

Murugesan Chandrasekar

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

3,710
citations

331538

21
h-index

526166

27
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all docs

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docs citations

31
times ranked

2722
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Al ₂ O ₃ -Cu/water hybrid nanofluids using two step method and its thermo physical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 388, 41-48.	2.3	746
2	Effect of Al ₂ O ₃ -Cu/water hybrid nanofluid in heat transfer. <i>Experimental Thermal and Fluid Science</i> , 2012, 38, 54-60.	1.5	722
3	Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al ₂ O ₃ /water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 210-216.	1.5	624
4	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid in a circular pipe under laminar flow with wire coil inserts. <i>Experimental Thermal and Fluid Science</i> , 2010, 34, 122-130.	1.5	207
5	Passive cooling of standalone flat PV module with cotton wick structures. <i>Energy Conversion and Management</i> , 2013, 71, 43-50.	4.4	207
6	A Review on the Mechanisms of Heat Transport in Nanofluids. <i>Heat Transfer Engineering</i> , 2009, 30, 1136-1150.	1.2	170
7	Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under turbulent flow in a helically dimpled tube. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 542-549.	1.5	162
8	Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3917-3938.	8.2	150
9	Experimental demonstration of enhanced solar energy utilization in flat PV (photovoltaic) modules cooled by heat spreaders in conjunction with cotton wick structures. <i>Energy</i> , 2015, 90, 1401-1410.	4.5	89
10	A review on the thermal regulation techniques for non integrated flat PV modules mounted on building top. <i>Energy and Buildings</i> , 2015, 86, 692-697.	3.1	88
11	Assessment of fuel properties, engine performance and emission characteristics of outdoor grown marine <i>Chlorella vulgaris</i> BDUC 91771 biodiesel. <i>Renewable Energy</i> , 2017, 105, 637-646.	4.3	83
12	A comparison of thermal characteristics of Al ₂ O ₃ /water and CuO/water nanofluids in transition flow through a straight circular duct fitted with helical screw tape inserts. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 37-44.	1.5	70
13	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid under turbulent flow with spiraled rod inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 53, 24-30.	1.8	65
14	New Analytical Models to Investigate Thermal Conductivity of Nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 533-538.	0.9	44
15	Passive thermal regulation of flat PV modules by coupling the mechanisms of evaporative and fin cooling. <i>Heat and Mass Transfer</i> , 2016, 52, 1381-1391.	1.2	42
16	Experimental Studies on Heat Transfer and Friction Factor Characteristics of Al ₂ O ₃ /Water Nanofluid in a Circular Pipe Under Transition Flow With Wire Coil Inserts. <i>Heat Transfer Engineering</i> , 2011, 32, 485-496.	1.2	41
17	Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under laminar flow in a helically dimpled tube. <i>Heat and Mass Transfer</i> , 2012, 48, 683-694.	1.2	40
18	Experimental investigation on a solar dryer integrated with condenser unit of split air conditioner (A/C) for enhancing drying rate. <i>Renewable Energy</i> , 2018, 122, 375-381.	4.3	31

#	ARTICLE	IF	CITATIONS
19	Development of processing windows for friction stir spot welding of aluminium Al5052 /copper C27200 dissimilar materials. Transactions of Nonferrous Metals Society of China, 2017, 27, 1273-1284.	1.7	28
20	Prediction of Solar Photovoltaic/Thermal Collector Power Output Using Fuzzy Logic. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	25
21	Experiments to Explore the Mechanisms of Heat Transfer in Nanocrystalline Alumina/Water Nanofluid under Laminar and Turbulent Flow Conditions. Experimental Heat Transfer, 2011, 24, 234-256.	2.3	24
22	Performance enhancement of a single pass solar photovoltaic thermal system using staves in the trailing portion of the air channel. Renewable Energy, 2019, 135, 248-258.	4.3	23
23	Experimental studies on the erosion rate of different heat treated carbon steel economiser tubes of power boilers by fly ash particles. International Journal of Minerals, Metallurgy and Materials, 2009, 16, 534-539.	2.4	10
24	Performance of a Downstream Finned Solar Photovoltaic Thermal Air System. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	7
25	Determination of Heat Transport Mechanism in Aqueous Nanofluids Using Regime Diagram. Chinese Physics Letters, 2009, 26, 124401.	1.3	4
26	Refuse-derived fuel for diesel engine utilizing waste transformer oil. Biofuels, 0, , 1-12.	1.4	4
27	Cooling Approaches for Solar PV Panels. Green Energy and Technology, 2022, , 213-234.	0.4	2
28	Performance of pole mounted flat photovoltaic panel under varying ambient parameters. International Journal of Ambient Energy, 2021, 42, 713-719.	1.4	1
29	Improvement in electrical energy efficiency of solar photovoltaic panel by passive refrigeration cooling system. International Journal of Energy and Water Resources, 2023, 7, 421-436.	1.3	1
30	Optimizing High Velocity Oxy Fuel Coating Process Parameters to Obtain Maximum Adhesion Strength and Micro Hardness in Cr ₃ C ₂ â€“NiCr Coated Mild Steel with Addition of NiCr Nano Particle. Journal of Computational and Theoretical Nanoscience, 2018, 15, 324-329.	0.4	0
31	Prediction of solar pond performance parameters using artificial neural network. International Journal of Computer Aided Engineering and Technology, 2019, 11, 141.	0.1	0