

Mohanraj M

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.

71
papers

2,404
citations

26
h-index

48
g-index

73
ext. papers

2,875
ext. citations

4.3
avg, IF

5.94
L-index

#	Paper	IF	Citations
71	Energy, financial and environmental impact analysis of solar thermal heat pump systems using a direct expansion packed bed evaporator-collector. <i>Solar Energy</i> , 2022 , 232, 154-168	6.8	1
70	Thermal performance, cost effectiveness and environmental analysis of a heat pump assisted regenerative solar still using slack wax as heat storage material. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102090	4.7	2
69	Second law based thermodynamic analysis of crushed gravel sand and biomass evaporator assisted solar still. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102160	4.7	0
68	Thermodynamic analysis of single slope solar still using graphite plates and block magnets at seasonal climatic conditions. <i>Water Science and Technology</i> , 2021 , 84, 2635-2651	2.2	10
67	Experimental thermodynamic performance analysis of semi-transparent photovoltaic-thermal hybrid collectors using nanofluids. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021 , 235, 1639-1651	1.5	3
66	Experimental studies on photovoltaic-thermal heat pump water heaters using variable frequency drive compressors. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 45, 101152	4.7	2
65	Characterization of mechanical, electrical and thermal properties of Ag nanoparticle-reinforced Al6061 alloy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 2335-2342	4.1	
64	Energy, exergy, economic and enviro-economic (4E) analysis of gravel coarse aggregate sensible heat storage-assisted single-slope solar still. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 475-494	4.1	31
63	Impact of third-grade nanofluid flow across a convective surface in the presence of inclined Lorentz force: an approach to entropy optimization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1935-1947	4.1	28
62	Experimental investigations on jet impingement solar air collectors using pin-fin absorber. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021 , 235, 134-146	1.5	15
61	Thermal analysis of heat pump systems using photovoltaic-thermal collectors: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1-39	4.1	24
60	Photovoltaic thermal collector assisted heat pumps using environment-friendly working fluids. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021 , 235, 694-706	1.5	0
59	Monitoring the neural network modelling of wear behaviour of Ti-6Al-4 V reinforced with nano B4C particle. <i>Materials Today: Proceedings</i> , 2021 , 41, 942-950	1.4	0
58	Performance improvements of single slope solar still using graphite plate fins and magnets. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 20499-20516	5.1	18
57	Effect of deposition thickness on microstructure and thermal behaviour of ZnO-Mg coated AISI 4140 for automotive applications. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021 , 235, 1248-1252	1.5	
56	Experimental assessments on R430A as an environment-friendly replacement to R134a in vehicle air conditioners. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1	2	3
55	Performance and economic analysis of a heat pump water heater assisted regenerative solar still using latent heat storage. <i>Applied Thermal Engineering</i> , 2021 , 196, 117263	5.8	19

54	Experimental investigations of reciprocating wear behavior of metal matrix (Ti/TiB) composites. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	3
53	Microstructure and Corrosion Behavior of ZnO-Mg Coating on AISI 4140 Steel Fabricated by Spray Coating. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5796-5806	1.6	6
52	Experimental study of thermohydraulic characteristics and irreversibility analysis of novel axial corrugated tube with spring tape inserts. <i>EPJ Applied Physics</i> , 2020 , 92, 30901	1.1	8
51	Drying of untreated Musa nendra and Momordica charantia in a forced convection solar cabinet dryer with thermal storage. <i>Energy</i> , 2020 , 192, 116697	7.9	28
50	Environment friendly refrigerant options for automobile air conditioners: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 1	4.1	8
49	Thermal analysis and energy systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 2165-2167	4.1	
48	Numerical simulation on solar collector and cascade heat pump combi water heating systems in Kazakhstan climates. <i>Renewable Energy</i> , 2020 , 145, 1222-1234	8.1	21
47	Special Issue on Thermal Analysis and Energy Systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1-4	4.1	1
46	Numerical simulation of a heat pump assisted solar dryer for continental climates. <i>Renewable Energy</i> , 2019 , 143, 214-225	8.1	26
45	Performance of photovoltaic water pumping systems under the influence of panel cooling. <i>Renewable Energy Focus</i> , 2019 , 31, 31-44	5.4	9
44	Experimental investigations on R430A as a drop-in substitute for R134a in domestic refrigerators. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019 , 233, 728-738	1.5	12
43	Experimental thermodynamic analysis of a forced convection solar air heater using absorber plate with pin-fins. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 39-47	4.1	31
42	Thermodynamic performance of automobile air conditioners working with R430A as a drop-in substitute to R134a. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 2071-2086	4.1	21
41	Experimental investigation and analysis of drilling parameters of metal matrix (Ti/TiB) composites. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	6
40	Thermal Performance Simulation of a Heat Pump Assisted Solar Desalination System for Kazakhstan Climatic Conditions. <i>Heat Transfer Engineering</i> , 2019 , 40, 1060-1072	1.7	19
39	Research and developments on solar assisted compression heat pump systems [A comprehensive review (Part A: Modeling and modifications)]. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 83, 90-123	16.2	114
38	Research and developments on solar assisted compression heat pump systems [A comprehensive review (Part-B: Applications)]. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 83, 124-155	16.2	104
37	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 2223-2237	4.1	12

36	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A 2018 , 134, 2223		1
35	A Comprehensive Model and Holistic Approach for Implementing an Integrated Management Systems. <i>Journal of Computational and Theoretical Nanoscience</i> , 2018 , 15, 392-401	0.3	8
34	Experimental investigations on a forced convection solar air heater using packed bed absorber plates with phase change materials. <i>International Journal of Green Energy</i> , 2017 , 14, 1238-1255	3	29
33	Comparison of energy performance of heat pumps using a photovoltaic thermal evaporator with circular and triangular tube configurations. <i>Building Simulation</i> , 2016 , 9, 27-41	3.9	16
32	Thermodynamic performance of forced convection solar air heaters using pin fin absorber plate packed with latent heat storage materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 126, 1657-1678	4.1	56
31	A Study on Relationship Between Casting Geometric Modulus and Feeding Distance of Ductile Iron Bar-Shaped Castings. <i>International Journal of Metalcasting</i> , 2016 , 10, 477-482	1.4	
30	Applications of artificial neural networks for thermal analysis of heat exchangers [A review]. <i>International Journal of Thermal Sciences</i> , 2015 , 90, 150-172	4.1	172
29	Role of powder metallurgical processing and TiB reinforcement on mechanical response of Ti/TiB composites. <i>Materials Letters</i> , 2015 , 144, 58-61	3.3	29
28	Mechanical Properties of Titanium/Titanium Boride Composites Through Nanoindentation and Ultrasonic Techniques [An Evaluation Perspective]. <i>Powder Metallurgy and Metal Ceramics</i> , 2015 , 53, 557-565	0.8	9
27	Artificial neural network modeling of a photovoltaic-thermal evaporator of solar assisted heat pumps. <i>Energy</i> , 2015 , 93, 908-922	7.9	63
26	Optimization of surface roughness, cutting force and tool wear of nitrogen alloyed duplex stainless steel in a dry turning process using Taguchi method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 49, 205-215	4.6	142
25	Synthesis and Characterization of Ti-TiB Composites Processed through Vacuum Sintering. <i>Applied Mechanics and Materials</i> , 2014 , 592-594, 765-769	0.3	
24	Performance of a solar-ambient hybrid source heat pump drier for copra drying under hot-humid weather conditions. <i>Energy for Sustainable Development</i> , 2014 , 23, 165-169	5.4	34
23	Renewable energy source water pumping systems [A literature review]. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 351-370	16.2	142
22	Energy performance assessment of R430A as a possible alternative refrigerant to R134a in domestic refrigerators. <i>Energy for Sustainable Development</i> , 2013 , 17, 471-476	5.4	32
21	A CAN bus based system for monitoring and fault diagnosis in wind turbine 2013 ,		4
20	Applications of artificial neural networks for refrigeration, air-conditioning and heat pump systems [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 1340-1358	16.2	250
19	Characterisation of titanium/titanium boride composites processed by powder metallurgy techniques. <i>Materials Characterization</i> , 2012 , 73, 43-51	3.9	59

18	A review on recent developments in new refrigerant mixtures for vapour compression-based refrigeration, air-conditioning and heat pump units. <i>International Journal of Energy Research</i> , 2011 , 35, 647-669	4.5	106
17	Exergy Assessment of a Direct Expansion Solar-Assisted Heat Pump Working with R22 and R407C/LPG Mixture. <i>International Journal of Green Energy</i> , 2010 , 7, 65-83	3	32
16	A comparison of the performance of a direct expansion solar assisted heat pump working with R22 and a mixture of R407C liquefied petroleum gas. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2009 , 223, 821-833	1.6	17
15	Performance of a solar drier with and without heat storage material for copra drying. <i>International Journal of Global Energy Issues</i> , 2009 , 31, 112	0.3	15
14	Exergy analysis of direct expansion solar-assisted heat pumps using artificial neural networks. <i>International Journal of Energy Research</i> , 2009 , 33, 1005-1020	4.5	40
13	High levels of fusidic acid-resistant <i>Staphylococcus aureus</i> despite restrictions on antibiotic use. <i>Clinical and Experimental Dermatology</i> , 2009 , 34, 136-9	1.8	12
12	Environment friendly alternatives to halogenated refrigerants—A review. <i>International Journal of Greenhouse Gas Control</i> , 2009 , 3, 108-119	4.2	183
11	Performance prediction of a direct expansion solar assisted heat pump using artificial neural networks. <i>Applied Energy</i> , 2009 , 86, 1442-1449	10.7	67
10	Experimental investigation of R290/R600a mixture as an alternative to R134a in a domestic refrigerator. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 1036-1042	4.1	99
9	Modeling of a Direct Expansion Solar Assisted Heat Pump Using Artificial Neural Networks. <i>International Journal of Green Energy</i> , 2008 , 5, 520-532	3	35
8	Performance of a heat pump drier for copra drying. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2008 , 222, 283-287	1.6	7
7	Comparative assessment of environment-friendly alternatives to R134a in domestic refrigerators. <i>Energy Efficiency</i> , 2008 , 1, 189-198	3	24
6	Drying of copra in a forced convection solar drier. <i>Biosystems Engineering</i> , 2008 , 99, 604-607	4.8	40
5	Improved energy efficiency for HFC134a domestic refrigerator retrofitted with hydrocarbon mixture (HC290/HC600a) as drop-in substitute. <i>Energy for Sustainable Development</i> , 2007 , 11, 29-33	5.4	16
4	High levels of fusidic acid-resistant <i>Staphylococcus aureus</i> in dermatology patients. <i>British Journal of Dermatology</i> , 2003 , 148, 1018-20	4	66
3	Thermodynamic analysis of a heat pump assisted active solar still 154, 101-110		9
2	Experimental studies on direct expansion solar thermal heat pump systems using R430A as a substitute to R134a. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892110209	1.5	1
1	Influence of rotation speeds on microstructure and mechanical properties of welded joints of friction stir welded AA2014-T6/AA6061-T6 alloys. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892210776	1.5	4

