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S. No	Title	Authors	Name of the Journal	Year (YY/MM/DD)
1	Influence of alumina nanoparticles, ethanol and isopropanol blend as additive with diesel–soybean biodiesel blend fuel: Combustion, engine performance and emissions	T Shaafi, R Velraj	Renewable Energy	2015/8/1
2	A review on compressed air energy storage – A pathway for smart grid and polygeneration	Jihong Wang, Gayathri Venkataramani, Prasanna Parankusam, Velraj Ramalingam	Renewable and Sustainable Energy Reviews	2016
3	Optimization of biodiesel production from Manilkara zapota (L.) seed oil using Taguchi method	R Sathish Kumar, K Sureshkumar, R Velraj	Fuel	2015/1/15
4	Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends—a review	T Shaafi, K Sairam, A Gopinath, G Kumaresan, R Velraj	Renewable and Sustainable Energy Reviews	2015/9/1
5	Productivity enhancements of compound parabolic concentrator tubular solar stills	T Arunkumar, Ramalingam Velraj, David C Denkenberger, Ravishankar Sathyamurthy, K Vinoth Kumar, Amimul Ahsan	Renewable energy	2016/4/1
6	Effect of heat removal on tubular solar desalting system	T Arunkumar, R Velraj, David Denkenberger, Ravishankar Sathyamurthy, K Vinothkumar, K Porkumaran, Amimul Ahsan	Desalination	2016/2/1



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7	Experimental study on a parabolic concentrator assisted solar desalting system	T Arunkumar, David Denkenberger, R Velraj, Ravishankar Sathyamurthy, Hiroshi Tanaka, K Vinothkumar	Energy Conversion and Management	2015/11/15
8	Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors	G Kumaresan, P Sudhakar, R Santosh, R Velraj	Renewable and Sustainable Energy Reviews	2017/9/1
9	Review on phase change material based free cooling of buildings—The way toward sustainability	Muthuvelan Thambidurai, Karthik Panchabikesan, Krishna Mohan N, Velraj Ramalingam	Journal of Energy Storage	2015
10	Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models	AK Babu, G Kumaresan, V Antony Aroul Raj, R Velraj	Renewable and Sustainable Energy Reviews	2018/7/1
11	Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production	K Latha, R Velraj, P Shanmugam, S Sivanesan	Journal of cleaner production	2019/2/10
12	Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation	T Arunkumar, AE Kabeel, Kaiwalya Raj, David Denkenberger, Ravishankar Sathyamurthy, P Ragupathy, R Velraj	Journal of Cleaner Production	2018/9/10
13	Passive cooling potential in buildings under various climatic conditions in India	Karthik Panchabikesan, Kumaresan Vellaisamy, Velraj Ramalingam	Renewable and Sustainable Energy Reviews	2017/10/1



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14	Experimental energy and exergy analysis of a flat plate solar air heater with a new design of integrated sensible heat storage	G Kalaiarasi, R Velraj, Muthusamy V Swami	Energy	2016/9/15
15	A review of efficient high productivity solar stills	T Arunkumar, Kaiwalya Raj, D Dsilva Winfred Rufuss, David Denkenberger, Guo Tingting, Li Xuan, R Velraj	Renewable and Sustainable Energy Reviews	2019/3/1
16	Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system	G Kumaresan, VS Vigneswaran, S Esakkimuthu, R Velraj	Journal of Energy Storage	2016/5/1
17	Experimental and parametric studies of a louvered fin and flat tube compact heat exchanger using computational fluid dynamics	P Karthik, V Kumaresan, R Velraj	Alexandria Engineering Journal	2015/12/1
18	Influence of crescent shaped absorber in water desalting system	T Arunkumar, R Velraj, DC Denkenberger, Ravishankar Sathyamurthy	Desalination	2016/11/15
19	Technological advancements in solar energy driven humidification-dehumidification desalination systems-A review	R Santosh, T Arunkumar, R Velraj, G Kumaresan	Journal of Cleaner Production	2019/1/10
20	Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate	Ganesh Kumar Poongavanam, Karthik Panchabikesan, Anto Joseph Deeyoko Leo, Velraj Ramalingam	Renewable Energy	2018/11/1
21	Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit	Karthik Panchabikesan, Antony Aroul Raj Vincent, Yulong	Energy	2018/2/1



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		Ding, Velraj Ramalingam		
22	Stability, viscosity, thermal conductivity, and electrical conductivity enhancement of multi-walled carbon nanotube nanofluid using gum arabic	P Ganesh Kumar, V Kumaresan, R Velraj	Fullerenes, Nanotubes and Carbon Nanostructures	2017/4/3
23	Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings	Thambidurai Muthuvelan, Karthik Panchabikesan, Rajagopal Munisamy, Krishna Mohan Nibhanupudi, Velraj Ramalingam	Advances in Building Energy Research	2018/7/3
24	Solidification characteristics of water based graphene nanofluid PCM in a spherical capsule for cool thermal energy storage applications	A Sathishkumar, V Kumaresan, R Velraj	International Journal of Refrigeration	2016/6/1
25	Role of PCM addition on stratification behaviour in a thermal storage tank—An experimental study	G Senthil Kumar, D Nagarajan, LA Chidambaram, V Kumaresan, Y Ding, R Velraj	Energy	2016/11/15
26	Effect of parabolic solar energy collectors for water distillation	T Arunkumar, R Velraj, Amimul Ahsan, AJN Khalifa, S Shams, D Denkenberger, Ravishankar Sathyamurthy	Desalination and Water Treatment	2016/9/25
27	Characteristics investigation on thermophysical properties of synthesized activated carbon nanoparticles dispersed in solar glycol	Ganesh Kumar Poongavanam, Velraj Ramalingam	International Journal of Thermal Sciences	2019/2/1
28	Influence of the size of spherical capsule on solidification characteristics of DI (deionized	P Chandrasekaran, M Cheralathan, R Velraj	Energy	2015/10/1



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	water) water for a cool thermal energy storage system–An experimental study			
29	A 50 year review of basic and applied research in compound parabolic concentrating solar thermal collector for domestic and industrial applications	V Pranesh, R Velraj, S Christopher, V Kumaresan	Solar Energy	2019/7/15
30	Experimental study on density, thermal conductivity, specific heat, and viscosity of water-ethylene glycol mixture dispersed with carbon nanotubes	Jayabalan Ganeshkumar, Durai Kathirkaman, Kandhaswamy Raja, Vellisamy Kumaresan, Ramalingam Velraj	Thermal Science	2017
31	Effects of the properties and the structural configurations of fatty acid methyl esters on the properties of biodiesel fuel: a review	A Gopinath, K Sairam, R Velraj, G Kumaresan	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering	2015/2
32	Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule–An experimental study	P Chandrasekaran, M Cheralathan, R Velraj	Energy	2015/10/1
33	Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system	T Arunkumar, D Murugesan, Kaiwalya Raj, David Denkenberger, C Viswanathan, D Dsilva Winfred Rufuss, RJATE Velraj	Applied Thermal Engineering	2019/2/5
34	Influence of PCM thermal conductivity and HTF velocity during solidification of PCM	Karthik Panchabikesan, Muthusamy V Swami, Velraj	Journal of Energy Storage	2019/2/1



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	through the free cooling concept–A parametric study	Ramalingam, Fariborz Haghighat		
35	Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting	P Murugan, P Ganesh Kumar, V Kumaresan, M Meikandan, K Malar Mohan, R Velraj	PhaTr	2018/3
36	Experimental investigation on thermophysical properties of solar glycol dispersed with multi-walled carbon nanotubes	P Ganesh Kumar, V Kumaresan, R Velraj	Fullerenes, Nanotubes and Carbon Nanostructures	2016/10/2
37	Experimental investigation of a cascaded latent heat storage system for diesel engine waste heat recovery	M Chinnapandian, V Pandiyarajan, A Prabhu, R Velraj	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2015/6/18
38	Experimental and numerical investigation of a louvered fin and elliptical tube compact heat exchanger	Karthik Pooranachandran, Khan Sheik Ismail Liagat Ali, Kulasekharan Narasingamurthi, Velraj Ramalingam	Thermal Science	2015
39	Augmenting the productivity of solar still using multiple PCMs as heat energy storage	VS Vigneswaran, G Kumaresan, BV Dinakar, K Karthick Kamal, R Velraj	Journal of Energy Storage	2019/12/1
40	Melting/solidification characteristics of paraffin based nanocomposite for thermal energy storage applications	Selvam Lokesh, Pachappan Murugan, Anbalagan Sathishkumar, Vellaisamy Kumaresan, Ramalingam Velraj	Thermal Science	2017



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41	Experimental investigation on heat transfer and pressure drop of MWCNT-Solar glycol based nanofluids in shot peened double pipe heat exchanger	Ganesh Kumar Poongavanam, Karthik Panchabikesan, Renuka Murugesan, Sakthivadivel Duraisamy, Velraj Ramalingam	Powder Technology	2019/3/1
42	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 ...	Karthik Panchabikesan, Sujatha Abaranji, Pandiyarajan Vellaichamy, Velraj Ramalingam	Energy and Buildings	2017/10/1
43	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit	R Santosh, G Kumaresan, S Selvaraj, T Arunkumar, R Velraj	Desalination	2019/10/1
44	Effect of shot peening on enhancing the heat transfer performance of a tubular heat exchanger	GK Poongavanam, V Ramalingam	International Journal of Thermal Sciences	2019/5/1
45	Heat carrier nanofluids in solar still—A review	T Arunkumar, Kaiwalya Raj, D Denkenberger, R Velraj	Desalination and water treatment	2018/10/1



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46	Combustion, performance and emission characteristics of an unmodified diesel engine fueled with Manilkara Zapota Methyl Ester and its diesel blends	R Sathish Kumar, K Sureshkumar, R Velraj	Applied Thermal Engineering	2018/7/5
47	Investigation on phase change behavior of paraffin phase change material in a spherical capsule for solar thermal storage units	Kandasamy Hariharan, Gowri Sankar Senthil Kumar, Govindaraj Kumaresan, Ramalingam Velraj	Heat Transfer Engineering	2018/5/28
48	Renewable energy based smart microgrids—A pathway to green port development	Atulya Misra, Gayathri Venkataramani, Senthilkumar Gowrishankar, Elayaperumal Ayyasam, Velraj Ramalingam	Strategic Planning for Energy and the Environment	2017/9/1
49	Experimental investigation on small capacity compressed air energy storage towards efficient utilization of renewable sources	Gayathri Venkataramani, E Ramakrishnan, Mangat Ram Sharma, A Hari Bhaskaran, Prabir Kumar Dash, Velraj Ramalingam, Jihong Wang	Journal of Energy Storage	2018/12/1
50	Experimental investigations on the improvement of an air conditioning system with a nanofluid-based intercooler	N Balaji, P Suresh Mohan Kumar, R Velraj, N Kulasekharan	Arabian Journal for Science and Engineering	2015/6/1
51	Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger	Ganesh Kumar Poongavanam, Balaji Kumar, Sakthivadivel Duraisamy, Karthik	Renewable Energy	2019/9/1



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		Panchabikesan, Velraj Ramalingam		
52	Thermal and electrical conductivity enhancement of solar glycol-water mixture containing MWCNTs	Ganesh Kumar Poongavanam, Renuka Murugesan, Velraj Ramalingam	Fullerenes, Nanotubes and Carbon Nanostructures	2018/12/2
53	Experimental and numerical investigation of solar flat plate cooking unit for domestic applications	G Kumaresan, R Santosh, G Raju, R Velraj	Energy	2018/8/15
54	A review of the role of passive techniques on heat transfer enhancement of horizontal tube falling film and flooded evaporators	Dilli Balaji, Ramalingam Velraj, MV Ramana Murthy	Journal of Enhanced Heat Transfer	2018
55	Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system	P Sudhakar, G Kumaresan, R Velraj	Solar Energy	2017/12/1
56	Harnessing free energy from nature for efficient operation of compressed air energy storage system and unlocking the potential of renewable power generation	Gayathri Venkataramani, Velraj Ramalingam, Kishore Viswanathan	Scientific reports	2018/7/2
57	CFD analysis of flow and geometric parameter for a double walled solar cooking unit	G Kumaresan, G Raju, S Inian, R Velraj	Applied Mathematical Modelling	2015/1/1
58	Experimental studies on solidification and subcooling characteristics of water-based phase change material (PCM) in	M Ponrajan Vikram, V Kumaresan, S Christopher, R Velraj	International Journal of Refrigeration	2019/4/1



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	a spherical encapsulation for cool thermal energy storage ...			
59	Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings	M Rajagopal, R Dinesh Babu, V Antony Aroul Raj, R Velraj	Advances in Building Energy Research	2017/7/3
60	Experimental investigation on the phase change material-based modular heat exchanger for thermal management of a building	M Rajagopal, R Velraj	International Journal of Green Energy	2016/9/1
61	Effect of aspect ratio and dispersed PCM balls on the charging performance of a latent heat thermal storage unit for solar thermal applications	Mahboob E Afshan, AS Selvakumar, R Velraj, R Rajaraman	Renewable Energy	2020/4/1
62	Thermodynamic analysis on compressed air energy storage augmenting power/polygeneration for roundtrip efficiency enhancement	Gayathri Venkataramani, Pranesh Vijayamithran, Yongliang Li, Yulong Ding, Haisheng Chen, Velraj Ramalingam	Energy	2019/8/1
63	Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach	T Arunkumar, R Velraj, G Otero Prado, DC Denkenberger, Omid Mahian, R Sathyamurthy, K Vinothkumar, A Ahsan	Desalination and Water Treatment	2017/7/12
64	Transient analysis of steam accumulator integrated with solar based MED-TVC system	V Samson Packiaraj Raphael,	Desalination	2018/6/1



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		R Velraj, Purnima Jalihal		
65	Performance analysis of a small capacity compressed air energy storage system for renewable energy generation using TRNSYS	Gayathri Venkataramani, Velraj Ramalingam	Journal of Renewable and Sustainable Energy	2017/7/23
66	GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities—a case of the Port of Chennai	Atulya Misra, Karthik Panchabikesan, Senthil Kumar Gowrishankar, Elayaperumal Ayyasamy, Velraj Ramalingam	Carbon Management	2017/1/2
67	Development of superhydrophobic surface through facile dip coating method	M Meikandan, K Malarmohan, R Velraj	Digest Journal of Nanomaterials and Biostructures	2016/7/1
68	The contribution of dry indoor built environment on the spread of Coronavirus: Data from various Indian states	R Velraj, Fariborz Haghighat	Sustainable Cities and Society	2020/11/1
69	Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions	Karthik Panchabikesan, Mahmood Mastani Joybari, Fariborz Haghighat, Velraj Ramalingam, Yulong Ding	Energy	2020/2/1
70	Effect of fin orientations in a spherically encapsulated phase	Kumaresan Govindaraj, Karthik	Chemical Engineering Transactions	2017/12/1



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	change materials for effective heat transfer enhancement	Panchabikesan, David C Denkenberger, Velraj Ramalingam		
71	Fuzzy logic controller based bridgeless isolated interleaved zeta converter for LED lamp driver application	R Thenmozhi, C Sharmeela, P Natarajan, R Velraj	International Journal of Power Electronics and Drive Systems	2016/6/1
72	Free cooling feasibility of a typical commercial building in Pune city, India	M. Thambidurai, N. Krishnamohan, M. Rajagopal, R. Velraj	INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH	2015
73	Experimental analysis and comparison of flat plate solar air heater with and without integrated sensible heat storage	G Kalaiarasi, R Velraj, MN Vanjeswaran, N Ganesh Pandian	Renewable Energy	2020/5/1
74	Experimental study on thermal properties and electrical conductivity of stabilized H ₂ O-solar glycol mixture based multi-walled carbon nanotube nanofluids: developing a new ...	P Ganesh Kumar, D Sakthivadivel, M Meikandan, VS Vigneswaran, R Velraj	Heliyon	2019/8/1
75	Sustainability and environmental management: Emissions accounting for ports	Atulya Misra, Karthik Panchabikesan, Elayaperumal Ayyasamy, Velraj Ramalingam	Strategic Planning for Energy and the Environment	2017/6/1



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76	Fanning friction (f) and colburn (j) factors of a louvered fin and flat tube compact heat exchanger	Pooranachandran Karthik, Vellaisamy Kumaresan, Ramalingam Velraj	Thermal Science	2017
77	Sensible heat storage for solar heating and cooling systems	R Velraj	Advances in Solar Heating and Cooling	2016/1/1
78	Hydrodynamics of a Liquid–Solid Circulating Fluidized Bed: Effect of Solid Feed Pipe Diameter	P Natarajan, R Velraj, RV Seeniraj	Indian Chemical Engineer	2015/1/2
79	Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings	S Kumar, S Arun Prakash, V Pandiyarajan, NB Geetha, V Antony Aroul Raj, R Velraj	Journal of Building Physics	2020/1
80	Performance evaluation of compressed air energy storage using TRNSYS	R Velraj, V Gayathri, A Thenmozhi	Journal of Electronic Science and Technology	2015/12/25
81	CFD studies on different configurations of drying chamber for thin-layer drying of leaves	AK Babu, G Kumaresan, V Antony Aroul Raj, R Velraj	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2020/9/16
82	Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate	P Ganesh Kumar, K Balaji, D Sakthivadivel, VS Vigneswaran, M Meikandan, R Velraj	Thermal Science and Engineering Progress	2019/12/1



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83	Interfacial Heat Transfer Coefficient Estimation During Solidification of Rectangular Aluminum Alloy Casting Using Two Different Inverse Methods	R Rajaraman, L Anna Gowsalya, R Velraj	Frontiers in Heat and Mass Transfer (FHMT)	2018/4/21
84	Role of biodiesel with nanoadditives in port owned trucks and other vehicles for emission reduction	Atulya Misra, Shaafi Tajudeen, Gayathri Venkataramani, Elayaperumal Ayyasamy, Velraj Ramalingam	Thermal Science	2017
85	Environmental emissions and efficiency of a direct injection diesel engine fueled with various fatty acid methyl esters	Krishnamurthy Sairam, Anantharaman Gopinath, Ramalingam Velraj	Environment Protection Engineering	2015
86	Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater	R Santosh, G Kumaresan, G Krishna Kumar, R Velraj	Desalination	2020/6/15
87	Thermophysical characterization and comparison of PCMs using DSC and T-History experimental setup	Lovelyn Theresa, R Velraj	Materials Research Express	2019/12/11
88	Sustainable cooling technologies for building sector	M Kesavan, La Chidambaram, R Velraj	AIP Conference Proceedings	2019/10/2
89	Comparison of a real-time building with brick and exfoliated vermiculite using OpenStudio modeling for Indian climatic zones	Lovelyn Theresa Innocent, Velraj Ramalingam	Energy Sources, Part A: Recovery, Utilization, and	2019/10/2



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			Environmental Effects	
90	Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel through simulations of velocity contours	Latha Shanmugam, Velraj Ramalingam, Shanmugam Palaniyandi, Sivanesan Subramanian	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019/9/17
91	Heat transfer studies on solar still assisted with and without latent heat storage material	VS Vigneswaran, G Kumaresan, S Elansezhian, R Velraj	DESALINATION AND WATER TREATMENT	2019/2/1
92	Estimation and validation of interfacial heat transfer coefficient during solidification of spherical shaped aluminum alloy (AL 6061) casting using inverse control volume technique	L Gowsalya, R Velraj, R Rajaraman, PD Jeyakumar	Frontiers in Heat and Mass Transfer (FHMT)	2018/12/5
93	Evaluation of thermal properties of cement-exfoliated vermiculite blocks as energy efficient building envelope material	Lovelyn Theresa Innocent, Velraj Ramalingam	Journal of Testing and Evaluation	2018/9/24
94	Sustainable Energy Resources based Smart Microgrid towards Green Port Development-A Pathway for Ecofriendly Society	Atulya Misra, Gayathri Venkataramani, Karthik Panchabikesan, Elayaperumal Ayyasamy, Velraj Ramalingam	Asian Journal of Research in Social Sciences and Humanities	2017
95	Zigbee Based Energy Efficient LED Lighting System	R Thenmozhi, C Sharmeela, P Natarajan, R Velraj	Journal of Computational and	2017/1/1



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			Theoretical Nanoscience	
96	EXPERIMENTAL INVESTIGATION OF THE THERMAL PERFORMANCE OF A HEAT PIPE UNDER VARIOUS MODES OF CONDENSER COOLING	A Arulselvan, V Pandiyarajan, Ramalingam Velraj	Heat Transfer Research	2017
97	Numerical Investigations of Outward Solidification in Cylindrical PCM Storage Unit	V Antony Aroul Raj, C Hariharan, R Velraj, RV Seeniraj	Applied Mechanics and Materials	2015