

Dr D Sakthivadivel

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

479
citations

759190

12
h-index

713444

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31
docs citations

31
times ranked

383
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigations of stability, density, thermal conductivity, and electrical conductivity of solar glycol-amine-functionalized graphene and MWCNT-based hybrid nanofluids. <i>Environmental Science and Pollution Research</i> , 2022, 29, 8731-8745.	5.3	7
2	Ultrasonication time optimization for multi-walled carbon nanotube based Therminol-55 nanofluid: an experimental investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10329-10336.	3.6	11
3	Energy and environmental analysis of a solar evacuated tube heat pipe integrated thermoelectric generator using IoT. <i>Environmental Science and Pollution Research</i> , 2022, 29, 57835-57850.	5.3	10
4	Computational modeling and performance evaluation of an advanced micro-gasifier cookstove with optimum air injection. <i>Biofuels</i> , 2021, 12, 1029-1039.	2.4	5
5	Review on the electrical conductivity of nanofluids: Recent developments. <i>Materials Today: Proceedings</i> , 2021, 39, 1532-1537.	1.8	5
6	Selection of optimum glazing material for solar thermal applications using TOPSIS methodology. <i>International Journal of Ambient Energy</i> , 2021, 42, 274-278.	2.5	9
7	Selection of optimal glazing material for solar thermal applications using grey relational analysis. <i>International Journal of Ambient Energy</i> , 2021, 42, 764-768.	2.5	11
8	Multi-wall carbon nanotubes coating on a copper substrate using airbrush spray coating. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 285-291.	2.5	3
9	Solar energy technologies: principles and applications. , 2021, , 3-42.		7
10	Experimental investigation on photothermal conversion using solar glycol/MWCNTs based nanofluids. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 259-265.	2.5	4
11	Effect of shot blasting on droplet contact angle of carbon aided phase change nanocomposites. <i>Surface Engineering</i> , 2021, 37, 1002-1011.	2.2	13
12	Enhancement of heat transfer in a combined solar air heating and water heater system. <i>Energy</i> , 2021, 221, 119805.	8.8	18
13	Performance enhancement of a double-pass solar air heater with a shot-blasted absorber plate and winglets. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 2743-2753.	1.5	15
14	A Study on the Performance and CO ₂ Mitigation Potential of an Advanced Micro-gasifier Cookstoves for Sustainable Development. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 123-129.	0.4	1
15	Characterization, density and size effects of fuels in an advanced micro-gasifier stove. <i>Biofuels</i> , 2020, 11, 857-869.	2.4	11
16	Thermal performance augmentation of a solar flat plate collector using the shot peening technique. <i>Science and Technology for the Built Environment</i> , 2020, 26, 437-445.	1.7	16
17	Thermal transport properties of carbon-assisted phase change nanocomposite. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 925-933.	2.1	22
18	Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate. <i>Thermal Science and Engineering Progress</i> , 2019, 14, 100403.	2.7	9

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19	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 correlation. <i>Heliyon</i> , 2019, 5, e02385.	3.2	24
20	Experimental investigation on flat plate solar collector using frictionally engaged thermal performance enhancer in the absorber tube. <i>Renewable Energy</i> , 2019, 142, 62-72.	8.9	30
21	Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger. <i>Renewable Energy</i> , 2019, 140, 580-591.	8.9	29
22	Experimental investigation on heat transfer and pressure drop of MWCNT - Solar glycol based nanofluids in shot peened double pipe heat exchanger. <i>Powder Technology</i> , 2019, 345, 815-824.	4.2	49
23	Experimental investigation of doped mwcnts on biodiesel for enhancement of the performance and exhaust emissions in a diesel engine. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2019, 27, 358-366.	2.1	6
24	Experimental design and 4E (energy, exergy, emission, and economical) analysis of a fixed bed advanced microgasifier stove. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 2139-2147.	2.3	3
25	Combustion characteristics of biomass fuels in a fixed bed micro-gasifier cook stove. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 995-1002.	1.5	22
26	Development of Advanced Cook Stove with Optimum Air Mixture using CFD. <i>Asian Journal of Research in Social Sciences and Humanities</i> , 2017, 7, 384.	0.0	2
27	Design, embodied energy analysis and GHG emissions of solar central receiver power tower (CRPT) for a 5kW system. , 2013, , .		1
28	Performance evaluation of three types of forced draft cook stoves using fuel wood and coconut shell. <i>Biomass and Bioenergy</i> , 2013, 49, 333-340.	5.7	62
29	Opportunities and challenges in setting up solar photo voltaic based micro grids for electrification in rural areas of India. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3320-3325.	16.4	71
30	Experimental Analysis and Thermal Behavior of Conventional Flat Plate Collector and Sun Point Collector of 1 m ² Area. <i>Applied Mechanics and Materials</i> , 0, 592-594, 1852-1858.	0.2	1
31	Energy and Exergy Analysis of an Advanced Cookstove-Based Annular Thermoelectric Cogeneration System. , 0, , .		2