

Velraj Ramalingam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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

#	Paper	IF	Citations
185	An automotive radiator with multi-walled carbon-based nanofluids: A study on heat transfer optimization using MCDM techniques. <i>Case Studies in Thermal Engineering</i> , 2022 , 29, 101724	5.6	5
184	Effective PCM, insulation, natural and/or night ventilation techniques to enhance the thermal performance of buildings located in various climates [A review]. <i>Energy and Buildings</i> , 2022 , 258, 111840	7	9
183	Development of candle soot dispersed phase change material for improving water generation potential of tubular solar distillation unit. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 241, 111748	6.4	0
182	Optimal positioning of phase change material and insulation through numerical investigations to reduce cooling loads in office buildings. <i>Journal of Energy Storage</i> , 2022 , 52, 104946	7.8	0
181	Energy and Exergy Analysis of Isothermal Compressed Air Energy Storage System 2021 ,		
180	Residential Air Conditioning System Integrated with Packed Bed Cool Storage Unit for Promoting Rooftop Solar PV Power Generation. <i>International Journal of Renewable Energy Development</i> , 2021 , 10, 239-247	1.5	1
179	Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications. <i>Journal of Testing and Evaluation</i> , 2021 , 49, 20190722	1	2
178	Enhancement of heat transfer in a combined solar air heating and water heater system. <i>Energy</i> , 2021 , 221, 119805	7.9	9
177	Review on numerical algorithms for melting and solidification studies and their implementation in general purpose computational fluid dynamic software. <i>Journal of Energy Storage</i> , 2021 , 36, 102341	7.8	2
176	A pathway towards sustainable development of small capacity horizontal axis wind turbines □ Identification of influencing design parameters & their role on performance analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 44, 101019	4.7	3
175	Comparative investigation on heat transfer enhancement of surface-roughened and nano-dispersed phase change material for thermal energy storage. <i>International Journal of Energy Research</i> , 2021 , 45, 15992-16005	4.5	1
174	Thermal Performance Study on a Sensible Cool Thermal Energy Storage System for Building Air-Conditioning Applications. <i>International Journal of Photoenergy</i> , 2021 , 2021, 1-10	2.1	
173	Review on the electrical conductivity of nanofluids: Recent developments. <i>Materials Today: Proceedings</i> , 2021 , 39, 1532-1537	1.4	2
172	Enthalpy based mathematical modelling for thermal energy storage filled with paraffin encapsulated balls as storage material. <i>Materials Today: Proceedings</i> , 2021 , 45, 6006-6010	1.4	1
171	Performance augmentation of solar photovoltaic panel through PCM integrated natural water circulation cooling technique. <i>Renewable Energy</i> , 2021 , 172, 1433-1448	8.1	13
170	Thermal management analysis of PCM integration in building using a novel performance parameter - PCM effectiveness index. <i>Thermal Science</i> , 2021 , 208-208	1.2	0
169	Effect of shot blasting on droplet contact angle of carbon aided phase change nanocomposites. <i>Surface Engineering</i> , 2021 , 37, 1002-1011	2.6	4

168	Experimental investigation on packed bed cool storage system for supply-demand management in building air-conditioning system suitable for micro thermal grid. <i>Thermal Science</i> , 2021 , 25, 95-106	1.2	2
167	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. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 923-946	4.3	3
166	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. <i>Journal of Environmental Management</i> , 2021 , 290, 112668	7.9	16
165	Experimental study on the direct evaporative air-cooling system with vermicompost material as the water storage medium. <i>Sustainable Cities and Society</i> , 2021 , 71, 102991	10.1	3
164	Performance evaluation of phase change material integration in buildings using novel non-dimensional performance parameters for different cities and months in India. <i>Journal of Energy Storage</i> , 2021 , 42, 103015	7.8	3
163	Augmented performance of solar desalination unit by utilization of nano-silicon coated glass cover for promoting drop-wise condensation. <i>Desalination</i> , 2021 , 515, 115191	10.3	12
162	Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater. <i>Desalination</i> , 2020 , 484, 114422	10.3	18
161	Selection of Heat Transfer Fluids for Solar Thermal Applications Using Multi-Criteria Decision-Making Tools. <i>Journal of Testing and Evaluation</i> , 2020 , 48, 20180539	1	5
160	Experimental Investigations of Thin-layer Drying of Leaves in a Heat-Pump Assisted Tray-type Batch Drying Chamber. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2020 , 66, 254-265	1.3	0
159	Experimental Investigation of a Direct Evaporative Cooling System for Year-Round Thermal Management with Solar-Assisted Dryer. <i>International Journal of Photoenergy</i> , 2020 , 2020, 1-24	2.1	1
158	Effect of aspect ratio and dispersed PCM balls on the charging performance of a latent heat thermal storage unit for solar thermal applications. <i>Renewable Energy</i> , 2020 , 148, 876-888	8.1	18
157	Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions. <i>Energy</i> , 2020 , 192, 116695	7.9	13
156	Experimental analysis and comparison of flat plate solar air heater with and without integrated sensible heat storage. <i>Renewable Energy</i> , 2020 , 150, 255-265	8.1	22
155	Numerical studies on the thermal regimes of the horizontal tube falling film evaporation under varying feeder height. <i>International Journal of Green Energy</i> , 2020 , 17, 895-911	3	3
154	CFD studies on different configurations of drying chamber for thin-layer drying of leaves. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 42, 2227-2239	1.6	8
153	Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings. <i>Journal of Building Physics</i> , 2020 , 43, 351-364	2.6	16
152	Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate. <i>Thermal Science and Engineering Progress</i> , 2019 , 14, 100403	3.6	3
151	Experimental study on thermal properties and electrical conductivity of stabilized HO-solar glycol mixture based multi-walled carbon nanotube nanofluids: developing a new correlation. <i>Heliyon</i> , 2019 , 5, e02385	3.6	15

150	Effect of shot peening on enhancing the heat transfer performance of a tubular heat exchanger. <i>International Journal of Thermal Sciences</i> , 2019 , 139, 1-14	4.1	14
149	A 50 year review of basic and applied research in compound parabolic concentrating solar thermal collector for domestic and industrial applications. <i>Solar Energy</i> , 2019 , 187, 293-340	6.8	60
148	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit. <i>Desalination</i> , 2019 , 467, 1-11	10.3	25
147	Thermodynamic analysis on compressed air energy storage augmenting power / polygeneration for roundtrip efficiency enhancement. <i>Energy</i> , 2019 , 180, 107-120	7.9	13
146	Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger. <i>Renewable Energy</i> , 2019 , 140, 580-591	8.1	19
145	Experimental investigation on heat transfer and pressure drop of MWCNT - Solar glycol based nanofluids in shot peened double pipe heat exchanger. <i>Powder Technology</i> , 2019 , 345, 815-824	5.2	35
144	Augmenting the productivity of solar still using multiple PCMs as heat energy storage. <i>Journal of Energy Storage</i> , 2019 , 26, 101019	7.8	59
143	Evaluation of Thermal Properties of Cement-Exfoliated Vermiculite Blocks as Energy Efficient Building Envelope Material. <i>Journal of Testing and Evaluation</i> , 2019 , 47, 20170520	1	2
142	Natural-convection heat transfer enhancement of aluminum heat sink using nanocoating by electron beam method. <i>Thermal Science</i> , 2019 , 23, 3129-3141	1.2	1
141	Numerical Investigation on the Effect of Tube Geometry and Feeder Height on the Heat Transfer Performance of Horizontal Tube Falling Film Evaporation. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	4
140	Thermophysical characterization and comparison of PCMs using DSC and T-History experimental setup. <i>Materials Research Express</i> , 2019 , 6, 125527	1.7	2
139	Comparison of a real-time building with brick and exfoliated vermiculite using OpenStudio modeling for Indian climatic zones. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 2334-2345	1.6	3
138	A review of efficient high productivity solar stills. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 101, 197-220	16.2	74
137	Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept A parametric study. <i>Journal of Energy Storage</i> , 2019 , 21, 48-57	7.8	20
136	Characteristics investigation on thermophysical properties of synthesized activated carbon nanoparticles dispersed in solar glycol. <i>International Journal of Thermal Sciences</i> , 2019 , 136, 15-32	4.1	31
135	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system. <i>Applied Thermal Engineering</i> , 2019 , 148, 1416-1424	5.8	41
134	Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production. <i>Journal of Cleaner Production</i> , 2019 , 210, 388-400	10.3	65
133	Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel through simulations of velocity contours. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019 , 41, 2233-2245	1.6	2

132	Experimental studies on solidification and subcooling characteristics of water-based phase change material (PCM) in a spherical encapsulation for cool thermal energy storage applications. <i>International Journal of Refrigeration</i> , 2019 , 100, 454-462	3.8	24
131	Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review. <i>Journal of Cleaner Production</i> , 2019 , 207, 826-845	10.3	49
130	Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate. <i>Renewable Energy</i> , 2018 , 127, 213-229	8.1	53
129	Transient analysis of steam accumulator integrated with solar based MED-TVC system. <i>Desalination</i> , 2018 , 435, 3-22	10.3	11
128	Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 536-556	16.2	82
127	Combustion, performance and emission characteristics of an unmodified diesel engine fueled with Manilkara Zapota Methyl Ester and its diesel blends. <i>Applied Thermal Engineering</i> , 2018 , 139, 196-202	5.8	20
126	Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings. <i>Advances in Building Energy Research</i> , 2018 , 12, 139-149	1.8	14
125	Investigation on Phase Change Behavior of Paraffin Phase Change Material in a Spherical Capsule for Solar Thermal Storage Units. <i>Heat Transfer Engineering</i> , 2018 , 39, 775-783	1.7	21
124	Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting. <i>Phase Transitions</i> , 2018 , 91, 254-270	1.3	18
123	Harnessing Free Energy From Nature For Efficient Operation of Compressed Air Energy Storage System and Unlocking the Potential of Renewable Power Generation. <i>Scientific Reports</i> , 2018 , 8, 9981	4.9	9
122	Experimental and numerical investigation of solar flat plate cooking unit for domestic applications. <i>Energy</i> , 2018 , 157, 436-447	7.9	17
121	A REVIEW OF THE ROLE OF PASSIVE TECHNIQUES ON HEAT TRANSFER ENHANCEMENT OF HORIZONTAL TUBE FALLING FILM AND FLOODED EVAPORATORS. <i>Journal of Enhanced Heat Transfer</i> , 2018 , 25, 239-282	1.7	7
120	Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit. <i>Energy</i> , 2018 , 144, 443-455	7.9	31
119	Thermal and electrical conductivity enhancement of solar glycol-water mixture containing MWCNTs. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2018 , 26, 871-879	1.8	19
118	Experimental investigation on small capacity compressed air energy storage towards efficient utilization of renewable sources. <i>Journal of Energy Storage</i> , 2018 , 20, 364-370	7.8	16
117	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation. <i>Journal of Cleaner Production</i> , 2018 , 195, 1149-1161	10.3	58
116	GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities – a case of the Port of Chennai. <i>Carbon Management</i> , 2017 , 8, 45-56	3.3	16
115	Stability, viscosity, thermal conductivity, and electrical conductivity enhancement of multi-walled carbon nanotube nanofluid using gum arabic. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017 , 25, 230-240	1.8	38

114	Passive cooling potential in buildings under various climatic conditions in India. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 78, 1236-1252	16.2	49
113	Sustainability and Environmental Management: Emissions Accounting for Ports. <i>Strategic Planning for Energy and the Environment</i> , 2017 , 37, 8-26	2.2	1
112	Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 77, 1363-1374	16.2	78
111	Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system. <i>Solar Energy</i> , 2017 , 158, 837-844	6.8	13
110	Performance analysis of a small capacity compressed air energy storage system for renewable energy generation using TRNSYS. <i>Journal of Renewable and Sustainable Energy</i> , 2017 , 9, 044106	2.5	5
109	Renewable Energy Based Smart Microgrids A Pathway To Green Port Development. <i>Strategic Planning for Energy and the Environment</i> , 2017 , 37, 17-32	2.2	20
108	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. <i>Energy and Buildings</i> , 2017 , 152, 250-263	7	20
107	Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings. <i>Advances in Building Energy Research</i> , 2017 , 11, 282-304	1.8	7
106	Fanning friction (f) and colburn (j) factors of a louvered fin and flat tube compact heat exchanger. <i>Thermal Science</i> , 2017 , 21, 141-150	1.2	5
105	Experimental study on density, thermal conductivity, specific heat, and viscosity of water-ethylene glycol mixture dispersed with carbon nanotubes. <i>Thermal Science</i> , 2017 , 21, 255-265	1.2	22
104	Melting/solidification characteristics of paraffin based nanocomposite for thermal energy storage applications. <i>Thermal Science</i> , 2017 , 21, 2517-2524	1.2	9
103	Role of biodiesel with nanoadditives in port owned trucks and other vehicles for emission reduction. <i>Thermal Science</i> , 2017 , 21, 605-614	1.2	1
102	Zigbee Based Energy Efficient LED Lighting System. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017 , 14, 435-440	0.3	0
101	Experimental investigation on thermophysical properties of solar glycol dispersed with multi-walled carbon nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016 , 24, 641-652	1.8	25
100	Effects of raw material composition of tung (Vernicia Montana) and jatropha (Jatropha Curcas L) oil methyl esters on their fuel properties: a comparative study in fuel quality perspectives. <i>International Journal of Oil, Gas and Coal Technology</i> , 2016 , 12, 210	0.6	
99	Sensible heat storage for solar heating and cooling systems 2016 , 399-428		5
98	Role of PCM addition on stratification behaviour in a thermal storage tank [An experimental study. <i>Energy</i> , 2016 , 115, 1168-1178	7.9	34
97	Experimental energy and exergy analysis of a flat plate solar air heater with a new design of integrated sensible heat storage. <i>Energy</i> , 2016 , 111, 609-619	7.9	43

96	Productivity enhancements of compound parabolic concentrator tubular solar stills. <i>Renewable Energy</i> , 2016 , 88, 391-400	8.1	116
95	Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system. <i>Journal of Energy Storage</i> , 2016 , 6, 70-79	7.8	29
94	Solidification characteristics of water based graphene nanofluid PCM in a spherical capsule for cool thermal energy storage applications. <i>International Journal of Refrigeration</i> , 2016 , 66, 73-83	3.8	48
93	Effect of parabolic solar energy collectors for water distillation. <i>Desalination and Water Treatment</i> , 2016 , 57, 21234-21242		19
92	Effect of heat removal on tubular solar desalting system. <i>Desalination</i> , 2016 , 379, 24-33	10.3	65
91	A review on compressed air energy storage □ A pathway for smart grid and polygeneration. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 62, 895-907	16.2	183
90	Experimental investigation on the phase change material-based modular heat exchanger for thermal management of a building. <i>International Journal of Green Energy</i> , 2016 , 13, 1109-1119	3	8
89	Influence of crescent shaped absorber in water desalting system. <i>Desalination</i> , 2016 , 398, 208-213	10.3	29
88	Experimental Investigation of a Cascaded Latent Heat Storage System for Diesel Engine Waste Heat Recovery. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2015 , 37, 1308-1317	11.6	21
87	Hydrodynamics of a Liquid-Solid Circulating Fluidized Bed: Effect of Solid Feed Pipe Diameter. <i>Indian Chemical Engineer</i> , 2015 , 57, 67-81	1	2
86	Experimental Investigations on the Improvement of an Air Conditioning System with a Nanofluid-Based Intercooler. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 1681-1693		11
85	Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends □ A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 49, 563-573	16.2	122
84	Influence of alumina nanoparticles, ethanol and isopropanol blend as additive with diesel □ Soybean biodiesel blend fuel: Combustion, engine performance and emissions. <i>Renewable Energy</i> , 2015 , 80, 655-663	8.1	210
83	Experimental and parametric studies of a louvered fin and flat tube compact heat exchanger using computational fluid dynamics. <i>AEJ - Alexandria Engineering Journal</i> , 2015 , 54, 905-915	6.1	20
82	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. <i>Energy</i> , 2015 , 90, 807-813	7.9	31
81	Review on phase change material based free cooling of buildings □ The way toward sustainability. <i>Journal of Energy Storage</i> , 2015 , 4, 74-88	7.8	57
80	Experimental study on a parabolic concentrator assisted solar desalting system. <i>Energy Conversion and Management</i> , 2015 , 105, 665-674	10.6	60
79	Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule □ An experimental study. <i>Energy</i> , 2015 , 90, 508-515	7.9	23

78	Numerical Investigations of Outward Solidification in Cylindrical PCM Storage Unit. <i>Applied Mechanics and Materials</i> , 2015 , 787, 177-181	0.3	2
77	Effects of the properties and the structural configurations of fatty acid methyl esters on the properties of biodiesel fuel: a review. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2015 , 229, 357-390	1.4	34
76	CFD analysis of flow and geometric parameter for a double walled solar cooking unit. <i>Applied Mathematical Modelling</i> , 2015 , 39, 137-146	4.5	15
75	Optimization of biodiesel production from Manilkara zapota (L.) seed oil using Taguchi method. <i>Fuel</i> , 2015 , 140, 90-96	7.1	128
74	Experimental and numerical investigation of a louvered fin and elliptical tube compact heat exchanger. <i>Thermal Science</i> , 2015 , 19, 679-692	1.2	6
73	Wake prediction of horizontal-axis wind turbine using full-rotor modeling. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014 , 124, 7-19	3.7	47
72	Parametric studies on packed bed storage unit filled with PCM encapsulated spherical containers for low temperature solar air heating applications. <i>Energy Conversion and Management</i> , 2014 , 78, 74-80	10.6	80
71	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. <i>Energy</i> , 2014 , 72, 636-642	7.9	88
70	Solidification behavior of water based nanofluid phase change material with a nucleating agent for cool thermal storage system. <i>International Journal of Refrigeration</i> , 2014 , 41, 157-163	3.8	47
69	Experimental investigation of the LHS system and comparison of the stratification performance with the SHS system using CFD simulation. <i>Solar Energy</i> , 2014 , 103, 378-389	6.8	25
68	Hydrodynamic similarity in liquid-solid circulating fluidized bed risers. <i>Powder Technology</i> , 2014 , 264, 166-176	5.2	7
67	Free Cooling Potential and Technology Options for Thermal Energy Management of a Commercial Building in Bangalore City, India. <i>Energy Engineering: Journal of the Association of Energy Engineers</i> , 2014 , 111, 11-24	0.6	8
66	Experimental and numerical studies on the wake behavior of a horizontal axis wind turbine. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2014 , 128, 54-65	3.7	29
65	Convective heat transfer characteristics of CNT nanofluids in a tubular heat exchanger of various lengths for energy efficient cooling/heating system. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 60, 413-421	4.9	53
64	Role of PCM based nanofluids for energy efficient cool thermal storage system. <i>International Journal of Refrigeration</i> , 2013 , 36, 1641-1647	3.8	99
63	Analysis of the heat transfer mechanisms during energy storage in a Phase Change Material filled vertical finned cylindrical unit for free cooling application. <i>Energy Conversion and Management</i> , 2013 , 75, 466-473	10.6	38
62	Sub cooling of PCM due to various effects during solidification in a vertical concentric tube thermal storage unit. <i>Applied Thermal Engineering</i> , 2013 , 52, 505-511	5.8	31
61	Experimental investigation on phase change material based thermal storage system for solar air heating applications. <i>Solar Energy</i> , 2013 , 88, 144-153	6.8	111

60	Novel Concept of PCM Based Thermal Storage Integration in Active and Passive Cooling Systems for Energy Management in Buildings. <i>Energy Engineering: Journal of the Association of Energy Engineers</i> , 2013 , 110, 41-66	0.6	6
59	Effect of Double Bond Equivalent of Biodiesels on their Heating Value and Cetane Number. <i>Asian Journal of Chemistry</i> , 2013 , 25, 8732-8736	0.4	2
58	Performance studies of a solar parabolic trough collector with a thermal energy storage system. <i>Energy</i> , 2012 , 47, 395-402	7.9	96
57	Convective heat transfer characteristics of secondary refrigerant based CNT nanofluids in a tubular heat exchanger. <i>International Journal of Refrigeration</i> , 2012 , 35, 2287-2296	3.8	57
56	Experimental investigation of the thermo-physical properties of water-ethylene glycol mixture based CNT nanofluids. <i>Thermochimica Acta</i> , 2012 , 545, 180-186	2.9	175
55	Numerical investigation of packed bed storage unit filled with PCM encapsulated spherical containers A comparison between various mathematical models. <i>International Journal of Thermal Sciences</i> , 2012 , 60, 153-160	4.1	56
54	Air Heating with Latent Heat Storage For Thermal Energy Management Of Solar Applications. <i>Distributed Generation and Alternative Energy Journal</i> , 2012 , 27, 20-35	0.3	2
53	Phase Change Material-Based Nanofluids for Heat Transfer Enhancement in Latent Heat Thermal Energy Storage System. <i>International Journal of Green Nanotechnology</i> , 2012 , 4, 541-546		13
52	The effect of carbon nanotubes in enhancing the thermal transport properties of PCM during solidification. <i>Heat and Mass Transfer</i> , 2012 , 48, 1345-1355	2.2	116
51	Heat transfer enhancement using nanofluids: An overview. <i>Thermal Science</i> , 2012 , 16, 423-444	1.2	24
50	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. <i>International Journal of Exergy</i> , 2012 , 11, 349	1.2	4
49	Role of PCM Based Nanofluids for Energy Efficient Thermal Storage in Electronic Cooling System 2012 ,		1
48	Evaluation of renewable energy options for cooling applications. <i>International Journal of Energy Sector Management</i> , 2012 , 6, 65-74	2.5	5
47	Parametric Study of Solar Parabolic Trough Collector System. <i>Asian Journal of Applied Sciences</i> , 2012 , 5, 384-393	0.4	16
46	CFD simulation studies and experimental validation on a parallel plate heat sink. <i>International Journal of Computer Aided Engineering and Technology</i> , 2011 , 3, 526	0.5	2
45	Second law analysis of a diesel engine waste heat recovery with a combined sensible and latent heat storage system. <i>Energy Policy</i> , 2011 , 39, 6011-6020	7.2	35
44	Transient thermal management comparison of a microprocessor using PCMs in various configurations. <i>Journal of Thermal Science</i> , 2011 , 20, 516-520	1.9	1
43	Heat transfer and pressure drop studies on a PCM-heat exchanger module for free cooling applications. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 1573-1582	4.1	73

42	Experimental investigation on heat recovery from diesel engine exhaust using finned shell and tube heat exchanger and thermal storage system. <i>Applied Energy</i> , 2011 , 88, 77-87	10.7	200
41	Study of slip velocity and application of drift-flux model to slip velocity in a liquid-solid circulating fluidized bed. <i>Advanced Powder Technology</i> , 2011 , 22, 77-85	4.6	12
40	Mitigation of NOx emissions from a jatropha biodiesel fuelled DI diesel engine using antioxidant additives. <i>Fuel</i> , 2011 , 90, 2721-2725	7.1	172
39	Review of solar cooling methods and thermal storage options. <i>Renewable and Sustainable Energy Reviews</i> , 2011 , 15, 3220-3228	16.2	165
38	Experimental Investigation on a Latent Heat Thermal Storage Unit for Solar Cooling Application. <i>Green</i> , 2011 , 1,		1
37	Experimental investigation and CFD analysis of a air cooled condenser heat pipe. <i>Thermal Science</i> , 2011 , 15, 759-772	1.2	25
36	Thermal Analysis of D-mannitol for Use as Phase Change Material for Latent Heat Storage. <i>Journal of Applied Sciences</i> , 2011 , 11, 3044-3048	0.3	58
35	Experimental investigation on air cooler with thermal storage 2010 ,		2
34	Modeling and simulation of a parallel plate heat sink using computational fluid dynamics. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 51, 415-419	3.2	10
33	Solar cookers with and without thermal storageA review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 691-701	16.2	126
32	Studies on pumping power in terms of pressure drop and heat transfer characteristics of compact plate-fin heat exchangersA review. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 478-485	16.2	59
31	Review on free cooling of buildings using phase change materials. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 2819-2829	16.2	166
30	An experimental investigation on passive cooling system comprising phase change material and two-phase closed thermosyphon for telecom shelters in tropical and desert regions. <i>Energy and Buildings</i> , 2010 , 42, 1726-1735	7	28
29	Studies on Regime Transition, Operating Range and System Stability in a Liquid-Solid Circulating Fluidized Bed. <i>Chemical Engineering and Technology</i> , 2009 , 32, 572-579	2	14
28	Studies on Fanning Friction (f) and Colburn (j) Factors of Offset and Wavy Fins Compact Plate Fin Heat ExchangerA CFD Approach. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009 , 56, 987-1005	2.3	34
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