

# Syed M Zubair

## List of Publications by Year in descending order

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175  
papers

7,561  
citations

61945

43  
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64755

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178  
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178  
docs citations

178  
times ranked

3956  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and Numerical Analysis of a Plate Heat Exchanger Using Variable Heat Transfer Coefficient. <i>Heat Transfer Engineering</i> , 2022, 43, 1566-1578.	1.2	4
2	Exergoeconomic Optimization of an Integrated Supercritical CO <sub>2</sub> Power Plant and Ejector-Based Refrigeration System for Electricity and Cooling Production. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 9137-9149.	1.7	5
3	Exergoeconomic Analysis of Energy Conversion Systems: From Fundamentals to Applications. <i>Green Energy and Technology</i> , 2022, , 3-21.	0.4	2
4	Exergoeconomic assessment of the ejector-based battery thermal management system for electric and hybrid-electric vehicles. <i>Energy</i> , 2022, 245, 123252.	4.5	19
5	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
6	A comprehensive review on multi-physics modeling of photovoltaic modules. <i>Energy Conversion and Management</i> , 2022, 258, 115414.	4.4	10
7	Different configurations of humidification-dehumidification desalination systems: Thermal and economic assessment. <i>Energy Conversion and Management</i> , 2022, 258, 115470.	4.4	14
8	Explicit prediction models for brackish water electro dialysis desalination plants: Energy consumption and membrane area. <i>Energy Conversion and Management</i> , 2022, 261, 115656.	4.4	8
9	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
10	Normalized sensitivity analysis of electro dialysis desalination plants for mitigating hypersalinity. <i>Separation and Purification Technology</i> , 2021, 257, 117858.	3.9	3
11	The impact of thermodynamic balancing on the performance of a humidification dehumidification desalination system. <i>Thermal Science and Engineering Progress</i> , 2021, 21, 100794.	1.3	5
12	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
13	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
14	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
15	Entropy generation analysis of electro dialysis desalination using multi-component groundwater. <i>Desalination</i> , 2021, 500, 114858.	4.0	3
16	Hybridization of a triple-effect absorption heat pump with a humidification-dehumidification desalination unit: Thermodynamic and economic investigation. <i>Energy Conversion and Management</i> , 2021, 233, 113879.	4.4	25
17	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.	2.9	26
18	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

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19	A robust definition of energy effectiveness for humidification dehumidification desalination systems. Energy Conversion and Management, 2021, 238, 114058.	4.4	3
20	On a thermodynamically-balanced humidification-dehumidification desalination system driven by a vapor-absorption heat pump. Energy Conversion and Management, 2021, 238, 114142.	4.4	16
21	An innovative hybridization of electrodialysis with reverse osmosis for brackish water desalination. Energy Conversion and Management, 2021, 245, 114589.	4.4	11
22	Techno-economic assessment of electrodialysis and reverse osmosis desalination plants. Separation and Purification Technology, 2021, 272, 118875.	3.9	52
23	On a novel integration of a multistage absorption heat pump with a balanced humidification-dehumidification desalination unit. Energy Conversion and Management: X, 2021, 12, 100128.	0.9	0
24	Thermal-Hydraulic Characteristics of Helical Baffle Shell-and-Tube Heat Exchangers. Heat Transfer Engineering, 2020, 41, 1143-1155.	1.2	6
25	Experimental investigation of heat pump driven humidification-dehumidification desalination system for water desalination and space conditioning. Desalination, 2020, 475, 114199.	4.0	73
26	Performance of high velocity stream heat exchangers subjected to external heat transfer. International Journal of Refrigeration, 2020, 110, 1-18.	1.8	2
27	Heat pump operated humidification-dehumidification desalination system with option of energy recovery. Separation Science and Technology, 2020, 55, 3467-3486.	1.3	20
28	Enhancing the thermal and economic performance of supercritical CO <sub>2</sub> plant by waste heat recovery using an ejector refrigeration cycle. Energy Conversion and Management, 2020, 224, 113340.	4.4	30
29	A design procedure to size thermodynamically-balanced humidification-dehumidification desalination systems. Energy Conversion and Management, 2020, 224, 113357.	4.4	14
30	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
31	A comprehensive framework for thermoeconomic analysis of desalination systems. Energy Conversion and Management, 2020, 222, 113188.	4.4	35
32	Thermoeconomic assessment of an adsorption cooling/desalination cycle coupled with a water-heated humidification-dehumidification desalination unit. Energy Conversion and Management, 2020, 223, 113270.	4.4	52
33	Exergoeconomic optimization of a shell-and-tube heat exchanger. Energy Conversion and Management, 2020, 226, 113462.	4.4	25
34	A comprehensive thermal-hydraulic assessment of solar flat-plate air heaters. Energy Conversion and Management, 2020, 215, 112922.	4.4	17
35	Flow Distribution in U- and Z-Type Manifolds: Experimental and Numerical Investigation. Arabian Journal for Science and Engineering, 2020, 45, 6005-6020.	1.7	8
36	Exergy-based entropy-generation analysis of electrodialysis desalination systems. Energy Conversion and Management, 2020, 220, 113119.	4.4	13

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37	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
38	The impact of thermodynamic potentials on the design of electrodialysis desalination plants. <i>Energy Conversion and Management</i> , 2020, 205, 112448.	4.4	19
39	Thermal-hydraulic characteristics of gasketed plate heat exchangers as a preheater for thermal desalination systems. <i>Energy Conversion and Management</i> , 2020, 205, 112425.	4.4	19
40	The significance of modeling electrodialysis desalination using multi-component saline water. <i>Desalination</i> , 2020, 496, 114347.	4.0	29
41	Analytical and numerical schemes for thermodynamically balanced humidification-dehumidification desalination systems. <i>Energy Conversion and Management</i> , 2019, 200, 112052.	4.4	22
42	Improving the performance of thermal management system for electric and hybrid electric vehicles by adding an ejector. <i>Energy Conversion and Management</i> , 2019, 201, 112133.	4.4	23
43	The impact of thermodynamic balancing on performance of a desiccant-based humidification-dehumidification system to harvest freshwater from atmospheric air. <i>Energy Conversion and Management</i> , 2019, 199, 112011.	4.4	24
44	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
45	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
46	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
47	An assessment of optimal airside heat transfer per unit friction power characteristics of compact heat exchangers. <i>International Journal of Refrigeration</i> , 2019, 99, 479-489.	1.8	4
48	Generalized air-side friction and heat transfer correlations for wavy-fin compact heat exchangers. <i>International Journal of Refrigeration</i> , 2019, 97, 21-30.	1.8	20
49	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
50	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
51	Exergo-economic analysis of a hybrid humidification dehumidification reverse osmosis (HDH-RO) system operating under different retrofits. <i>Energy Conversion and Management</i> , 2018, 158, 286-297.	4.4	66
52	Humidification-dehumidification desalination system operated by a heat pump. <i>Energy Conversion and Management</i> , 2018, 161, 128-140.	4.4	113
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	Design of electrodialysis desalination plants by considering dimensionless groups and variable equivalent conductivity. <i>Desalination</i> , 2018, 430, 197-207.	4.0	14

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55	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
56	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
57	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
58	Design strategies of conventional and modified closed-air open-water humidification dehumidification systems. <i>Desalination</i> , 2018, 435, 114-127.	4.0	32
59	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
60	Thermodynamic balancing of the regeneration process in a novel liquid desiccant cooling/desalination system. <i>Energy Conversion and Management</i> , 2018, 176, 86-98.	4.4	18
61	Exergo-economic analysis of humidification-dehumidification (HDH) desalination systems driven by heat pump (HP). <i>Desalination</i> , 2018, 443, 11-25.	4.0	87
62	Improvement in design of electrodialysis desalination plants by considering the Donnan potential. <i>Desalination</i> , 2018, 441, 62-76.	4.0	35
63	An innovative closed-air closed-desiccant HDH system to extract water from the air: A case for zero-brine discharge system. <i>Desalination</i> , 2018, 445, 236-248.	4.0	22
64	Compact and microchannel heat exchangers: A comprehensive review of air-side friction factor and heat transfer correlations. <i>Energy Conversion and Management</i> , 2018, 173, 555-601.	4.4	69
65	Performance evaluation of variable pressure humidification-dehumidification systems. <i>Desalination</i> , 2017, 409, 171-182.	4.0	48
66	Thermodynamic analysis of an innovative liquid desiccant air conditioning system to supply potable water. <i>Energy Conversion and Management</i> , 2017, 148, 161-173.	4.4	20
67	Limits of one-dimensional solutions for orthotropic annular fins under dehumidifying operating conditions. <i>International Journal of Refrigeration</i> , 2017, 74, 412-424.	1.8	4
68	Design and analysis of a forward feed multi-effect mechanical vapor compression desalination system: An exergo-economic approach. <i>Energy</i> , 2017, 140, 1107-1120.	4.5	55
69	On thermoeconomic analysis of a single-effect mechanical vapor compression desalination system. <i>Desalination</i> , 2017, 420, 292-307.	4.0	68
70	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
71	Exergo-economic analysis of a seawater reverse osmosis desalination plant with various retrofit options. <i>Desalination</i> , 2017, 401, 88-98.	4.0	29
72	Influence of manifold heating and split flow on thermal-hydraulic characteristics: Application to heat exchangers having non-axisymmetric flow. <i>Applied Thermal Engineering</i> , 2017, 122, 768-784.	3.0	5

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73	A maintenance-focused approach to complex system design. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 263-276.	0.7	5
74	Predicting the impact of heat exchanger fouling in power systems. Energy, 2016, 107, 595-602.	4.5	8
75	The reversed chemical engine cycle with application to desalination processes. Desalination, 2016, 398, 256-264.	4.0	3
76	Exergy and sensitivity analysis of electrodialysis reversal desalination plants. Desalination, 2016, 394, 195-203.	4.0	16
77	Energy-exergy analysis of seawater reverse osmosis plants. Desalination, 2016, 385, 138-147.	4.0	24
78	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
79	Exergetic efficiency of NF, RO and EDR desalination plants. Desalination, 2016, 378, 92-99.	4.0	18
80	An Analysis of Likely Scalants in the Treatment of Produced Water From Nova Scotia. Heat Transfer Engineering, 2015, 36, 652-662.	1.2	10
81	Thermoeconomic considerations in the allocation of heat transfer inventory for irreversible refrigeration and heat pump systems. International Journal of Refrigeration, 2015, 54, 67-75.	1.8	7
82	Thermodynamic balancing of a fixed-size two-stage humidification dehumidification desalination system. Desalination, 2015, 369, 125-139.	4.0	64
83	Dew point refrigeration systems: Normalized sensitivity analysis and impact of fouling. International Journal of Refrigeration, 2015, 55, 60-71.	1.8	5
84	Exergetic analysis of a brackish water reverse osmosis desalination unit with various energy recovery systems. Energy, 2015, 93, 256-265.	4.5	39
85	Thermodynamic equipartition for increased second law efficiency. Applied Energy, 2014, 118, 292-299.	5.1	45
86	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
87	Performance analysis of an ejector cooling system with a conventional chilled water system. Applied Thermal Engineering, 2014, 66, 113-121.	3.0	13
88	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
89	On the cost of electrodialysis for the desalination of high salinity feeds. Applied Energy, 2014, 136, 649-661.	5.1	143
90	The cost effectiveness of electrodialysis for diverse salinity applications. Desalination, 2014, 348, 57-65.	4.0	73

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91	Characterization of various losses in a cryogenic counterflow heat exchanger. <i>Cryogenics</i> , 2014, 64, 77-85.	0.9	10
92	Optimum thermal design of humidification dehumidification desalination systems. <i>Desalination</i> , 2014, 349, 10-21.	4.0	189
93	Predicting the impact of heat exchanger fouling in refrigeration systems. <i>International Journal of Refrigeration</i> , 2014, 44, 116-124.	1.8	8
94	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
95	Heat exchanger inventory cost optimization for power cycles with one feedwater heater. <i>Energy Conversion and Management</i> , 2014, 86, 379-387.	4.4	5
96	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
97	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
98	Design and performance evaluation of reverse osmosis desalination systems: An emphasis on fouling modeling. <i>Applied Thermal Engineering</i> , 2013, 60, 208-217.	3.0	23
99	Mechanical sub-cooling vapor compression systems: Current status and future directions. <i>International Journal of Refrigeration</i> , 2013, 36, 2097-2110.	1.8	41
100	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
101	Effectiveness-NTU Relations for Counterflow Heat Exchangers: The Effect of Kinetic Energy Variation and Heat Leak From Outside. <i>Heat Transfer Engineering</i> , 2013, 34, 810-827.	1.2	3
102	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
103	Cost optimization of heat exchanger inventory for mechanical subcooling refrigeration cycles. <i>International Journal of Refrigeration</i> , 2013, 36, 1243-1253.	1.8	14
104	Experimental energetic analysis of a vapor compression refrigeration system with dedicated mechanical sub-cooling. <i>Applied Energy</i> , 2013, 102, 1035-1041.	5.1	61
105	Performance limits of zero and single extraction humidification-dehumidification desalination systems. <i>Applied Energy</i> , 2013, 102, 1081-1090.	5.1	113
106	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
107	Thermal Analysis of Orthotropic Pin Fins With Contact Resistance: A Closed-Form Analytical Solution. <i>Heat Transfer Engineering</i> , 2013, 34, 349-360.	1.2	3
108	Performance analysis of a chilled water system with various pumping schemes. <i>Applied Energy</i> , 2012, 100, 238-248.	5.1	29

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109	Rebuttal to "Discussion of "Second law analysis of reverse osmosis desalination plants: An alternative design using pressure retarded osmosis" [Energy 2011] 36: 6617-6626" Energy, 2012, 46, 691-693.	4.5	9
110	The impact of fouling on performance of a vapor compression refrigeration system with integrated mechanical sub-cooling system. Applied Energy, 2012, 92, 750-762.	5.1	37
111	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
112	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
113	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
114	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
115	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
116	Exergetic performance evaluation of ejector cooling system. International Journal of Exergy, 2011, 9, 80.	0.2	4
117	A unified approach to predict evaporation losses in evaporative heat exchangers. International Journal of Refrigeration, 2011, 34, 1866-1876.	1.8	4
118	Second law analysis of reverse osmosis desalination plants: An alternative design using pressure retarded osmosis. Energy, 2011, 36, 6617-6626.	4.5	142
119	Entropy Generation Analysis of Desalination Technologies. Entropy, 2011, 13, 1829-1864.	1.1	229
120	Performance degradation of a vapor compression refrigeration system under fouled conditions. International Journal of Refrigeration, 2011, 34, 1016-1027.	1.8	26
121	On exergy calculations of seawater with applications in desalination systems. International Journal of Thermal Sciences, 2011, 50, 187-196.	2.6	137
122	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
123	Study of orthotropic pin fin performance through axisymmetric thermal non-dimensional finite element. Applied Thermal Engineering, 2011, 31, 376-384.	3.0	13
124	Thermal analysis of orthotropic annular fins with contact resistance: A closed-form analytical solution. Applied Thermal Engineering, 2011, 31, 937-945.	3.0	19
125	On Thermal Performance of Seawater Cooling Towers. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	27
126	Entropy generation minimization of combined heat and mass transfer devices. International Journal of Thermal Sciences, 2010, 49, 2057-2066.	2.6	132



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127	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
128	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
129	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
130	Thermal Analysis and Optimization of Orthotropic Pin Fins: A Closed-Form Analytical Solution. <i>Journal of Heat Transfer</i> , 2010, 132, .	1.2	21
131	Performance characteristics of a once-through multi-stage flash distillation process. <i>Desalination and Water Treatment</i> , 2010, 13, 174-185.	1.0	12
132	Thermodynamic analysis of humidification dehumidification desalination cycles. <i>Desalination and Water Treatment</i> , 2010, 16, 339-353.	1.0	274
133	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
134	Performance evaluation of a solar still in the Eastern Province of Saudi Arabia-an improved analysis. <i>Desalination and Water Treatment</i> , 2010, 22, 100-110.	1.0	10
135	ENERGY EFFECTIVENESS OF SIMULTANEOUS HEAT AND MASS EXCHANGE DEVICES. <i>Frontiers in Heat and Mass Transfer</i> , 2010, 1, .	0.1	61
136	Performance and optimum geometry of spines with simultaneous heat and mass transfer. <i>International Journal of Thermal Sciences</i> , 2009, 48, 2130-2138.	2.6	22
137	Efficiency and optimization of straight fins with combined heat and mass transfer - An analytical solution. <i>Applied Thermal Engineering</i> , 2008, 28, 2279-2288.	3.0	93
138	Efficiency and Optimization of a Straight Rectangular Fin with Combined Heat and Mass Transfer. <i>Heat Transfer Engineering</i> , 2008, 29, 1018-1026.	1.2	17
139	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
140	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
141	Prediction of evaporation losses in evaporative fluid coolers. <i>Applied Thermal Engineering</i> , 2007, 27, 520-527.	3.0	17
142	Efficiency and optimization of an annular fin with combined heat and mass transfer - An analytical solution. <i>International Journal of Refrigeration</i> , 2007, 30, 751-757.	1.8	75
143	Area allocation in multi-zone feedwater heaters. <i>Energy Conversion and Management</i> , 2007, 48, 568-575.	4.4	22
144	The impact of fouling on performance evaluation of multi-zone feedwater heaters. <i>Applied Thermal Engineering</i> , 2007, 27, 2505-2513.	3.0	21

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145	Liquid desiccant based two-stage evaporative cooling system using reverse osmosis (RO) process for regeneration. Applied Thermal Engineering, 2007, 27, 2449-2454.	3.0	47
146	Prediction of Evaporation Losses in Wet Cooling Towers. Heat Transfer Engineering, 2006, 27, 86-92.	1.2	32
147	A comprehensive design and rating study of evaporative coolers and condensers. Part I. Performance evaluation. International Journal of Refrigeration, 2006, 29, 645-658.	1.8	41
148	A comprehensive design and rating study of evaporative coolers and condensers. Part II. Sensitivity analysis. International Journal of Refrigeration, 2006, 29, 659-668.	1.8	28
149	A probabilistic fouling and cost model for plate-and-frame heat exchangers. International Journal of Energy Research, 2006, 30, 1-17.	2.2	10
150	The impact of fouling on performance evaluation of evaporative coolers and condensers. International Journal of Energy Research, 2005, 29, 1313-1330.	2.2	29
151	A comprehensive design and performance evaluation study of counter flow wet cooling towers. International Journal of Refrigeration, 2004, 27, 914-923.	1.8	52
152	A Risk-Based Performance Analysis of Plate-and-Frame Heat Exchangers Subject to Fouling: Economics of Heat Exchanger Cleaning. Heat Transfer Engineering, 2004, 25, 87-100.	1.2	9
153	A risk based performance evaluation of plate-and-frame heat exchangers. Heat and Mass Transfer, 2003, 39, 327-336.	1.2	5
154	Application of exergy analysis to various psychrometric processes. International Journal of Energy Research, 2003, 27, 1079-1094.	2.2	40
155	Exergy Analysis of Single- and Two-Stage Crude Oil Distillation Units. Journal of Energy Resources Technology, Transactions of the ASME, 2003, 125, 199-207.	1.4	40
156	Thermoeconomic Considerations in the Optimum Allocation of Heat Transfer Inventory for Refrigeration and Heat Pump Systems. Journal of Energy Resources Technology, Transactions of the ASME, 2002, 124, 28-33.	1.4	11
157	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
158	Extended incomplete gamma functions with applications. Journal of Mathematical Analysis and Applications, 2002, 274, 725-745.	0.5	42
159	An Improved Design and Rating Analyses of Counter Flow Wet Cooling Towers. Journal of Heat Transfer, 2001, 123, 770-778.	1.2	68
160	Thermodynamic optimization of finite time vapor compression refrigeration systems. Energy Conversion and Management, 2001, 42, 1457-1475.	4.4	20
161	Thermoeconomic considerations in the optimum allocation of heat exchanger inventory for a power plant. Energy Conversion and Management, 2001, 42, 1169-1179.	4.4	29
162	Performance evaluation of hot-gas by-pass capacity control schemes for refrigeration and air-conditioning systems. Energy, 2000, 25, 543-561.	4.5	35

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163	A risk based heat exchanger analysis subject to fouling Part I: Performance evaluation. Energy, 2000, 25, 427-443.	4.5	32
164	Effect of fouling on operational cost in pipe flow due to entropy generation. Energy Conversion and Management, 2000, 41, 1485-1496.	4.4	25
165	Design and rating of an integrated mechanical-subcooling vapor-compression refrigeration system. Energy Conversion and Management, 2000, 41, 1201-1222.	4.4	49
166	Design and performance evaluation of reciprocating refrigeration systems. International Journal of Refrigeration, 1999, 22, 235-243.	1.8	50
167	Design and rating of a two-stage vapor-compression refrigeration system. Energy, 1998, 23, 867-878.	4.5	21
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