

Carey J Simonson

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146
papers

4,148
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h-index

58
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149
ext. papers

4,555
ext. citations

5.2
avg, IF

5.96
L-index

#	Paper	IF	Citations
146	Moisture buffering capacity of hygroscopic building materials: Experimental facilities and energy impact. <i>Energy and Buildings</i> , 2006 , 38, 1270-1282	7	233
145	Energy wheel effectiveness: part II—development of dimensionless groups. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 2161-2170	4.9	138
144	Performance analysis of a membrane liquid desiccant air-conditioning system. <i>Energy and Buildings</i> , 2013 , 62, 559-569	7	119
143	Numerical model and effectiveness correlations for a run-around heat recovery system with combined counter and cross flow exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5827-5840	4.9	119
142	A review of frosting in air-to-air energy exchangers. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 30, 538-554	16.2	110
141	The effect of structures on indoor humidity—possibility to improve comfort and perceived air quality. <i>Indoor Air</i> , 2002 , 12, 243-51	5.4	110
140	Performance testing of a counter-cross-flow run-around membrane energy exchanger (RAMEE) system for HVAC applications. <i>Energy and Buildings</i> , 2010 , 42, 1139-1147	7	99
139	Review of heat/energy recovery exchangers for use in ZEBs in cold climate countries. <i>Building and Environment</i> , 2015 , 84, 228-237	6.5	89
138	State-of-the-art in liquid desiccant air conditioning equipment and systems. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 58, 1152-1183	16.2	86
137	Energy wheel effectiveness: part II—correlations. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 2171-2185	4.9	80
136	An experimental data set for benchmarking 1-D, transient heat and moisture transfer models of hygroscopic building materials. Part I: Experimental facility and material property data. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4527-4539	4.9	76
135	Expected energy and economic benefits, and environmental impacts for liquid-to-air membrane energy exchangers (LAMEEs) in HVAC systems: A review. <i>Applied Energy</i> , 2014 , 127, 202-218	10.7	71
134	State-of-the-art in liquid-to-air membrane energy exchangers (LAMEEs): A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 39, 700-728	16.2	69
133	Applicability and optimum control strategy of energy recovery ventilators in different climatic conditions. <i>Energy and Buildings</i> , 2010 , 42, 1376-1385	7	69
132	Annual evaluation of energy, environmental and economic performances of a membrane liquid desiccant air conditioning system with/without ERV. <i>Applied Energy</i> , 2014 , 116, 134-148	10.7	67
131	Comparison of experimental data and a model for heat and mass transfer performance of a liquid-to-air membrane energy exchanger (LAMEE) when used for air dehumidification and salt solution regeneration. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 68, 119-131	4.9	66
130	Transient behavior of run-around heat and moisture exchanger system. Part II—Model formulation and verification. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 6000-6011	4.9	61

129	Analytical model based performance evaluation, sizing and coupling flow optimization of liquid desiccant run-around membrane energy exchanger systems. <i>Energy and Buildings</i> , 2013 , 62, 248-257	7	59
128	Generation of entropy in micro thermofluidic and thermochemical energy systems-A critical review. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 163, 120471	4.9	59
127	Numerical model of a small-scale liquid-to-air membrane energy exchanger: Parametric study of membrane resistance and air side convective heat transfer coefficient. <i>Applied Thermal Engineering</i> , 2013 , 61, 245-258	5.8	58
126	Design and testing of a novel 3-fluid liquid-to-air membrane energy exchanger (3-fluid LAMEE). <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 312-329	4.9	57
125	Thermo-economic performance of a solar membrane liquid desiccant air conditioning system. <i>Solar Energy</i> , 2014 , 102, 56-73	6.8	57
124	Crystallization fouling of CaCO ₃ [Analysis of experimental thermal resistance and its uncertainty. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6927-6937	4.9	56
123	Steady-state performance of a run-around membrane energy exchanger (RAMEE) for a range of outdoor air conditions. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 1814-1824	4.9	56
122	An experimental data set for benchmarking 1-D, transient heat and moisture transfer models of hygroscopic building materials. Part II: Experimental, numerical and analytical data. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 4915-4926	4.9	55
121	Research and applications of liquid-to-air membrane energy exchangers in building HVAC systems at University of Saskatchewan: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 26, 464-479	16.2	53
120	A theoretical model to predict frosting limits in cross-flow air-to-air flat plate heat/energy exchangers. <i>Energy and Buildings</i> , 2016 , 110, 404-414	7	51
119	Combined heat and mass transfer for laminar flow of moist air in a 3D rectangular duct: CFD simulation and validation with experimental data. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 3091-3102	4.9	51
118	+Transient characteristics of a liquid-to-air membrane energy exchanger (LAMEE) experimental data with correlations. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6682-6694	4.9	47
117	Uncertainties in energy and economic performance of HVAC systems and energy recovery ventilators due to uncertainties in building and HVAC parameters. <i>Applied Thermal Engineering</i> , 2013 , 50, 732-742	5.8	47
116	The elastic and moisture transfer properties of polyethylene and polypropylene membranes for use in liquid-to-air energy exchangers. <i>Journal of Membrane Science</i> , 2007 , 302, 136-149	9.6	46
115	Numerical and experimental data set for benchmarking hygroscopic buffering models. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3638-3654	4.9	45
114	Energy consumption and ventilation performance of a naturally ventilated ecological house in a cold climate. <i>Energy and Buildings</i> , 2005 , 37, 23-35	7	44
113	Solution-side effectiveness for a liquid-to-air membrane energy exchanger used as a dehumidifier/regenerator. <i>Applied Energy</i> , 2014 , 113, 872-882	10.7	43
112	Heat and Mass Transfer between Indoor Air and a Permeable and Hygroscopic Building Envelope: Part I [Field Measurements. <i>Journal of Thermal Envelope and Building Science</i> , 2004 , 28, 63-101		43

111	Small-scale single-panel liquid-to-air membrane energy exchanger (LAMEE) test facility development, commissioning and evaluating the steady-state performance. <i>Energy and Buildings</i> , 2013 , 66, 424-436	7	42
110	Reliability of material data measurements for hygroscopic buffering. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 5355-5363	4.9	41
109	Effect of initial conditions, boundary conditions and thickness on the moisture buffering capacity of spruce plywood. <i>Energy and Buildings</i> , 2006 , 38, 1283-1292	7	41
108	Numerical modeling of fluid flow and coupled heat and mass transfer in a counter-cross-flow parallel-plate liquid-to-air membrane energy exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1258-1276	4.9	40
107	Application of humidity sensors and an interactive device. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 93-101	8.5	40
106	Evaluation of defrosting methods for air-to-air heat/energy exchangers on energy consumption of ventilation. <i>Applied Energy</i> , 2015 , 151, 32-40	10.7	39
105	Sensitivity of the performance of a flat-plate liquid-to-air membrane energy exchanger (LAMEE) to the air and solution channel widths and flow maldistribution. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 84, 1082-1100	4.9	39
104	Effectiveness of energy wheels from transient measurements. Part I: Prediction of effectiveness and uncertainty. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 52-62	4.9	39
103	Heat and Moisture Transfer in Energy Wheels During Sorption, Condensation, and Frosting Conditions. <i>Journal of Heat Transfer</i> , 1998 , 120, 699-708	1.8	39
102	Convective mass transfer coefficient for a hydrodynamically developed airflow in a short rectangular duct. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2376-2393	4.9	38
101	Performance of a Run-Around System for HVAC Heat and Moisture Transfer Applications Using Cross-Flow Plate Exchangers Coupled with Aqueous Lithium Bromide. <i>HVAC and R Research</i> , 2006 , 12, 313-336		38
100	Performance testing of a novel 3-fluid liquid-to-air membrane energy exchanger (3-fluid LAMEE) under desiccant solution regeneration operating conditions. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 95, 773-786	4.9	37
99	Measuring and modeling vapor boundary layer growth during transient diffusion heat and moisture transfer in cellulose insulation. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 3319-3330	4.9	37
98	Coupled CFD and radiation simulation of air gaps in bench top protective fabric tests. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 526-539	4.9	36
97	Modeling CaCO ₃ crystallization fouling on a heat exchanger surface [Definition of fouling layer properties and model parameters. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 83, 84-98	4.9	34
96	Transient behavior of run-around heat and moisture exchanger system. Part I—Sensitivity studies for a range of initial conditions. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 6012-6020	4.9	32
95	Performance of a quasi-counter-flow air-to-air membrane energy exchanger in cold climates. <i>Energy and Buildings</i> , 2016 , 119, 129-142	7	31
94	Heat and Moisture Transfer in Desiccant Coated Rotary Energy Exchangers: Part I. Numerical Model. <i>HVAC and R Research</i> , 1997 , 3, 325-350		30

93	Heat and Mass Transfer between Indoor Air and a Permeable and Hygroscopic Building Envelope: Part II Verification and Numerical Studies. <i>Journal of Thermal Envelope and Building Science</i> , 2004 , 28, 161-185		30
92	Energy transfer and energy saving potentials of air-to-air membrane energy exchanger for ventilation in cold climates. <i>Energy and Buildings</i> , 2017 , 135, 95-108	7	29
91	Material properties and measurements for semi-permeable membranes used in energy exchangers. <i>Journal of Membrane Science</i> , 2014 , 453, 328-336	9.6	28
90	Application of neural networks to predict the steady state performance of a Run-Around Membrane Energy Exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 1628-1641	4.9	28
89	Capacity matching in heat-pump membrane liquid desiccant air conditioning systems. <i>International Journal of Refrigeration</i> , 2014 , 48, 166-177	3.8	27
88	Transient heat and moisture transfer characteristics of a liquid-to-air membrane energy exchanger (LAMEE) model verification and extrapolation. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 66, 757-771	4.9	26
87	Effectiveness of energy wheels from transient measurements: Part II Results and verification. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 63-77	4.9	25
86	Determination of air-to-air heat wheel sensible effectiveness using temperature step change data. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 312-326	4.9	23
85	Performance testing of 2-fluid and 3-fluid liquid-to-air membrane energy exchangers for HVAC applications in cold dry climates. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 106, 558-569	4.9	23
84	CFD modelling of CaCO ₃ crystallization fouling on heat transfer surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 618-630	4.9	23
83	Energetic, economic and environmental analysis of a health-care facility HVAC system equipped with a run-around membrane energy exchanger. <i>Energy and Buildings</i> , 2014 , 69, 112-121	7	21
82	Testing and modelling of a novel ceiling panel for maintaining space relative humidity by moisture transfer. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3961-3968	4.9	21
81	Experimental methods for detecting frosting in cross-flow air-to-air energy exchangers. <i>Experimental Thermal and Fluid Science</i> , 2016 , 77, 100-115	3	21
80	Contaminant transfer in run-around membrane energy exchangers. <i>Energy and Buildings</i> , 2014 , 70, 94-105		19
79	Modeling of the packed bed drying of paddy rice using the local volume averaging (LVA) approach. <i>Food Research International</i> , 2006 , 39, 712-720	7	19
78	Life cycle assessment of residential ventilation units in a cold climate. <i>Building and Environment</i> , 2005 , 40, 15-27	6.5	19
77	Performance investigation of liquid-to-air membrane energy exchanger under low solution/air heat capacity rates ratio conditions. <i>Building Services Engineering Research and Technology</i> , 2015 , 36, 535-545	2.3	18
76	Heat and mass transfer performance comparison between a direct-contact liquid desiccant packed bed and a liquid-to-air membrane energy exchanger for air dehumidification. <i>Science and Technology for the Built Environment</i> , 2017 , 23, 2-15	1.8	18

75	Heat and Moisture Transfer in Desiccant Coated Rotary Energy Exchangers: Part II. Validation and Sensitivity Studies. <i>HVAC and R Research</i> , 1997 , 3, 351-368		18
74	Moisture Performance of an Airtight, Vapor-permeable Building Envelope in a Cold Climate. <i>Journal of Thermal Envelope and Building Science</i> , 2005 , 28, 205-226		18
73	Sorption Study of a Starch Biopolymer as an Alternative Desiccant for Energy Wheels. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1262-1273	8.3	17
72	Determination of air-to-air energy wheels latent effectiveness using humidity step test data. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 501-515	4.9	16
71	Measurement of convective heat transfer coefficients in a randomly packed bed of silica gel particles using IHTP analysis. <i>Applied Thermal Engineering</i> , 2016 , 106, 361-370	5.8	15
70	Energy performance comparison of a 3-fluid and 2-fluid liquid desiccant membrane air-conditioning systems in an office building. <i>Energy</i> , 2019 , 176, 437-456	7.9	14
69	A frosting limit model of air-to-air quasi-counter-flow membrane energy exchanger for use in cold climates. <i>Applied Thermal Engineering</i> , 2017 , 111, 776-785	5.8	14
68	Transient Humidity Measurements Part I: Sensor Calibration and Characteristics. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 1074-1079	5.2	14
67	A Field Study of a Low-Flow Internally Cooled/Heated Liquid Desiccant Air Conditioning System: Quasi-Steady and Transient Performance. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016 , 138,	2.3	14
66	Development of a small-scale test facility for effectiveness evaluation of fixed-bed regenerators. <i>Applied Thermal Engineering</i> , 2020 , 174, 115263	5.8	12
65	Applicability of a heat and moisture transfer panel (HAMP) for maintaining space relative humidity in an office building using TRNSYS. <i>Energy and Buildings</i> , 2013 , 66, 338-345	7	12
64	Application of neural networks to predict the transient performance of a Run-Around Membrane Energy Exchanger for yearly non-stop operation. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5403-5416	4.9	12
63	Experimental Effectiveness Investigation of Liquid-to-air Membrane Energy Exchangers under Low Heat Capacity Rates Conditions. <i>Experimental Heat Transfer</i> , 2016 , 29, 445-455	2.4	12
62	Detection of crystallization fouling in a liquid-to-air membrane energy exchanger. <i>Experimental Thermal and Fluid Science</i> , 2018 , 92, 33-45	3	11
61	Steady-State Performance of a Small-Scale Liquid-to-Air Membrane Energy Exchanger for Different Heat and Mass Transfer Directions, and Liquid Desiccant Types and Concentrations: Experimental and Numerical Data. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	11
60	Effect of Axial Radiation on Heat Transfer in a Thermally and Hydrodynamically Developing Flow between Parallel Plates. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007 , 52, 911-934	2.3	11
59	Thermal hysteresis in fibrous insulation. <i>International Journal of Heat and Mass Transfer</i> , 1993 , 36, 4433-4441	4.9	10
58	A methodology for scaling a small-scale energy exchanger performance results to a full-scale energy exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 82, 555-567	4.9	9

57	Transient Humidity Measurements: Part II Determination of the Characteristics of an Interactive Device. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 1080-1086	5.2	9
56	Dehumidification performance investigation of run-around membrane energy exchanger system. <i>Thermal Science</i> , 2016 , 20, 1927-1938	1.2	9
55	A comprehensive review of dehumidifiers and regenerators for liquid desiccant air conditioning system. <i>Energy Conversion and Management</i> , 2021 , 240, 114234	10.6	9
54	Characterization of the Evolution of Crystallization Fouling in Membranes. <i>ACS Omega</i> , 2018 , 3, 17188-17198	3.9	9
53	Water Vapor Adsorption-Desorption Behavior of Surfactant-Coated Starch Particles for Commercial Energy Wheels. <i>ACS Omega</i> , 2019 , 4, 14378-14389	3.9	8
52	Hydration and Sorption Properties of Raw and Milled Flax Fibers. <i>ACS Omega</i> , 2020 , 5, 6113-6121	3.9	8
51	Starch Particles, Energy Harvesting, and the "Goldilocks Effect". <i>ACS Omega</i> , 2018 , 3, 3796-3803	3.9	8
50	Investigating similarity between a small-scale liquid-to-air membrane energy exchanger (LAMEE) and a full-scale (100 L/s) LAMEE: Experimental and numerical results. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 464-474	4.9	8
49	Thermal performance and hysteresis in fibrous insulation exposed to moisture and step changes in the cold temperature boundary condition. <i>Energy and Buildings</i> , 1994 , 21, 251-257	7	8
48	Comparison of the Moisture Adsorption Properties of Starch Particles and Flax Fiber Coatings for Energy Wheel Applications. <i>ACS Omega</i> , 2020 , 5, 9529-9539	3.9	7
47	Application of indirect non-invasive methods to detect the onset of crystallization fouling in a liquid-to-air membrane energy exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 663-673	4.9	7
46	Study of Dehumidification and Regeneration in a Starch Coated Energy Wheel. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 221-231	8.3	7
45	Tests of a Novel Ceiling Panel for Maintaining Space Relative Humidity by Moisture Transfer from an Aqueous Salt Solution. <i>Journal of ASTM International</i> , 2009 , 6, 102034		7
44	3D computational fluid dynamics simulation of a 3-fluid liquid-to-air membrane energy exchanger (LAMEE). <i>Applied Thermal Engineering</i> , 2019 , 153, 501-512	5.8	6
43	Vapor Adsorption Transient Test Facility for Dehumidification and Desorption Studies 2018 , 9, 1092		6
42	Fixed Bed Regenerators for HVAC Applications. <i>Proceedings (mdpi)</i> , 2019 , 23, 4	0.3	6
41	Effects of Physical and Sorption Properties of Desiccant Coating on Performance of Energy Wheels. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	5
40	Steady-State Performance of a Prototype (200 cfm) Liquid-to-Air Membrane Energy Exchanger (LAMEE) Under Summer and Winter Test Conditions 2013 ,		5

39	Measurement of Heat Transfer Enhancement and Pressure Drop Across Eddy Promoter Air Screens in a Liquid-to-Air-Membrane Energy Exchanger (LAMEE) 2013 ,		5
38	Run-Around Energy Recovery System for Air-to-Air Applications Using Cross-Flow Exchangers Coupled with a Porous Solid Desiccant Part I: Model Development and Verification. <i>HVAC and R Research</i> , 2009 , 15, 537-559		5
37	Experimental investigation on thermo-hydraulic performance of triangular cross-corrugated flow passages. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 122, 105160	5.8	5
36	Effects of Heat Loss/Gain on the Transient Testing of Heat Wheels. <i>Journal of Thermal Science and Engineering Applications</i> , 2016 , 8,	1.9	5
35	An analytical model for predicting frosting limit in membranes. <i>International Journal of Refrigeration</i> , 2019 , 99, 316-326	3.8	5
34	Optimal design, sizing and operation of heat-pump liquid desiccant air conditioning systems. <i>Science and Technology for the Built Environment</i> , 2020 , 26, 161-176	1.8	5
33	Transient sensor errors and their impact on fixed-bed regenerator (FBR) testing standards. <i>Science and Technology for the Built Environment</i> , 2021 , 27, 656-678	1.8	5
32	A transient numerical model for sensible fixed-bed regenerator in HVAC applications. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 177, 121550	4.9	5
31	Performance Definitions for Three-Fluid Heat and Moisture Exchangers. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	4
30	Experimental Pressure Drop and Heat Transfer in a Rectangular Channel With a Sinusoidal Porous Screen. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	4
29	Vapour and Solution Uptake Properties of Starch and Cellulose Biopolymers. <i>Journal of Geoscience and Environment Protection</i> , 2018 , 06, 101-117	0.3	4
28	COP Evaluation for a Membrane Liquid Desiccant Air Conditioning System Using Four Different Heating Equipment		4
27	A New Approach to Delay or Prevent Frost Formation in Membranes. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	4
26	Flax Biomass Conversion via Controlled Oxidation: Facile Tuning of Physicochemical Properties. <i>Bioengineering</i> , 2020 , 7,	5.3	3
25	Convective Mass Transfer Coefficients for Gypsum and Wood Paneling. <i>Journal of ASTM International</i> , 2009 , 6, 102036		3
24	Effectiveness of Fixed-Bed Regenerators for Energy Recovery in Buildings Applications. <i>E3S Web of Conferences</i> , 2020 , 172, 09001	0.5	3
23	Extension of the Concepts of Heat Capacity Rate Ratio and Effectiveness-Number of Transfer Units Model to the Coupled Heat and Moisture Exchange in Liquid-to-Air Membrane Energy Exchangers. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	3
22	Experimental methods to determine the performance of desiccant coated fixed-bed regenerators (FBRs). <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 121909	4.9	3

21	Heat and Energy Wheels 2007 , 794-800		2
20	The mechanisms of frost formation on a semipermeable membrane. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 182, 121912	4.9	2
19	Calibration of indirect methods to detect the onset of fouling in a liquid-to-air membrane energy exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 151, 118885	4.9	2
18	Methodologies for Predicting the Effectiveness of Full-Scale Fixed-Bed Regenerators From Small-Scale Test Data. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	2
17	Evaluation of the frost properties on a semipermeable membrane. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 435-444	4.9	2
16	Thermo-Economic Performance of a Cogeneration Medium-Small Modular Nuclear Reactor Plant in Canada. <i>Journal of Nuclear Engineering and Radiation Science</i> , 2017 , 3,	1.1	1
15	Surface Patterning of Stainless Steel in Prevention of Fouling in Heat Transfer Equipment. <i>Materials Science Forum</i> , 2013 , 762, 493-500	0.4	1
14	CFD Modelling With Buoyancy Effects for a Heat and Moisture Transfer Ceiling Panel 2011 ,		1
13	Run-Around Energy Recovery System for Air-to-Air Applications Using Cross-Flow Exchangers Coupled with a Porous Solid Desiccant-Part II: Results and Performance Sensitivity. <i>HVAC and R Research</i> , 2009 , 15, 561-582		1
12	A transient numerical model for desiccant-coated fixed-bed regenerators and compensation for transient sensor errors. <i>Science and Technology for the Built Environment</i> ,1-21	1.8	1
11	Performance Improvement of Membrane Energy Exchanger using Ultrasound for HVAC Application. <i>Journal of Thermal Science and Engineering Applications</i> ,1-29	1.9	1
10	Energy Exchangers: Run-Around Membrane 2014 , 630-636		1
9	Influence of Plate Geometry on Thermohydraulic Performance of Fixed-Bed Regenerators. <i>Journal of Fluid Flow, Heat and Mass Transfer</i> ,		1
8	Suitability of bio-desiccants for energy wheels in HVAC applications. <i>Building and Environment</i> , 2021 , 206, 108369	6.5	0
7	A model for predicting the effect of crystallization fouling on moisture transfer in membrane energy exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 191, 122844	4.9	0
6	Designing and thermodynamic optimization of a novel combined absorption cooling and power cycle based on a water-ammonia mixture. <i>Energy</i> , 2022 , 253, 124076	7.9	0
5	Retraction notice to [1] developed procedure to predict annual heating energy by heat-and energy recovery technologies in different climate European countries [2] <i>Energy and Buildings</i> , 2018 , 167, 384	7	
4	TRANSIENT OPERATION OF SENSIBLE FIXED-BED REGENERATORS. <i>Journal of Thermal Science and Engineering Applications</i> ,1-16	1.9	

3 Heat and Moisture Transfer Panels **2014**, 817-821

2 Heat and Energy Wheels **2014**, 810-816

1 ICONE23-2109 DESIGN AND PERFORMANCE EVALUATION OF A HEAT EXCHANGER NETWORK FOR A CO-GENERATION SMR TO VARIOUS THERMAL UTILIZATION APPLICATIONS. *The Proceedings of the International Conference on Nuclear Engineering (ICONE)*, **2015**, 2015.23, _ICONE23-2-_ICONE23-2

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