

Dr D Sakthivadivel

List of Publications by Year in descending order

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31
papers

479
citations

759233
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all docs

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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. Environmental Science and Pollution Research, 2022, 29, 8731-8745.	5.3	7
2	Ultrasonication time optimization for multi-walled carbon nanotube based Therminol-55 nanofluid: an experimental investigation. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10329-10336.	3.6	11
3	Energy and environmental analysis of a solar evacuated tube heat pipe integrated thermoelectric generator using IoT. Environmental Science and Pollution Research, 2022, 29, 57835-57850.	5.3	10
4	Computational modeling and performance evaluation of an advanced micro-gasifier cookstove with optimum air injection. Biofuels, 2021, 12, 1029-1039.	2.4	5
5	Review on the electrical conductivity of nanofluids: Recent developments. Materials Today: Proceedings, 2021, 39, 1532-1537.	1.8	5
6	Selection of optimum glazing material for solar thermal applications using TOPSIS methodology. International Journal of Ambient Energy, 2021, 42, 274-278.	2.5	9
7	Selection of optimal glazing material for solar thermal applications using grey relational analysis. International Journal of Ambient Energy, 2021, 42, 764-768.	2.5	11
8	Multi-wall carbon nanotubes coating on a copper substrate using airbrush spray coating. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 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. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 259-265.	2.5	4
11	Effect of shot blasting on droplet contact angle of carbon aided phase change nanocomposites. Surface Engineering, 2021, 37, 1002-1011.	2.2	13
12	Enhancement of heat transfer in a combined solar air heating and water heater system. Energy, 2021, 221, 119805.	8.8	18
13	Performance enhancement of a double-pass solar air heater with a shot-blasted absorber plate and winglets. Journal of Mechanical Science and Technology, 2021, 35, 2743-2753.	1.5	15
14	A Study on the Performance and CO2 Mitigation Potential of an Advanced Micro-gasifier Cookstoves for Sustainable Development. Lecture Notes in Mechanical Engineering, 2021, , 123-129.	0.4	1
15	Characterization, density and size effects of fuels in an advanced micro-gasifier stove. Biofuels, 2020, 11, 857-869.	2.4	11
16	Thermal performance augmentation of a solar flat plate collector using the shot peening technique. Science and Technology for the Built Environment, 2020, 26, 437-445.	1.7	16
17	Thermal transport properties of carbon-assisted phase change nanocomposite. Fullerenes Nanotubes and Carbon Nanostructures, 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. Thermal Science and Engineering Progress, 2019, 14, 100403.	2.7	9

#	ARTICLE	IF	CITATIONS
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. Heliyon, 2019, 5, e02385.	3.2	24
20	Experimental investigation on flat plate solar collector using frictionally engaged thermal performance enhancer in the absorber tube. Renewable Energy, 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. Renewable Energy, 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. Powder Technology, 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. Fullerenes Nanotubes and Carbon Nanostructures, 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. Environmental Progress and Sustainable Energy, 2018, 37, 2139-2147.	2.3	3
25	Combustion characteristics of biomass fuels in a fixed bed micro-gasifier cook stove. Journal of Mechanical Science and Technology, 2017, 31, 995-1002.	1.5	22
26	Development of Advanced Cook Stove with Optimum Air Mixture using CFD. Asian Journal of Research in Social Sciences and Humanities, 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. Biomass and Bioenergy, 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. Renewable and Sustainable Energy Reviews, 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. Applied Mechanics and Materials, 0, 592-594, 1852-1858.	0.2	1
31	Energy and Exergy Analysis of an Advanced Cookstove-Based Annular Thermoelectric Cogeneration System. , 0, , .		2