Velraj Ramalingam

List of Publications by Citations

185	7,481	47	81
papers	citations	h-index	g-index
197	8,732	5.2	6.65
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
185	HEAT TRANSFER ENHANCEMENT IN A LATENT HEAT STORAGE SYSTEM. *Solar Energy*, **1999**, 65, 171-180	6.8	358
184	Phase change material-based building architecture for thermal management in residential and commercial establishments. *Renewable and Sustainable Energy Reviews*, **2008**, 12, 39-64	16.2	340
183	Experimental investigation on a combined sensible and latent heat storage system integrated with constant/varying (solar) heat sources. *Renewable Energy*, **2007**, 32, 1206-1227	8.1	274
182	Performance and exhaust emission characteristics of a CI engine fueled with Pongamia pinnata methyl ester (PPME) and its blends with diesel. *Renewable Energy*, **2008**, 33, 2294-2302	8.1	230
181	Effect of double layer phase change material in building roof for year round thermal management. *Energy and Buildings*, **2008**, 40, 193-203	7	214
180	Influence of alumina nanoparticles, ethanol and isopropanol blend as additive with diesel–soybean biodiesel blend fuel: Combustion, engine performance and emissions. *Renewable Energy*, **2015**, 80, 655-663	8.1	210
179	Experimental investigation on heat recovery from diesel engine exhaust using finned shell and tube heat exchanger and thermal storage system. *Applied Energy*, **2011**, 88, 77-87	10.7	200
178	A review on compressed air energy storage – A pathway for smart grid and polygeneration. *Renewable and Sustainable Energy Reviews*, **2016**, 62, 895-907	16.2	183
177	Experimental analysis and numerical modelling of inward solidification on a finned vertical tube for a latent heat storage unit. *Solar Energy*, **1997**, 60, 281-290	6.8	181
176	Experimental investigation and numerical simulation analysis on the thermal performance of a building roof incorporating phase change material (PCM) for thermal management. *Applied Thermal Engineering*, **2008**, 28, 556-565	5.8	177
175	Experimental investigation of the thermo-physical properties of water–ethylene glycol mixture based CNT nanofluids. *Thermochimica Acta*, **2012**, 545, 180-186	2.9	175
174	Mitigation of NOx emissions from a jatropha biodiesel fuelled DI diesel engine using antioxidant additives. *Fuel*, **2011**, 90, 2721-2725	7.1	172
173	Review on free cooling of buildings using phase change materials. *Renewable and Sustainable Energy Reviews*, **2010**, 14, 2819-2829	16.2	166
172	Review of solar cooling methods and thermal storage options. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 3220-3228	16.2	165
171	Optimization of biodiesel production from Manilkara zapota (L.) seed oil using Taguchi method. *Fuel*, **2015**, 140, 90-96	7.1	128
170	Solar cookers with and without thermal storage–A review. *Renewable and Sustainable Energy Reviews*, **2010**, 14, 691-701	16.2	126
169	Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends–A review. *Renewable and Sustainable Energy Reviews*, **2015**, 49, 563-573	16.2	122

168	Productivity enhancements of compound parabolic concentrator tubular solar stills. *Renewable Energy*, **2016**, 88, 391-400	8.1	116
167	The effect of carbon nanotubes in enhancing the thermal transport properties of PCM during solidification. *Heat and Mass Transfer*, **2012**, 48, 1345-1355	2.2	116
166	Experimental investigation on phase change material based thermal storage system for solar air heating applications. *Solar Energy*, **2013**, 88, 144-153	6.8	111
165	Thermal management of electronics: A review of literature. *Thermal Science*, **2008**, 12, 5-26	1.2	105
164	Role of PCM based nanofluids for energy efficient cool thermal storage system. *International Journal of Refrigeration*, **2013**, 36, 1641-1647	3.8	99
163	Performance studies of a solar parabolic trough collector with a thermal energy storage system. *Energy*, **2012**, 47, 395-402	7.9	96
162	Enhanced heat transfer characteristics of water based copper oxide nanofluid PCM (phase change material) in a spherical capsule during solidification for energy efficient cool thermal storage system. *Energy*, **2014**, 72, 636-642	7.9	88
161	Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models. *Renewable and Sustainable Energy Reviews*, **2018**, 90, 536-556	16.2	82
160	Parametric studies on packed bed storage unit filled with PCM encapsulated spherical containers for low temperature solar air heating applications. *Energy Conversion and Management*, **2014**, 78, 74-80	10.6	80
159	Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors. *Renewable and Sustainable Energy Reviews*, **2017**, 77, 1363-1374	16.2	78
158	A review of efficient high productivity solar stills. *Renewable and Sustainable Energy Reviews*, **2019**, 101, 197-220	16.2	74
157	Heat transfer and pressure drop studies on a PCM-heat exchanger module for free cooling applications. *International Journal of Thermal Sciences*, **2011**, 50, 1573-1582	4.1	73
156	Thermal analysis of a finned-tube LHTS module for a solar dynamic power system. *Heat and Mass Transfer*, **2002**, 38, 409-417	2.2	67
155	Effect of heat removal on tubular solar desalting system. *Desalination*, **2016**, 379, 24-33	10.3	65
154	Performance analysis on industrial refrigeration system integrated with encapsulated PCM-based cool thermal energy storage system. *International Journal of Energy Research*, **2007**, 31, 1398-1413	4.5	65
153	Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production. *Journal of Cleaner Production*, **2019**, 210, 388-400	10.3	65
152	A 50 year review of basic and applied research in compound parabolic concentrating solar thermal collector for domestic and industrial applications. *Solar Energy*, **2019**, 187, 293-340	6.8	60
151	Experimental study on a parabolic concentrator assisted solar desalting system. *Energy Conversion and Management*, **2015**, 105, 665-674	10.6	60

150	Augmenting the productivity of solar still using multiple PCMs as heat energy storage. *Journal of Energy Storage*, **2019**, 26, 101019	7.8	59
149	Studies on pumping power in terms of pressure drop and heat transfer characteristics of compact plate-fin heat exchangers A review. *Renewable and Sustainable Energy Reviews*, **2010**, 14, 478-485	16.2	59
148	Thermal Analysis of D-mannitol for Use as Phase Change Material for Latent Heat Storage. *Journal of Applied Sciences*, **2011**, 11, 3044-3048	0.3	58
147	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation. *Journal of Cleaner Production*, **2018**, 195, 1149-1161	10.3	58
146	Review on phase change material based free cooling of buildings The way toward sustainability. *Journal of Energy Storage*, **2015**, 4, 74-88	7.8	57
145	Convective heat transfer characteristics of secondary refrigerant based CNT nanofluids in a tubular heat exchanger. *International Journal of Refrigeration*, **2012**, 35, 2287-2296	3.8	57
144	Numerical investigation of packed bed storage unit filled with PCM encapsulated spherical containers A comparison between various mathematical models. *International Journal of Thermal Sciences*, **2012**, 60, 153-160	4.1	56
143	Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate. *Renewable Energy*, **2018**, 127, 213-229	8.1	53
142	Convective heat transfer characteristics of CNT nanofluids in a tubular heat exchanger of various lengths for energy efficient cooling/heating system. *International Journal of Heat and Mass Transfer* , **2013**, 60, 413-421	4.9	53
141	Passive cooling potential in buildings under various climatic conditions in India. *Renewable and Sustainable Energy Reviews*, **2017**, 78, 1236-1252	16.2	49
140	Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review. *Journal of Cleaner Production*, **2019**, 207, 826-845	10.3	49
139	Solidification characteristics of water based graphene nanofluid PCM in a spherical capsule for cool thermal energy storage applications. *International Journal of Refrigeration*, **2016**, 66, 73-83	3.8	48
138	Wake prediction of horizontal-axis wind turbine using full-rotor modeling. *Journal of Wind Engineering and Industrial Aerodynamics*, **2014**, 124, 7-19	3.7	47
137	Solidification behavior of water based nanofluid phase change material with a nucleating agent for cool thermal storage system. *International Journal of Refrigeration*, **2014**, 41, 157-163	3.8	47
136	Heat Transfer Enhancement Study of a LHTS Unit Containing Dispersed High Conductivity Particles. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2002**, 124, 243-249	2.3	44
135	Experimental energy and exergy analysis of a flat plate solar air heater with a new design of integrated sensible heat storage. *Energy*, **2016**, 111, 609-619	7.9	43
134	Biogas: can it be an important source of energy?. *Environmental Science and Pollution Research*, **2007**, 14, 67-71	5.1	42
133	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. *Applied Thermal Engineering*, **2019**, 148, 1416-1424	5.8	41

132	Stability, viscosity, thermal conductivity, and electrical conductivity enhancement of multi-walled carbon nanotube nanofluid using gum arabic. *Fullerenes Nanotubes and Carbon Nanostructures*, **2017**, 25, 230-240	1.8	38
131	Analysis of the heat transfer mechanisms during energy storage in a Phase Change Material filled vertical finned cylindrical unit for free cooling application. *Energy Conversion and Management*, **2013**, 75, 466-473	10.6	38
130	Experimental investigation on heat transfer and pressure drop of MWCNT - Solar glycol based nanofluids in shot peened double pipe heat exchanger. *Powder Technology*, **2019**, 345, 815-824	5.2	35
129	Second law analysis of a diesel engine waste heat recovery with a combined sensible and latent heat storage system. *Energy Policy*, **2011**, 39, 6011-6020	7.2	35
128	Effects of the properties and the structural configurations of fatty acid methyl esters on the properties of biodiesel fuel: a review. *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, **2015**, 229, 357-390	1.4	34
127	Role of PCM addition on stratification behaviour in a thermal storage tank An experimental study. *Energy*, **2016**, 115, 1168-1178	7.9	34
126	Studies on Fanning Friction (f) and Colburn (j) Factors of Offset and Wavy Fins Compact Plate Fin Heat Exchanger A CFD Approach. *Numerical Heat Transfer; Part A: Applications*, **2009**, 56, 987-1005	2.3	34
125	Influence of the size of spherical capsule on solidification characteristics of DI (deionized water) water for a cool thermal energy storage system An experimental study. *Energy*, **2015**, 90, 807-813	7.9	31
124	Sub cooling of PCM due to various effects during solidification in a vertical concentric tube thermal storage unit. *Applied Thermal Engineering*, **2013**, 52, 505-511	5.8	31
123	Characteristics investigation on thermophysical properties of synthesized activated carbon nanoparticles dispersed in solar glycol. *International Journal of Thermal Sciences*, **2019**, 136, 15-32	4.1	31
122	Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit. *Energy*, **2018**, 144, 443-455	7.9	31
121	Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system. *Journal of Energy Storage*, **2016**, 6, 70-79	7.8	29
120	Experimental and numerical studies on the wake behavior of a horizontal axis wind turbine. *Journal of Wind Engineering and Industrial Aerodynamics*, **2014**, 128, 54-65	3.7	29
119	Comparison of interfacial heat transfer coefficient estimated by two different techniques during solidification of cylindrical aluminum alloy casting. *Heat and Mass Transfer*, **2008**, 44, 1025-1034	2.2	29
118	Influence of crescent shaped absorber in water desalting system. *Desalination*, **2016**, 398, 208-213	10.3	29
117	An experimental investigation on passive cooling system comprising phase change material and two-phase closed thermosyphon for telecom shelters in tropical and desert regions. *Energy and Buildings*, **2010**, 42, 1726-1735	7	28
116	Heat Transfer Studies During Solidification of PCM Inside an Internally Finned Tube. *Journal of Heat Transfer*, **1999**, 121, 493-497	1.8	28
115	Study on performance of a packed bed latent heat thermal energy storage unit integrated with solar water heating system. *Journal of Zhejiang University: Science A*, **2006**, 7, 1422-1430	2.1	26

114	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit. *Desalination*, **2019**, 467, 1-11	10.3	25
113	Experimental investigation on thermophysical properties of solar glycol dispersed with multi-walled carbon nanotubes. *Fullerenes Nanotubes and Carbon Nanostructures*, **2016**, 24, 641-652	1.8	25
112	Experimental investigation of the LHS system and comparison of the stratification performance with the SHS system using CFD simulation. *Solar Energy*, **2014**, 103, 378-389	6.8	25
111	Experimental investigation and CFD analysis of a air cooled condenser heat pipe. *Thermal Science*, **2011**, 15, 759-772	1.2	25
110	Heat transfer enhancement using nanofluids: An overview. *Thermal Science*, **2012**, 16, 423-444	1.2	24
109	Experimental studies on solidification and subcooling characteristics of water-based phase change material (PCM) in a spherical encapsulation for cool thermal energy storage applications. *International Journal of Refrigeration*, **2019**, 100, 454-462	3.8	24
108	Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule An experimental study. *Energy*, **2015**, 90, 508-515	7.9	23
107	Experimental study on density, thermal conductivity, specific heat, and viscosity of water-ethylene glycol mixture dispersed with carbon nanotubes. *Thermal Science*, **2017**, 21, 255-265	1.2	22
106	Experimental analysis and comparison of flat plate solar air heater with and without integrated sensible heat storage. *Renewable Energy*, **2020**, 150, 255-265	8.1	22
105	Experimental Investigation of a Cascaded Latent Heat Storage System for Diesel Engine Waste Heat Recovery. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2015**, 37, 1308-1317	1.6	21
104	Investigation on Phase Change Behavior of Paraffin Phase Change Material in a Spherical Capsule for Solar Thermal Storage Units. *Heat Transfer Engineering*, **2018**, 39, 775-783	1.7	21
103	Numerical and Experimental Investigation on a Combined Sensible and Latent Heat Storage Unit Integrated With Solar Water Heating System. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2009**, 131,	2.3	21
102	Experimental and parametric studies of a louvered fin and flat tube compact heat exchanger using computational fluid dynamics. *AEJ - Alexandria Engineering Journal*, **2015**, 54, 905-915	6.1	20
101	Combustion, performance and emission characteristics of an unmodified diesel engine fueled with Manilkara Zapota Methyl Ester and its diesel blends. *Applied Thermal Engineering*, **2018**, 139, 196-202	5.8	20
100	Renewable Energy Based Smart Microgrids A Pathway To Green Port Development. *Strategic Planning for Energy and the Environment*, **2017**, 37, 17-32	2.2	20
99	Effect of direct evaporative cooling during the charging process of phase change material based storage system for building free cooling application A real time experimental investigation. *Energy and Buildings*, **2017**, 152, 250-263	7	20
98	Heat transfer and parametric studies of an encapsulated phase change material based cool thermal energy storage system. *Journal of Zhejiang University: Science A*, **2006**, 7, 1886-1895	2.1	20
97	Heat carrier nanofluids in solar still - A review130, 1-16		20

96	Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept A parametric study. *Journal of Energy Storage*, **2019**, 21, 48-57	7.8	20
95	Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger. *Renewable Energy*, **2019**, 140, 580-591	8.1	19
94	Effect of parabolic solar energy collectors for water distillation. *Desalination and Water Treatment*, **2016**, 57, 21234-21242		19
93	Thermal and electrical conductivity enhancement of solar glycol-water mixture containing MWCNTs. *Fullerenes Nanotubes and Carbon Nanostructures*, **2018**, 26, 871-879	1.8	19
92	Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater. *Desalination*, **2020**, 484, 114422	10.3	18
91	Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting. *Phase Transitions*, **2018**, 91, 254-270	1.3	18
90	Effect of aspect ratio and dispersed PCM balls on the charging performance of a latent heat thermal storage unit for solar thermal applications. *Renewable Energy*, **2020**, 148, 876-888	8.1	18
89	Experimental and numerical investigation of solar flat plate cooking unit for domestic applications. *Energy*, **2018**, 157, 436-447	7.9	17
88	Effect of porosity and the inlet heat transfer fluid temperature variation on the performance of cool thermal energy storage system. *Heat and Mass Transfer*, **2007**, 43, 833-842	2.2	17
87	GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities a case of the Port of Chennai. *Carbon Management*, **2017**, 8, 45-56	3.3	16
86	Parametric Study of Solar Parabolic Trough Collector System. *Asian Journal of Applied Sciences*, **2012**, 5, 384-393	0.4	16
85	Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings. *Journal of Building Physics*, **2020**, 43, 351-364	2.6	16
84	Experimental investigation on small capacity compressed air energy storage towards efficient utilization of renewable sources. *Journal of Energy Storage*, **2018**, 20, 364-370	7.8	16
83	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. *Journal of Environmental Management*, **2021**, 290, 112668	7.9	16
82	Experimental study on thermal properties and electrical conductivity of stabilized HO-solar glycol mixture based multi-walled carbon nanotube nanofluids: developing a new correlation. *Heliyon*, **2019**, 5, e02385	3.6	15
81	CFD analysis of flow and geometric parameter for a double walled solar cooking unit. *Applied Mathematical Modelling*, **2015**, 39, 137-146	4.5	15
80	Effect of shot peening on enhancing the heat transfer performance of a tubular heat exchanger. *International Journal of Thermal Sciences*, **2019**, 139, 1-14	4.1	14
79	Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings. *Advances in Building Energy Research*, **2018**, 12, 139-149	1.8	14

78	Studies on Regime Transition, Operating Range and System Stability in a Liquid-Solid Circulating Fluidized Bed. *Chemical Engineering and Technology*, **2009**, 32, 572-579	2	14
77	Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system. *Solar Energy*, **2017**, 158, 837-844	6.8	13
76	Thermodynamic analysis on compressed air energy storage augmenting power / polygeneration for roundtrip efficiency enhancement. *Energy*, **2019**, 180, 107-120	7.9	13
75	Phase Change Material-Based Nanofluids for Heat Transfer Enhancement in Latent Heat Thermal Energy Storage System. *International Journal of Green Nanotechnology*, **2012**, 4, 541-546		13
74	Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions. *Energy*, **2020**, 192, 116695	7.9	13
73	Performance augmentation of solar photovoltaic panel through PCM integrated natural water circulation cooling technique. *Renewable Energy*, **2021**, 172, 1433-1448	8.1	13
72	Study of slip velocity and application of drift-flux model to slip velocity in a liquid–solid circulating fluidized bed. *Advanced Powder Technology*, **2011**, 22, 77-85	4.6	12
71	Augmented performance of solar desalination unit by utilization of nano-silicon coated glass cover for promoting drop-wise condensation. *Desalination*, **2021**, 515, 115191	10.3	12
70	Experimental Investigations on the Improvement of an Air Conditioning System with a Nanofluid-Based Intercooler. *Arabian Journal for Science and Engineering*, **2015**, 40, 1681-1693		11
69	Transient analysis of steam accumulator integrated with solar based MED-TVC system. *Desalination* , **2018**, 435, 3-22	10.3	11
68	Modeling and simulation of a parallel plate heat sink using computational fluid dynamics. *International Journal of Advanced Manufacturing Technology*, **2010**, 51, 415-419	3.2	10
67	Effect of various parameters on the solid circulation rate in a liquid–solid circulating fluidized bed. *Asia-Pacific Journal of Chemical Engineering*, **2008**, 3, 459-470	1.3	10
66	Harnessing Free Energy From Nature For Efficient Operation of Compressed Air Energy Storage System and Unlocking the Potential of Renewable Power Generation. *Scientific Reports*, **2018**, 8, 9981	4.9	9
65	APPLICATION OF DRIFT-FLUX MODEL IN LIQUID-SOLID CIRCULATING FLUIDIZED BED. *Chemical Engineering Communications*, **2008**, 195, 1144-1158	2.2	9
64	Effective PCM, insulation, natural and/or night ventilation techniques to enhance the thermal performance of buildings located in various climates – A review. *Energy and Buildings*, **2022**, 258, 111840	7	9
63	Melting/solidification characteristics of paraffin based nanocomposite for thermal energy storage applications. *Thermal Science*, **2017**, 21, 2517-2524	1.2	9
62	Enhancement of heat transfer in a combined solar air heating and water heater system. *Energy*, **2021**, 221, 119805	7.9	9
61	Free Cooling Potential and Technology Options for Thermal Energy Management of a Commercial Building in Bangalore City, India. *Energy Engineering: Journal of the Association of Energy Engineers*, **2014**, 111, 11-24	0.6	8

60	Experimental investigation on the phase change material-based modular heat exchanger for thermal management of a building. *International Journal of Green Energy*, **2016**, 13, 1109-1119	3	8
59	CFD studies on different configurations of drying chamber for thin-layer drying of leaves. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 42, 2227-2239	1.6	8
58	Hydrodynamic similarity in liquid–solid circulating fluidized bed risers. *Powder Technology*, **2014**, 264, 166-176	5.2	7
57	Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings. *Advances in Building Energy Research*, **2017**, 11, 282-304	1.8	7
56	A REVIEW OF THE ROLE OF PASSIVE TECHNIQUES ON HEAT TRANSFER ENHANCEMENT OF HORIZONTAL TUBE FALLING FILM AND FLOODED EVAPORATORS. *Journal of Enhanced Heat Transfer*, **2018**, 25, 239-282	1.7	7
55	Novel Concept of PCM Based Thermal Storage Integration in Active and Passive Cooling Systems for Energy Management in Buildings. *Energy Engineering: Journal of the Association of Energy Engineers*, **2013**, 110, 41-66	0.6	6
54	Experimental and numerical investigation of a louvered fin and elliptical tube compact heat exchanger. *Thermal Science*, **2015**, 19, 679-692	1.2	6
53	Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach87, 1-13		6
52	Sensible heat storage for solar heating and cooling systems **2016**, 399-428		5
51	Performance analysis of a small capacity compressed air energy storage system for renewable energy generation using TRNSYS. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 044106	2.5	5
50	Evaluation of renewable energy options for cooling applications. *International Journal of Energy Sector Management*, **2012**, 6, 65-74	2.5	5
49	An automotive radiator with multi-walled carbon-based nanofluids: A study on heat transfer optimization using MCDM techniques. *Case Studies in Thermal Engineering*, **2022**, 29, 101724	5.6	5
48	Selection of Heat Transfer Fluids for Solar Thermal Applications Using Multi-Criteria Decision-Making Tools. *Journal of Testing and Evaluation*, **2020**, 48, 20180539	1	5
47	Fanning friction (f) and colburn (j) factors of a louvered fin and flat tube compact heat exchanger. *Thermal Science*, **2017**, 21, 141-150	1.2	5
46	A study on the thermodynamic analysis of a cascaded latent heat storage system over the single storage tank system for diesel engine waste heat recovery. *International Journal of Exergy*, **2012**, 11, 349	1.2	4
45	Analytical solutions for planar and cylindrical axisymmetric melting with heat capacity effects of flowing stream and PCM. *International Communications in Heat and Mass Transfer*, **1998**, 25, 1041-1053	5.8	4
44	Heat transfer studies on solar still assisted with and without latent heat storage material140, 1-6		4
43	Numerical Investigation on the Effect of Tube Geometry and Feeder Height on the Heat Transfer Performance of Horizontal Tube Falling Film Evaporation. *Journal of Heat Transfer*, **2019**, 141,	1.8	4

42	Effect of shot blasting on droplet contact angle of carbon aided phase change nanocomposites. *Surface Engineering*, **2021**, 37, 1002-1011	2.6	4
41	Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate. *Thermal Science and Engineering Progress*, **2019**, 14, 100403	3.6	3
40	Numerical studies on the thermal regimes of the horizontal tube falling film evaporation under varying feeder height. *International Journal of Green Energy*, **2020**, 17, 895-911	3	3
39	A pathway towards sustainable development of small capacity horizontal axis wind turbines Identification of influencing design parameters & their role on performance analysis. *Sustainable Energy Technologies and Assessments*, **2021**, 44, 101019	4.7	3
38	Comparison of a real-time building with brick and exfoliated vermiculite using OpenStudio modeling for Indian climatic zones. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 41, 2334-2345	1.6	3
37	A case study of SARS-CoV-2 transmission behavior in a severely air-polluted city (Delhi, India) and the potential usage of graphene based materials for filtering air-pollutants and controlling/monitoring the COVID-19 pandemic. *Environmental Sciences: Processes and Impacts*, **2021**, 23, 923-946	4.3	3
36	Experimental study on the direct evaporative air-cooling system with vermicompost material as the water storage medium. *Sustainable Cities and Society*, **2021**, 71, 102991	10.1	3
35	Performance evaluation of phase change material integration in buildings using novel non-dimensional performance parameters for different cities and months in India. *Journal of Energy Storage*, **2021**, 42, 103015	7.8	3
34	Hydrodynamics of a Liquid–Solid Circulating Fluidized Bed: Effect of Solid Feed Pipe Diameter. *Indian Chemical Engineer*, **2015**, 57, 67-81	1	2
33	Numerical Investigations of Outward Solidification in Cylindrical PCM Storage Unit. *Applied Mechanics and Materials*, **2015**, 787, 177-181	0.3	2
32	Air Heating with Latent Heat Storage For Thermal Energy Management Of Solar Applications. *Distributed Generation and Alternative Energy Journal*, **2012**, 27, 20-35	0.3	2
31	Effect of Double Bond Equivalent of Biodiesels on their Heating Value and Cetane Number. *Asian Journal of Chemistry*, **2013**, 25, 8732-8736	0.4	2
30	CFD simulation studies and experimental validation on a parallel plate heat sink. *International Journal of Computer Aided Engineering and Technology*, **2011**, 3, 526	0.5	2
29	Experimental investigation on air cooler with thermal storage **2010**,		2
28	Mathematical Modeling and Experimental Study on Building Ceiling System Incorporating Phase Change Material (PCM) for Energy Conservation **2006**, 59		2
27	Evaluation of Thermal Properties of Cement-Exfoliated Vermiculite Blocks as Energy Efficient Building Envelope Material. *Journal of Testing and Evaluation*, **2019**, 47, 20170520	1	2
26	Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications. *Journal of Testing and Evaluation*, **2021**, 49, 20190722	1	2
25	A pathway towards healthy and naturally ventilated indoor built environment through phase change material and insulation techniques for office buildings in India. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*,095765092110564	1.6	2

24	Review on numerical algorithms for melting and solidification studies and their implementation in general purpose computational fluid dynamic software. *Journal of Energy Storage*, **2021**, 36, 102341	7.8	2
23	Thermophysical characterization and comparison of PCMs using DSC and T-History experimental setup. *Materials Research Express*, **2019**, 6, 125527	1.7	2
22	Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel through simulations of velocity contours. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 41, 2233-2245	1.6	2
21	Review on the electrical conductivity of nanofluids: Recent developments. *Materials Today: Proceedings*, **2021**, 39, 1532-1537	1.4	2
20	Experimental investigation on packed bed cool storage system for supply-demand management in building air-conditioning system suitable for micro thermal grid. *Thermal Science*, **2021**, 25, 95-106	1.2	2
19	Sustainability and Environmental Management: Emissions Accounting for Ports. *Strategic Planning for Energy and the Environment*, **2017**, 37, 8-26	2.2	1
18	Transient thermal management comparison of a microprocessor using PCMs in various configurations. *Journal of Thermal Science*, **2011**, 20, 516-520	1.9	1
17	Experimental Investigation on a Latent Heat Thermal Storage Unit for Solar Cooling Application. *Green*, **2011**, 1,		1
16	Role of PCM Based Nanofluids for Energy Efficient Thermal Storage in Electronic Cooling System **2012**,		1
15	Residential Air Conditioning System Integrated with Packed Bed Cool Storage Unit for Promoting Rooftop Solar PV Power Generation. *International Journal of Renewable Energy Development*, **2021**, 10, 239-247	1.5	1
14	Role of biodiesel with nanoadditives in port owned trucks and other vehicles for emission reduction. *Thermal Science*, **2017**, 21, 605-614	1.2	1
13	Natural-convection heat transfer enhancement of aluminum heat sink using nanocoating by electron beam method. *Thermal Science*, **2019**, 23, 3129-3141	1.2	1
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