

Shiva Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

903
citations

623574

14
h-index

501076

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all docs

51
docs citations

51
times ranked

676
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of process parameters in a dehumidification process using biomass-based wood shaving as a packing material. <i>Indoor and Built Environment</i> , 2022, 31, 496-509.	1.5	6
2	Investigation on the performance of LDDS using biomass-based wood shaving as the packing material. <i>International Journal of Sustainable Energy</i> , 2022, 41, 731-750.	1.3	1
3	Modelling of a multistage reciprocating humidifier and performance analysis for various packing configurations. <i>Energy</i> , 2022, 241, 122898.	4.5	4
4	Experimental investigation of SI engine characteristics using Acetone-Butanol-Ethanol (ABE) " Gasoline blends and optimization using Particle Swarm Optimization. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 5692-5708.	3.8	11
5	Numerical analysis-based performance prediction in a direct evaporative cooler used for building cooling. <i>Journal of Building Performance Simulation</i> , 2022, 15, 237-250.	1.0	0
6	Theoretical and experimental study of the multistage dynamic dehumidifier for enhanced thermal comfort conditions in a building. <i>Journal of Building Performance Simulation</i> , 2022, 15, 345-361.	1.0	2
7	Experimental investigation on the humidification parameters of the reciprocating multistage evaporative Cooler-A novel approach. <i>International Journal of Thermal Sciences</i> , 2022, 177, 107539.	2.6	1
8	Experimental investigation on the performance parameters of a helical coil dehumidifier test rig. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 35-53.	1.2	14
9	Impact of alumina and cerium oxide nanoparticles on tailpipe emissions of waste cooking oil biodiesel fuelled CI engine. <i>Cogent Engineering</i> , 2021, 8, .	1.1	14
10	Combined influence of fuel injection strategy and nanoparticle additives on the performance and emission characteristics of a biodiesel fueled engine. <i>Cogent Engineering</i> , 2021, 8, .	1.1	3
11	Application of soft computing techniques to optimize thermal parameters in a double heat exchanger with cylindrical turbulators. <i>Heat Transfer</i> , 2021, 50, 5286-5303.	1.7	4
12	Experimental investigation on use of alternative innovative materials for sustainable cooling applications. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 1207-1217.	1.9	10
13	Experimental investigation of humidification parameters using biomass-based charcoal as an alternative packing material. <i>Journal of King Saud University, Engineering Sciences</i> , 2021, , .	1.2	0
14	Thermo-hydraulic performance prediction of a solar air heater with circular perforated absorber plate using Artificial Neural Network. <i>Thermal Science and Engineering Progress</i> , 2021, 23, 100886.	1.3	17
15	Modeling and prediction of NO _x emission in an LPG-diesel dual-fuel CI engine. <i>Heat Transfer</i> , 2021, 50, 6847-6867.	1.7	6
16	Experimental Investigation and Neural network based parametric prediction in a multistage reciprocating humidifier. <i>Applied Energy</i> , 2021, 293, 116958.	5.1	17
17	Sustainable Energy Techniques Adapted in Buildings to Regulate Moisture Transport and Enhance Thermal Comfort: A Review. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2021, 29, .	0.8	4
18	Experimental investigations of humidification parameters and transient analysis in a rotating centrifugal humidifier. <i>Journal of Building Engineering</i> , 2021, 41, 102770.	1.6	1

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19	Experimental study on thermo-hydraulic performance of a solar air heater with rectangular perforated duct inserts. <i>Solar Energy</i> , 2021, 227, 179-189.	2.9	21
20	Effect of climatic conditions on the performance of a multistage dynamic dehumidifier test rig. <i>Building and Environment</i> , 2021, 205, 108245.	3.0	5
21	Experimental investigation of the influence of vapor compression refrigeration in a multistage reciprocating dehumidifier test rig. <i>Applied Thermal Engineering</i> , 2021, 199, 117546.	3.0	4
22	Dynamic dehumidifier characterisation under varied climatic conditions & pad thickness. <i>Building and Environment</i> , 2021, 208, 108593.	3.0	2
23	Experimental Analysis and Parametric Study on the Dehumidification System Using Liquid Hybrid Desiccants-A Source of Sustainable Energy. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2021, 29, .	0.8	0
24	Potential Alternative Materials used in Evaporative Coolers for Sustainable Energy Applications: A Review. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2020, 28, 2030006.	0.8	10
25	Review on the Influence of Various Types Liquid Desiccants on the Performance of Dehumidification System. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2020, 28, 2030005.	0.8	3
26	Effect of hemispherical turbulators in a double-pipe heat exchanger for heat transfer augmentation. <i>Journal of Turbulence</i> , 2020, 21, 166-185.	0.5	7
27	Review on the design modifications of a solar air heater for improvement in the thermal performance. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100685.	1.7	70
28	Influence of Different Desiccants, Flow Type and Packings on the Liquid Desiccant Dehumidification System: A Review. <i>International Journal of Air-Conditioning and Refrigeration</i> , 2020, 28, 2030002.	0.8	27
29	Analysis of a solar air heater for augmented thermohydraulic performance using helicoidal spring shaped fins-A numerical study. <i>Renewable Energy</i> , 2020, 160, 297-311.	4.3	43
30	Combined effect of oxygenated liquid and metal oxide nanoparticle fuel additives on the combustion characteristics of a biodiesel engine operated with higher blend percentages. <i>Energy</i> , 2020, 197, 117194.	4.5	48
31	Numerical investigation on the heat transfer characteristics in a circular pipe using multiple twisted tapes in laminar flow conditions. <i>Heat Transfer - Asian Research</i> , 2019, 48, 3399-3419.	2.8	2
32	Parametric study on the heat transfer characteristics in a circular tube with helical tape insert under laminar flow conditions. <i>Heat Transfer - Asian Research</i> , 2019, 48, 3384-3398.	2.8	3
33	Effect of injection pressure on the combustion, performance and emission characteristics of a biodiesel engine with cerium oxide nanoparticle additive. <i>Energy</i> , 2019, 185, 1163-1173.	4.5	97
34	Numerical investigation of heat transfer through a square heat exchanger with a twisted tape as a heat augmentation device. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
35	Combustion, performance, and emissions of a compression ignition engine using Pongamia biodiesel and bioethanol. <i>Environmental Science and Pollution Research</i> , 2019, 26, 8069-8079.	2.7	11
36	Experimental and numerical analysis of cylindrical turbulators in a double pipe heat exchanger under turbulent flow conditions. <i>Journal of Turbulence</i> , 2019, 20, 245-262.	0.5	7

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37	Combined effects of water emulsion and diethyl ether additive on combustion performance and emissions of a compression ignition engine using biodiesel blends. <i>Energy</i> , 2019, 179, 928-937.	4.5	52
38	Experimental investigation of the effects of nanoparticles as an additive in diesel and biodiesel fuelled engines: a review. <i>Biofuels</i> , 2019, 10, 615-622.	1.4	43
39	Biomass Briquettes as an Alternative Fuel: A Comprehensive Review. <i>Energy Technology</i> , 2019, 7, 1801011.	1.8	60
40	Use of alternative fuels in compression ignition engines: a review. <i>Biofuels</i> , 2019, 10, 525-535.	1.4	12
41	Performance and emission characteristics of a bio-lubricated two-stroke gasoline engine. <i>Environmental Science and Pollution Research</i> , 2018, 25, 17789-17796.	2.7	3
42	Optimization of engine parameters in a bio diesel engine run with honge methyl ester using response surface methodology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 224-231.	2.5	80
43	Cashew Nut Shell Liquid as a Fuel for Compression Ignition Engines: A Comprehensive Review. <i>Energy & Fuels</i> , 2018, 32, 7237-7244.	2.5	17
44	Optimization of thermal parameters in a double pipe heat exchanger with a twisted tape using response surface methodology. <i>Soft Computing</i> , 2018, 22, 6261-6270.	2.1	5
45	NUMERICAL STUDY OF THE INFLUENCE OF DESIGN PARAMETERS ON HEAT TRANSFER IN A HELICALLY COILED HEAT EXCHANGER. <i>Heat Transfer Research</i> , 2018, 49, 1431-1443.	0.9	2
46	Numerical Analysis of Heat transfer Enhancement in a double pipe heat exchanger with a holed twisted tape. <i>MATEC Web of Conferences</i> , 2018, 144, 04012.	0.1	0
47	Influence of nanoparticles on the performance and emission characteristics of a biodiesel fuelled engine: An experimental analysis. <i>Energy</i> , 2017, 140, 98-105.	4.5	122
48	Prediction of performance and emission characteristics in a biodiesel engine using WCO ester: a comparative study of neural networks. <i>Soft Computing</i> , 2016, 20, 2665-2676.	2.1	9
49	Radial-Basis-Function-Network-Based Prediction of Performance and Emission Characteristics in a Bio Diesel Engine Run on WCO Ester. <i>Advances in Artificial Intelligence</i> , 2012, 2012, 1-7.	0.9	10
50	Parametric Analysis for Varying Packing Materials and Water Temperatures in a Humidifier. , 0, , .		13
51	A novel study on a centrifugal humidifier for building cooling. <i>International Journal of Sustainable Energy</i> , 0, , 1-17.	1.3	0