

# Mohanraj M

## List of Publications by Citations

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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	Applications of artificial neural networks for refrigeration, air-conditioning and heat pump systems A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 1340-1358	16.2	250
70	Environment friendly alternatives to halogenated refrigerants A review. <i>International Journal of Greenhouse Gas Control</i> , <b>2009</b> , 3, 108-119	4.2	183
69	Applications of artificial neural networks for thermal analysis of heat exchangers [A review. <i>International Journal of Thermal Sciences</i> , <b>2015</b> , 90, 150-172	4.1	172
68	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> , <b>2014</b> , 49, 205-215	4.6	142
67	Renewable energy source water pumping systems A literature review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 25, 351-370	16.2	142
66	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> , <b>2018</b> , 83, 90-123	16.2	114
65	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> , <b>2011</b> , 35, 647-669	4.5	106
64	Research and developments on solar assisted compression heat pump systems [A comprehensive review (Part-B: Applications). <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 83, 124-155	16.2	104
63	Experimental investigation of R290/R600a mixture as an alternative to R134a in a domestic refrigerator. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 1036-1042	4.1	99
62	Performance prediction of a direct expansion solar assisted heat pump using artificial neural networks. <i>Applied Energy</i> , <b>2009</b> , 86, 1442-1449	10.7	67
61	High levels of fusidic acid-resistant Staphylococcus aureus in dermatology patients. <i>British Journal of Dermatology</i> , <b>2003</b> , 148, 1018-20	4	66
60	Artificial neural network modeling of a photovoltaic-thermal evaporator of solar assisted heat pumps. <i>Energy</i> , <b>2015</b> , 93, 908-922	7.9	63
59	Characterisation of titanium titanium boride composites processed by powder metallurgy techniques. <i>Materials Characterization</i> , <b>2012</b> , 73, 43-51	3.9	59
58	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> , <b>2016</b> , 126, 1657-1678	4.7	56
57	Exergy analysis of direct expansion solar-assisted heat pumps using artificial neural networks. <i>International Journal of Energy Research</i> , <b>2009</b> , 33, 1005-1020	4.5	40
56	Drying of copra in a forced convection solar drier. <i>Biosystems Engineering</i> , <b>2008</b> , 99, 604-607	4.8	40
55	Modeling of a Direct Expansion Solar Assisted Heat Pump Using Artificial Neural Networks. <i>International Journal of Green Energy</i> , <b>2008</b> , 5, 520-532	3	35

54	Performance of a solar-ambient hybrid source heat pump drier for copra drying under hot-humid weather conditions. <i>Energy for Sustainable Development</i> , <b>2014</b> , 23, 165-169	5-4	34
53	Energy performance assessment of R430A as a possible alternative refrigerant to R134a in domestic refrigerators. <i>Energy for Sustainable Development</i> , <b>2013</b> , 17, 471-476	5-4	32
52	Exergy Assessment of a Direct Expansion Solar-Assisted Heat Pump Working with R22 and R407C/LPG Mixture. <i>International Journal of Green Energy</i> , <b>2010</b> , 7, 65-83	3	32
51	Experimental thermodynamic analysis of a forced convection solar air heater using absorber plate with pin-fins. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 136, 39-47	4-1	31
50	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> , <b>2021</b> , 145, 475-494	4-1	31
49	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> , <b>2017</b> , 14, 1238-1255	3	29
48	Role of powder metallurgical processing and TiB reinforcement on mechanical response of Ti-10B composites. <i>Materials Letters</i> , <b>2015</b> , 144, 58-61	3-3	29
47	Drying of untreated Musa nendra and Momordica charantia in a forced convection solar cabinet dryer with thermal storage. <i>Energy</i> , <b>2020</b> , 192, 116697	7-9	28
46	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> , <b>2021</b> , 144, 1935-1947	4-1	28
45	Numerical simulation of a heat pump assisted solar dryer for continental climates. <i>Renewable Energy</i> , <b>2019</b> , 143, 214-225	8-1	26
44	Comparative assessment of environment-friendly alternatives to R134a in domestic refrigerators. <i>Energy Efficiency</i> , <b>2008</b> , 1, 189-198	3	24
43	Thermal analysis of heat pump systems using photovoltaic-thermal collectors: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1-39	4-1	24
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> , <b>2019</b> , 136, 2071-2086	4-1	21
41	Numerical simulation on solar collector and cascade heat pump combi water heating systems in Kazakhstan climates. <i>Renewable Energy</i> , <b>2020</b> , 145, 1222-1234	8-1	21
40	Thermal Performance Simulation of a Heat Pump Assisted Solar Desalination System for Kazakhstan Climatic Conditions. <i>Heat Transfer Engineering</i> , <b>2019</b> , 40, 1060-1072	1-7	19
39	Performance and economic analysis of a heat pump water heater assisted regenerative solar still using latent heat storage. <i>Applied Thermal Engineering</i> , <b>2021</b> , 196, 117263	5-8	19
38	Performance improvements of single slope solar still using graphite plate fins and magnets. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 20499-20516	5-1	18
37	A comparison of the performance of a direct expansion solar assisted heat pump working with R22 and a mixture of R407C and liquefied petroleum gas. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , <b>2009</b> , 223, 821-833	1-6	17

36	Comparison of energy performance of heat pumps using a photovoltaic thermal evaporator with circular and triangular tube configurations. <i>Building Simulation</i> , <b>2016</b> , 9, 27-41	3.9	16
35	Improved energy efficiency for HFC134a domestic refrigerator retrofitted with hydrocarbon mixture (HC290/HC600a) as drop-in substitute. <i>Energy for Sustainable Development</i> , <b>2007</b> , 11, 29-33	5.4	16
34	Performance of a solar drier with and without heat storage material for copra drying. <i>International Journal of Global Energy Issues</i> , <b>2009</b> , 31, 112	0.3	15
33	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> , <b>2021</b> , 235, 134-146	1.5	15
32	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 2223-2237	4.1	12
31	High levels of fusidic acid-resistant <i>Staphylococcus aureus</i> despite restrictions on antibiotic use. <i>Clinical and Experimental Dermatology</i> , <b>2009</b> , 34, 136-9	1.8	12
30	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> , <b>2019</b> , 233, 728-738	1.5	12
29	Thermodynamic analysis of single slope solar still using graphite plates and block magnets at seasonal climatic conditions. <i>Water Science and Technology</i> , <b>2021</b> , 84, 2635-2651	2.2	10
28	Mechanical Properties of Titanium/Titanium Boride Composites Through Nanoindentation and Ultrasonic Techniques [An Evaluation Perspective]. <i>Powder Metallurgy and Metal Ceramics</i> , <b>2015</b> , 53, 557-565	0.8	9
27	Thermodynamic analysis of a heat pump assisted active solar still 154, 101-110		9
26	Performance of photovoltaic water pumping systems under the influence of panel cooling. <i>Renewable Energy Focus</i> , <b>2019</b> , 31, 31-44	5.4	9
25	Experimental study of thermohydraulic characteristics and irreversibility analysis of novel axial corrugated tube with spring tape inserts. <i>EPJ Applied Physics</i> , <b>2020</b> , 92, 30901	1.1	8
24	Environment friendly refrigerant options for automobile air conditioners: a review. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 1	4.1	8
23	A Comprehensive Model and Holistic Approach for Implementing an Integrated Management Systems. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2018</b> , 15, 392-401	0.3	8
22	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> , <b>2008</b> , 222, 283-287	1.6	7
21	Microstructure and Corrosion Behavior of ZnO-Mg Coating on AISI 4140 Steel Fabricated by Spray Coating. <i>Journal of Materials Engineering and Performance</i> , <b>2020</b> , 29, 5796-5806	1.6	6
20	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> , <b>2019</b> , 41, 1	2	6
19	A CAN bus based system for monitoring and fault diagnosis in wind turbine <b>2013</b> ,		4

18	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
17	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
16	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
15	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
14	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
13	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
12	Special Issue on Thermal Analysis and Energy Systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1-4	4-1	1
11	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
10	Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A 2018, 134, 2223		1
9	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
8	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
7	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
6	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
5	Synthesis and Characterization of Ti-TiB Composites Processed through Vacuum Sintering. <i>Applied Mechanics and Materials</i> , 2014, 592-594, 765-769	0.3	
4	Thermal analysis and energy systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2165-2167	4.1	
3	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	
2	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	
1	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	

