



## VELRAJ R

Professor, Institute for Energy Studies,  
Anna University, Chennai  
, India

Thermal Storage  
Building  
Nanofluids  
PCM  
Solar

	All	Since 2016
Citations	8986	6087
h-index	48	42
i10-index	127	115

TITLE	CITED BY	YEAR
<a href="#">Experimental Investigation of a Direct Evaporative Cooling System for Year-Round Thermal Management with Solar-Assisted Dryer</a> S Abaranji, K Panchabikesan, V Ramalingam International Journal of Photoenergy 2020		2020
<a href="#">Performance augmentation of solar photovoltaic panel through PCM integrated natural water circulation cooling technique</a> P Sudhakar, R Santosh, B Asthalakshmi, G Kumaresan, R Velraj Renewable Energy		2020
<a href="#">Sustainability and Environmental Management for Ports</a> V Ramalingam International Solutions to Sustainable Energy, Policies and Applications ...		2020
<a href="#">Renewable Energy Based Smart Microgrids—A Pathway to Green Port Development</a> V Ramalingam International Solutions to Sustainable Energy, Policies and Applications ...		2020
<a href="#">Numerical studies on the thermal regimes of the horizontal tube falling film evaporation under varying feeder height</a> D Balaji, R Velraj, MV Ramana Murthy International Journal of Green Energy 17 (14), 895-911		2020
<a href="#">The contribution of dry indoor built environment on the spread of Coronavirus: Data from various Indian states</a> R Velraj, F Haghighat Sustainable cities and society 62, 102371	9	2020
<a href="#">Enthalpy based mathematical modelling for thermal energy storage filled with paraffin encapsulated balls as storage material</a> S Karthikeyan, K Ravikumar, G Kumaresan, R Velraj Materials Today: Proceedings		2020
<a href="#">CFD studies on different configurations of drying chamber for thin-layer drying of leaves</a> AK Babu, G Kumaresan, V Antony Aroul Raj, R Velraj Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 42 ...	2	2020
<a href="#">Review on the electrical conductivity of nanofluids: Recent developments</a> GK Poongavanam, S Duraisamy, VS Vigneswaran, V Ramalingam Materials Today: Proceedings		2020

TITLE	CITED BY	YEAR
<a href="#">Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater</a> R Santosh, G Kumaresan, GK Kumar, R Velraj Desalination 484, 114422	2	2020
<a href="#">Experimental analysis and comparison of flat plate solar air heater with and without integrated sensible heat storage</a> G Kalaiarasi, R Velraj, MN Vanjeswaran, NG Pandian Renewable Energy 150, 255-265	5	2020
<a href="#">Experimental Investigations of Thin-layer Drying of Leaves in a Heat-Pump Assisted Tray-type Batch Drying Chamber.</a> AK Babu, G Kumaresan, V Raj, R Velraj Strojniski Vestnik/Journal of Mechanical Engineering 66 (4)		2020
<a href="#">Effect of aspect ratio and dispersed PCM balls on the charging performance of a latent heat thermal storage unit for solar thermal applications</a> ME Afshan, AS Selvakumar, R Velraj, R Rajaraman Renewable Energy 148, 876-888	7	2020
<a href="#">Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications</a> R Santosh, G Kumaresan, S Monisha, GK Kumar, R Velraj Journal of Testing and Evaluation 49 (4)		2020
<a href="#">Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions</a> K Panchabikesan, MM Joybari, F Haghighat, V Ramalingam, Y Ding Energy 192, 116695	8	2020
<a href="#">Unlocking the Potential of Traditional Native Medicines-A Perspective to Manage the COVID-19 Pandemic</a> V Ramalingam, G Venkataramani JOURNAL OF RESEARCH IN TRADITIONAL MEDICINE 6 (1), 21-28		2020
<a href="#">Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings</a> S Kumar, S Arun Prakash, V Pandiyarajan, NB Geetha, ... Journal of Building Physics 43 (4), 351-364	5	2020
<a href="#">Selection of Heat Transfer Fluids for Solar Thermal Applications Using Multi-Criteria Decision-Making Tools</a> PG Kumar, N Yuvaraj, V Kumaresan, R Velraj Journal of Testing and Evaluation 48 (1), 595-612		2020
<a href="#">Thermophysical characterization and comparison of PCMs using DSC and T-History experimental setup</a> L Theresa, R Velraj Materials Research Express 6 (12), 125527	1	2019
<a href="#">Augmenting the productivity of solar still using multiple PCMs as heat energy storage</a> VS Vigneswaran, G Kumaresan, BV Dinakar, KK Kamal, R Velraj Journal of Energy Storage 26, 101019	16	2019

TITLE	CITED BY	YEAR
<a href="#">Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate</a> PG Kumar, K Balaji, D Sakthivadivel, VS Vigneswaran, M Meikandan, ... Thermal Science and Engineering Progress 14, 100403	4	2019
<a href="#">Numerical Investigation on the Effect of Tube Geometry and Feeder Height on the Heat Transfer Performance of Horizontal Tube FallingFilm Evaporation</a> D Balaji, R Velraj, R Murthy Journal of Heat Transfer 141 (11)		2019
<a href="#">Sustainable cooling technologies for building sector</a> M Kesavan, L Chidambaram, R Velraj AIP Conference Proceedings 2161 (1), 020048	1	2019
<a href="#">Comparison of a real-time building with brick and exfoliated vermiculite using OpenStudio modeling for Indian climatic zones</a> L Theresa Innocent, V Ramalingam Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 41 ...	1	2019
<a href="#">Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit</a> R Santosh, G Kumaresan, S Selvaraj, T Arunkumar, R Velraj Desalination 467, 1-11	13	2019
<a href="#">Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel through simulations of velocity contours</a> L Shanmugam, V Ramalingam, S Palaniyandi, S Subramanian Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 41 ...	1	2019
<a href="#">Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger</a> GK Poongavanam, B Kumar, S Duraisamy, K Panchabikesan, ... Renewable Energy 140, 580-591	11	2019
<a href="#">Experimental study on thermal properties and electrical conductivity of stabilized H<sub>2</sub>O-solar glycol mixture based multi-walled carbon nanotube nanofluids: developing a new ...</a> PG Kumar, D Sakthivadivel, M Meikandan, VS Vigneswaran, R Velraj Heliyon 5 (8), e02385	4	2019
<a href="#">Thermodynamic analysis on compressed air energy storage augmenting power/polygeneration for roundtrip efficiency enhancement</a> G Venkataramani, P Vijayamithran, Y Li, Y Ding, H Chen, V Ramalingam Energy 180, 107-120	8	2019
<a href="#">A 50 year review of basic and applied research in compound parabolic concentrating solar thermal collector for domestic and industrial applications</a> V Pranesh, R Velraj, S Christopher, V Kumaresan Solar Energy 187, 293-340	25	2019
<a href="#">Effect of shot peening on enhancing the heat transfer performance of a tubular heat exchanger</a> GK Poongavanam, V Ramalingam International Journal of Thermal Sciences 139, 1-14	12	2019

TITLE	CITED BY	YEAR
<a href="#">Experimental studies on solidification and subcooling characteristics of water-based phase change material (PCM) in a spherical encapsulation for cool thermal energy storage ...</a> MP Vikram, V Kumaresan, S Christopher, R Velraj International Journal of Refrigeration 100, 454-462	8	2019
<a href="#">Experimental investigation on heat transfer and pressure drop of MWCNT-Solar glycol based nanofluids in shot peened double pipe heat exchanger</a> GK Poongavanam, K Panchabikesan, R Murugesan, S Duraisamy, ... Powder Technology 345, 815-824	16	2019
<a href="#">A review of efficient high productivity solar stills</a> T Arunkumar, K Raj, DDW Rufuss, D Denkenberger, G Tingting, L Xuan, ... Renewable and Sustainable Energy Reviews 101, 197-220	42	2019
<a href="#">Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production</a> K Latha, R Velraj, P Shanmugam, S Sivanesan Journal of cleaner production 210, 388-400	42	2019
<a href="#">Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system</a> T Arunkumar, D Murugesan, K Raj, D Denkenberger, C Viswanathan, ... Applied Thermal Engineering 148, 1416-1424	16	2019
<a href="#">Heat transfer studies on solar still assisted with and without latent heat storage material</a> VS Vigneswaran, G Kumaresan, S Elansezhian, R Velraj DESALINATION AND WATER TREATMENT 140, 1-6	2	2019
<a href="#">Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept–A parametric study</a> K Panchabikesan, MV Swami, V Ramalingam, F Haghighat Journal of Energy Storage 21, 48-57	18	2019
<a href="#">Characteristics investigation on thermophysical properties of synthesized activated carbon nanoparticles dispersed in solar glycol</a> GK Poongavanam, V Ramalingam International Journal of Thermal Sciences 136, 15-32	21	2019
<a href="#">Technological advancements in solar energy driven humidification-dehumidification desalination systems-A review</a> R Santosh, T Arunkumar, R Velraj, G Kumaresan Journal of Cleaner Production 207, 826-845	30	2019
<a href="#">Natural-convection heat transfer enhancement of aluminum heat sink using nanocoating by electron beam method</a> SK Pongianan, V Ramalingam, L Nagendran Thermal Science 23 (5 Part B), 3129-3141		2019
<a href="#">Experimental investigation on packed bed cool storage system for supply-demand management in building air conditioning system suitable for micro thermal grid</a> R Narayanasamy, P Vellaichamy, MR Sharma, V Ramalingam Thermal Science, 265-265		2019

TITLE	CITED BY	YEAR
<a href="#">Estimation and validation of interfacial heat transfer coefficient during solidification of spherical shaped aluminum alloy (AL 6061) casting using inverse control volume technique</a> L Gowsalya, R Velraj, R Rajaraman, PD Jeyakumar Frontiers in Heat and Mass Transfer (FHMT) 12	1	2018
<a href="#">Thermal and electrical conductivity enhancement of solar glycol-water mixture containing MWCNTs</a> GK Poongavanam, R Murugesan, V Ramalingam Fullerenes, Nanotubes and Carbon Nanostructures 26 (12), 871-879	10	2018
<a href="#">Experimental investigation on small capacity compressed air energy storage towards efficient utilization of renewable sources</a> G Venkataramani, E Ramakrishnan, MR Sharma, AH Bhaskaran, ... Journal of Energy Storage 20, 364-370	11	2018
<a href="#">Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate</a> GK Poongavanam, K Panchabikesan, AJD Leo, V Ramalingam Renewable Energy 127, 213-229	31	2018
<a href="#">Heat carrier nanofluids in solar still—A review</a> T Arunkumar, K Raj, D Denkenberger, R Velraj Desalination and water treatment 130, 1-16	14	2018
<a href="#">Evaluation of thermal properties of cement-exfoliated vermiculite blocks as energy efficient building envelope material</a> LT Innocent, V Ramalingam Journal of Testing and Evaluation 47 (5), 3480-3495	1	2018
<a href="#">Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation</a> T Arunkumar, AE Kabeel, K Raj, D Denkenberger, R Sathyamurthy, ... Journal of Cleaner Production 195, 1149-1161	42	2018
<a href="#">Experimental and numerical investigation of solar flat plate cooking unit for domestic applications</a> G Kumaresan, R Santosh, G Raju, R Velraj Energy 157, 436-447	12	2018
<a href="#">Combustion, performance and emission characteristics of an unmodified diesel engine fueled with Manilkara Zapota Methyl Ester and its diesel blends</a> RS Kumar, K Sureshkumar, R Velraj Applied Thermal Engineering 139, 196-202	11	2018
<a href="#">Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings</a> T Muthuvelan, K Panchabikesan, R Munisamy, KM Nibhanupudi, ... Advances in Building Energy Research 12 (2), 139-149	25	2018
<a href="#">Harnessing free energy from nature for efficient operation of compressed air energy storage system and unlocking the potential of renewable power generation</a> G Venkataramani, V Ramalingam, K Viswanathan Scientific reports 8 (1), 1-11	10	2018

TITLE	CITED BY	YEAR
<a href="#">Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models</a> AK Babu, G Kumaresan, VAA Raj, R Velraj Renewable and Sustainable Energy Reviews 90, 536-556	63	2018
<a href="#">Transient analysis of steam accumulator integrated with solar based MED-TVC system</a> VSP Raphael, R Velraj, P Jalihal Desalination 435, 3-22	7	2018
<a href="#">Investigation on phase change behavior of paraffin phase change material in a spherical capsule for solar thermal storage units</a> K Hariharan, GSS Kumar, G Kumaresan, R Velraj Heat Transfer Engineering 39 (9), 775-783	12	2018
<a href="#">Interfacial Heat Transfer Coefficient Estimation During Solidification of Rectangular Aluminum Alloy Casting Using Two Different Inverse Methods</a> R Rajaraman, L Anna Gowsalya, R Velraj Frontiers in Heat and Mass Transfer (FHMT) 11	2	2018
<a href="#">Effect of swirl flow injection on latent heat dispersion of spherical PCM capsules with MWCNT fillers.</a> L Selvam, K Vellaisamy, V Ramalingam		2018
<a href="#">Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting</a> P Murugan, P Ganesh Kumar, V Kumaresan, M Meikandan, ... PhaTr 91 (3), 254-270	17	2018
<a href="#">Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit</a> K Panchabikesan, AAR Vincent, Y Ding, V Ramalingam Energy 144, 443-455	29	2018
<a href="#">A review of the role of passive techniques on heat transfer enhancement of horizontal tube falling film and flooded evaporators</a> D Balaji, R Velraj, MVR Murthy Journal of Enhanced Heat Transfer 25 (3)	10	2018
<a href="#">Investigation of Latent Heat Thermal Energy Storage system using PCMs with swirl flow injection by Response Surface Methodology</a> L Selvam, K Vellaisamy, V Ramalingam		2018
<a href="#">Effect of fin orientations in a spherically encapsulated phase change materials for effective heat transfer enhancement</a> K Govindaraj, K Panchabikesan, DC Denkenberger, V Ramalingam Chemical Engineering Transactions 62, 277-282	5	2017
<a href="#">Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system</a> P Sudhakar, G Kumaresan, R Velraj Solar Energy 158, 837-844	11	2017



TITLE	CITED BY	YEAR
<a href="#">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 ...</a> K Panchabikesan, S Abaranji, P Vellaichamy, V Ramalingam Energy and Buildings 152, 250-263	15	2017
<a href="#">Passive cooling potential in buildings under various climatic conditions in India</a> K Panchabikesan, K Vellaisamy, V Ramalingam Renewable and Sustainable Energy Reviews 78, 1236-1252	42	2017
<a href="#">Renewable energy based smart microgrids—A pathway to green port development</a> A Misra, G Venkataramani, S Gowrishankar, E Ayyasam, V Ramalingam Strategic Planning for Energy and the Environment 37 (2), 17-32	12	2017
<a href="#">Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors</a> G Kumaresan, P Sudhakar, R Santosh, R Velraj Renewable and Sustainable Energy Reviews 77, 1363-1374	69	2017
<a href="#">Performance analysis of a small capacity compressed air energy storage system for renewable energy generation using TRNSYS</a> G Venkataramani, V Ramalingam Journal of Renewable and Sustainable Energy 9 (4), 044106	7	2017
<a href="#">Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach</a> T Arunkumar, R Velraj, GO Prado, DC Denkenberger, O Mahian, ... Desalination and Water Treatment 87	7	2017
<a href="#">Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings</a> M Rajagopal, R Dinesh Babu, V Antony Aroul Raj, R Velraj Advances in Building Energy Research 11 (2), 282-304	8	2017
<a href="#">Sustainability and environmental management: Emissions accounting for ports</a> A Misra, K Panchabikesan, E Ayyasamy, V Ramalingam Strategic Planning for Energy and the Environment 37 (1), 8-26	4	2017
<a href="#">Stability, viscosity, thermal conductivity, and electrical conductivity enhancement of multi-walled carbon nanotube nanofluid using gum arabic</a> PG Kumar, V Kumaresan, R Velraj Fullerenes, Nanotubes and Carbon Nanostructures 25 (4), 230-240	28	2017
<a href="#">GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities—a case of the Port of Chennai</a> A Misra, K Panchabikesan, SK Gowrishankar, E Ayyasamy, ... Carbon Management 8 (1), 45-56	9	2017
<a href="#">Sustainable Energy Resources based Smart Microgrid towards Green Port Development-A Pathway for Ecofriendly Society</a> A Misra, G Venkataramani, K Panchabikesan, E Ayyasamy, ... Asian Journal of Research in Social Sciences and Humanities 7 (3), 190-200	1	2017

TITLE	CITED BY	YEAR
<a href="#">Zigbee Based Energy Efficient LED Lighting System</a> R Thenmozhi, C Sharmeela, P Natarajan, R Velraj Journal of Computational and Theoretical Nanoscience 14 (1), 435-440	1	2017
<a href="#">EXPERIMENTAL INVESTIGATION OF THE THERMAL PERFORMANCE OF A HEAT PIPE UNDER VARIOUS MODES OF CONDENSER COOLING</a> A Arulselvan, V Pandiyarajan, R Velraj Heat Transfer Research 48 (13)	1	2017
<a href="#">Role of biodiesel with nanoadditives in port owned trucks and other vehicles for emission reduction</a> A Misra, S Tajudeen, G Venkataramani, E Ayyasamy, V Ramalingam Thermal Science 21 (1 Part B), 605-614	2	2017
<a href="#">Melting/solidification characteristics of paraffin based nanocomposite for thermal energy storage applications</a> S Lokesh, P Murugan, A Sathishkumar, V Kumaresan, R Velraj Thermal Science 21 (6 Part A), 2517-2524	14	2017
<a href="#">Fanning friction (f) and colburn (j) factors of a louvered fin and flat tube compact heat exchanger</a> P Karthik, V Kumaresan, R Velraj Thermal Science 21 (1 Part A), 141-150	4	2017
<a href="#">Experimental study on density, thermal conductivity, specific heat, and viscosity of water-ethylene glycol mixture dispersed with carbon nanotubes</a> J Ganeshkumar, D Kathirkaman, K Raja, V Kumaresan, R Velraj Thermal Science 21 (1 Part A), 255-265	20	2017
<a href="#">Role of PCM addition on stratification behaviour in a thermal storage tank– An experimental study</a> GS Kumar, D Nagarajan, LA Chidambaram, V Kumaresan, Y Ding, ... Energy 115, 1168-1178	25	2016
<a href="#">Influence of crescent shaped absorber in water desalting system</a> T Arunkumar, R Velraj, DC Denkenberger, R Sathyamurthy Desalination 398, 208-213	29	2016
<a href="#">Experimental investigation on thermophysical properties of solar glycol dispersed with multi-walled carbon nanotubes</a> PG Kumar, V Kumaresan, R Velraj Fullerenes, Nanotubes and Carbon Nanostructures 24 (10), 641-652	16	2016
<a href="#">Effect of parabolic solar energy collectors for water distillation</a> T Arunkumar, R Velraj, A Ahsan, AJN Khalifa, S Shams, D Denkenberger, ... Desalination and Water Treatment 57 (45), 21234-21242	23	2016
<a href="#">Experimental energy and exergy analysis of a flat plate solar air heater with a new design of integrated sensible heat storage</a> G Kalaiarasi, R Velraj, MV Swami Energy 111, 609-619	44	2016
<a href="#">Experimental investigation on the phase change material-based modular heat exchanger for thermal management of a building</a> M Rajagopal, R Velraj International Journal of Green Energy 13 (11), 1109-1119	8	2016



TITLE	CITED BY	YEAR
<a href="#">Development of superhydrophobic surface through facile dip coating method</a> M Meikandan, K Malarmohan, R Velraj Digest Journal of Nanomaterials and Biostructures 11, 945-951	7	2016
<a href="#">Solidification characteristics of water based graphene nanofluid PCM in a spherical capsule for cool thermal energy storage applications</a> A Sathishkumar, V Kumaresan, R Velraj International Journal of Refrigeration 66, 73-83	26	2016
<a href="#">Fuzzy logic controller based bridgeless isolated interleaved zeta converter for LED lamp driver application</a> R Thenmozhi, C Sharmeela, P Natarajan, R Velraj International Journal of Power Electronics and Drive Systems 7 (2), 509	5	2016
<a href="#">Theoretical analysis of inclined solar still with baffle plates for improving the fresh water yield</a> R Sathyamurthy, DGH Samuel, PK Nagarajan Process Safety and Environmental Protection 101, 93-107	60	2016
<a href="#">Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system</a> G Kumaresan, VS Vigneswaran, S Esakkimuthu, R Velraj Journal of Energy Storage 6, 70-79	33	2016
<a href="#">Productivity enhancements of compound parabolic concentrator tubular solar stills</a> T Arunkumar, R Velraj, DC Denkenberger, R Sathyamurthy, KV Kumar, ... Renewable energy 88, 391-400	105	2016
<a href="#">Effect of heat removal on tubular solar desalting system</a> T Arunkumar, R Velraj, D Denkenberger, R Sathyamurthy, K Vinothkumar, ... Desalination 379, 24-33	70	2016
<a href="#">Sensible heat storage for solar heating and cooling systems</a> R Velraj Advances in Solar Heating and Cooling, 399-428	4	2016
<a href="#">A review on compressed air energy storage – A pathway for smart grid and polygeneration</a> JW Gayathri Venkataramani, Prasanna Parankusam, Velraj Ramalingam Renewable and Sustainable Energy Reviews 62, 895-907	153	2016
<a href="#">Effects of raw material composition of tung (Vernicia Montana) and jatropa (Jatropha Curcas L) oil methyl esters on their fuel properties: a comparative study in fuel quality ...</a> G Anantharaman, S Krishnamurthy, V Ramalingam International Journal of Oil, Gas and Coal Technology 12 (2), 210-230		2016
<a href="#">Performance evaluation of compressed air energy storage using TRNSYS</a> R Velraj, V Gayathri, A Thenmozhi Journal of Electronic Science and Technology 13 (4), 361-366	3	2015
<a href="#">An Efficient Bridgeless (BI) Isolated Interleaved Zeta Converter for Led Lamp Driver Application</a> R Thenmozhi, C Sharmeela, P Natarajan, R Velraj Research Journal of Applied Sciences, Engineering and Technology 11 (10 ...		2015

TITLE	CITED BY	YEAR
<a href="#">Experimental and parametric studies of a louvered fin and flat tube compact heat exchanger using computational fluid dynamics</a> P Karthik, V Kumaresan, R Velraj Alexandria Engineering Journal 54 (4), 905-915	30	2015
<a href="#">Experimental study on a parabolic concentrator assisted solar desalting system</a> T Arunkumar, D Denkenberger, R Velraj, R Sathyamurthy, H Tanaka, ... Energy Conversion and Management 105, 665-674	68	2015
<a href="#">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</a> P Chandrasekaran, M Cheralathan, R Velraj Energy 90, 807-813	21	2015
<a href="#">Effect of fill volume on solidification characteristics of DI (deionized) water in a spherical capsule—An experimental study</a> P Chandrasekaran, M Cheralathan, R Velraj Energy 90, 508-515	19	2015
<a href="#">Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends—a review</a> T Shaafi, K Sairam, A Gopinath, G Kumaresan, R Velraj Renewable and Sustainable Energy Reviews 49, 563-573	135	2015
<a href="#">Influence of alumina nanoparticles, ethanol and isopropanol blend as additive with diesel–soybean biodiesel blend fuel: Combustion, engine performance and emissions</a> T Shaafi, R Velraj Renewable Energy 80, 655-663	191	2015
<a href="#">CFD analysis in a heat sink for cooling of electronic devices</a> Arularasan A, Velraj R Assumption University	36 *	2015
<a href="#">Experimental investigation of a cascaded latent heat storage system for diesel engine waste heat recovery</a> M Chinnapandian, V Pandiyarajan, A Prabhu, R Velraj Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 37 ...	16	2015
<a href="#">Experimental investigations on the improvement of an air conditioning system with a nanofluid-based intercooler</a> N Balaji, PSM Kumar, R Velraj, N Kulasekharan Arabian Journal for Science and Engineering 40 (6), 1681-1693	12	2015
<a href="#">Effects of the properties and the structural configurations of fatty acid methyl esters on the properties of biodiesel fuel: a review</a> A Gopinath, K Sairam, R Velraj, G Kumaresan Proceedings of the Institution of Mechanical Engineers, Part D: Journal of ...	22	2015
<a href="#">Optimization of biodiesel production from Manilkara zapota (L.) seed oil using Taguchi method</a> RS Kumar, K Sureshkumar, R Velraj Fuel 140, 90-96	149	2015

TITLE	CITED BY	YEAR
<a href="#">Hydrodynamics of a Liquid–Solid Circulating Fluidized Bed: Effect of Solid Feed Pipe Diameter</a> P Natarajan, R Velraj, RV Seeniraj Indian Chemical Engineer 57 (1), 67-81	4	2015
<a href="#">Bagasse dryer</a> R Manohar, R., Velraj International Journal of Applied Engineering Research 10 (16), 37906-37913		2015
<a href="#">Exergy Analysis on Biodiesel Derived from Mahua (Madhuca Indica) Oil and Its Blends with Diesel</a> K Sairam, A Gopinath, R Velraj International Journal of Energy, Environment and Economics 23 (1), 115		2015
<a href="#">Free cooling feasibility of a typical commercial building in Pune city, India</a> M. Thambidurai, N. Krishnamohan, M. Rajagopal, R. Velraj INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH 10 (2), 4419-4435	5 *	2015
<a href="#">Review on phase change material based free cooling of buildings—The way toward sustainability</a> Muthuvelan Thambidurai, Karthik Panchabikesan, Krishna Mohan N, Velraj ... Journal of Energy Storage 4, 74-88	64	2015
<a href="#">Combustion Analysis of Polanga (Calophyllum inophyllum) Biodiesel</a> A Gopinath, K Sairam, R Velraj Applied Mechanics and Materials 812, 51-59	2	2015
<a href="#">Numerical Investigations of Outward Solidification in Cylindrical PCM Storage Unit</a> V Antony Aroul Raj, C Hariharan, R Velraj, RV Seeniraj Applied Mechanics and Materials 787, 177-181	1	2015
<a href="#">Environmental emissions and efficiency of a direct injection diesel engine fueled with various fatty acid methyl esters</a> K Sairam, A Gopinath, R Velraj Environment Protection Engineering 41 (1)	2	2015
<a href="#">CFD analysis of flow and geometric parameter for a double walled solar cooking unit</a> G Kumaresan, G Raju, S Iniyan, R Velraj Applied Mathematical Modelling 39 (1), 137-146	11	2015
<a href="#">Experimental and numerical investigation of a louvered fin and elliptical tube compact heat exchanger</a> K Pooranachandran, KSIL Ali, K Narasingamurthi, V Ramalingam Thermal Science 19 (2), 679-692	15	2015