for energy recovery systems. <i>Energy Conversion and Management: X</i> , 2022, 14, 100191.	0.9	3
169	Effect of temperature dependent properties on the fin performance under dehumidifying operating conditions. <i>International Journal of Refrigeration</i> , 2018, 88, 578-586.	1.8	2
170	Performance of high velocity stream heat exchangers subjected to external heat transfer. <i>International Journal of Refrigeration</i> , 2020, 110, 1-18.	1.8	2
171	Exergoeconomic Analysis of Energy Conversion Systems: From Fundamentals to Applications. <i>Green Energy and Technology</i> , 2022, , 3-21.	0.4	2
172	Efficiency of Longitudinal Composite Fins With Thermal Interface Studied Through Plane Thermal Nondimensional Finite Element. <i>Heat Transfer Engineering</i> , 2013, 34, 629-641.	1.2	1
173	Exergoeconomic and Normalized Sensitivity Analysis of Plate Heat Exchangers: A Theoretical Framework with Application. , 0, , .		1
174	Addressing Mismatch Between the Peripheral and Local Nusselt Number for Non-Axisymmetric Flow Conditions: Redefining the Mean Temperature. <i>Heat Transfer Engineering</i> , 2021, 42, 387-408.	1.2	0
175	On a novel integration of a multistage absorption heat pump with a balanced humidification-dehumidification desalination unit. <i>Energy Conversion and Management: X</i> , 2021, 12, 100128.	0.9	0