

Arjunan T V

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,981
citations

236925

25
h-index

254184

43
g-index

60
all docs

60
docs citations

60
times ranked

1396
citing authors

#	ARTICLE	IF	CITATIONS
1	Active solar distillationâ€™A detailed review. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 1503-1526.	16.4	279
2	Exergo-environmental analysis of an indirect forced convection solar dryer for drying bitter gourd slices. <i>Renewable Energy</i> , 2020, 146, 2210-2223.	8.9	152
3	Mathematical modeling and performance analysis of thin layer drying of bitter gourd in sensible storage based indirect solar dryer. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 36, 59-67.	5.6	144
4	Studies on micro structural characteristics, mechanical and tribological behaviours of boron carbide and cow dung ash reinforced aluminium (Al 7075) hybrid metal matrix composite. <i>Composites Part B: Engineering</i> , 2020, 183, 107668.	12.0	117
5	Analytical investigation of solar air heater with jet impingement using energy and exergy analysis. <i>Solar Energy</i> , 2018, 161, 25-37.	6.1	105
6	Thermodynamic analysis of a triple-pass solar dryer for drying potato slices. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 159-171.	3.6	85
7	Status of solar desalination in India. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 2408-2418.	16.4	84
8	Review: Dye sensitised solar cells. <i>Materials Technology</i> , 2013, 28, 9-14.	3.0	63
9	Thermohydraulic performance enhancement of a new hybrid duct solar air heater with inclined rib roughness. <i>Renewable Energy</i> , 2020, 147, 2345-2357.	8.9	63
10	The Experimental Investigation of a Solar Still Coupled with an Evacuated Tube Collector. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2013, 35, 261-270.	2.3	58
11	Experimental and theoretical investigation on the effects of lower concentration CeO ₂ /water nanofluid in flat-plate solar collector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 29-44.	3.6	52
12	Energy, economic and environmental investigation of a flat plate solar collector with CeO ₂ /water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3219-3233.	3.6	51
13	Evaluation of energy requirements for all-electric range of plug-in hybrid electric two-wheeler. <i>Energy</i> , 2011, 36, 1623-1629.	8.8	44
14	The Effect of Energy Storage Materials on the Performance of a Simple Solar Still. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 131-141.	2.3	44
15	Latest Research Development in Aluminum Matrix with Particulate Reinforcement Composites â€™ A Review. <i>Materials Today: Proceedings</i> , 2018, 5, 1657-1665.	1.8	44
16	An Experimental Study of PCM-Incorporated Thermosyphon Solar Water Heating System. <i>International Journal of Green Energy</i> , 2015, 12, 978-986.	3.8	41
17	Analytical investigation of exergetic performance on jet impingement solar air heater with multiple arc protrusion obstacles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 253-266.	3.6	41
18	Microstructural characteristics and mechanical behaviour of aluminium hybrid composites reinforced with groundnut shell ash and B4C. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	38

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19	Effect of sponge liner on the internal heat transfer coefficients in a simple solar still. <i>Desalination and Water Treatment</i> , 2011, 29, 271-284.	1.0	37
20	Experimental and thermal performance investigations on sensible storage based solar air heater. <i>Journal of Energy Storage</i> , 2020, 31, 101620.	8.1	32
21	Thermodynamic performance comparison of single slope solar stills with and without cotton cloth energy storage medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 351-360.	3.6	31
22	Energetic, exergetic and enviro-economic analysis of parallel pass jet plate solar air heater with artificial roughness. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 5-19.	3.6	30
23	Investigations on thermal properties of CeO ₂ /water nanofluids for heat transfer applications. <i>Materials Today: Proceedings</i> , 2021, 47, 6815-6820.	1.8	30
24	Thermal modeling and experimental validation of semitransparent photovoltaic- thermal hybrid collector using CuO nanofluid. <i>Journal of Cleaner Production</i> , 2021, 316, 128360.	9.3	28
25	Mechanical and tribological behaviours of aluminium hybrid composites reinforced by CDA-B ₄ C. <i>Materials Research Express</i> , 2020, 7, 016584.	1.6	25
26	Thermal performance of an evacuated tube solar collector with inserted baffles for air heating applications. <i>Solar Energy</i> , 2021, 215, 131-143.	6.1	25
27	Microstructure and Mechanical Characteristics of CDA-B ₄ C Hybrid Metal Matrix Composites. <i>Metals and Materials International</i> , 2021, 27, 885-899.	3.4	24
28	Impact of real world driving pattern and all-electric range on battery sizing and cost of plug-in hybrid electric two-wheeler. <i>Journal of Power Sources</i> , 2011, 196, 3371-3377.	7.8	21
29	Experimental study on triple pass solar air heater with thermal energy storage for drying mint leaves. <i>International Journal of Energy Technology and Policy</i> , 2018, 14, 34.	0.2	21
30	Metallurgical and mechanical investigations of Inconel 625 overlay welds produced by GMAW-hardfacing process on AISI 347 pipes. <i>Materials Research Express</i> , 2019, 6, 076534.	1.6	14
31	Drying characteristics of mint leaves (<i>Mentha arvensis</i>) dried in a solid desiccant dehumidifier system. <i>Journal of Food Science and Technology</i> , 2021, 58, 777-786.	2.8	13
32	Influence of twisted tape inserts on energy and exergy performance of an evacuated Tube-based solar air collector. <i>Solar Energy</i> , 2021, 225, 892-904.	6.1	13
33	Investigations on hardfacing and wear characteristics of nickel-based Inconel 625 overlaid welds over AISI 347 pipe. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	9
34	Fundamental Concepts of Drying. <i>Green Energy and Technology</i> , 2017, , 3-38.	0.6	9
35	Experimental studies on the performance of dehumidifier using calcium chloride as a liquid desiccant. <i>International Journal of Energy Technology and Policy</i> , 2018, 14, 49.	0.2	8
36	The Effect of Sponge Liner Colors on the Performance of Simple Solar Stills. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2012, 34, 1984-1994.	2.3	7

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37	Experimental investigation of temperature swing adsorption system for air dehumidification. Heat and Mass Transfer, 2020, 56, 2093-2105.	2.1	7
38	Influence of twisted tape fins on heat transfer and friction factor characteristics for impinging jet solar air heater. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 824-831.	2.5	7
39	Techno-Economic evaluation of an evacuated tube solar air collector with inserted baffles. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1027-1038.	2.5	7
40	Parametric study of evacuated tube collector solar air heater with inserted baffles on thermal network for low-temperature applications. Journal of Cleaner Production, 2022, 367, 132941.	9.3	7
41	The effect of sponge liner on the performance of simple solar still. International Journal of Renewable Energy Technology, 2011, 2, 169.	0.3	6
42	Experimental investigation on mechanical properties of reinforced Al6061 composites and its prediction using KNN-ALO algorithms. International Journal of Rapid Manufacturing, 2019, 8, 161.	0.5	6
43	Experimental investigation on heat transfer characteristics of phase change composite for thermal energy storage system. Materials Today: Proceedings, 2021, 42, 618-625.	1.8	6
44	Experimental thermodynamic performance analysis of semi-transparent photovoltaic-thermal hybrid collectors using nanofluids. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1639-1651.	2.5	6
45	Thermal Modeling of a Solar Still Coupled with Evacuated Tube Collector under Natural Circulation Mode – An Experimental Validation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 1441-1455.	2.3	5
46	Effect of Heat Input on Micro-Hardness and Shear Strength of Inconel 625 Hardfacing onto AISI 347 Steel pipes by GMAW Process. Journal of Physics: Conference Series, 2019, 1355, 012029.	0.4	5
47	OPTIMIZATION OF PROCESS PARAMETERS OF PRESSURE-SWING ADSORPTION CYCLE IN A SILICA GEL DESICCANT DEHUMIDIFICATION SYSTEM. Journal of Advances in Chemistry, 2017, 13, 6543-6551.	0.1	5
48	Solar photovoltaic thermal system: a comprehensive review on recent design and development, applications and future prospects in research. International Journal of Ambient Energy, 2022, 43, 7247-7271.	2.5	5
49	Study on tribological behaviour of aluminium hybrid composites strengthened with novel groundnut shell ash and boron carbide. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 350-363.	2.5	5
50	Water Desalination by Solar Energy. , 2013, , 323-351.		4
51	Experimental Study on Enhancing the Productivity of Solar Still Using Locally Available Material as a Storage Medium. Journal of the Institution of Engineers (India): Series C, 2017, 98, 191-196.	1.2	4
52	Parametric study on pressure-based packed bed adsorption system for air dehumidification. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1351-1362.	2.5	4
53	Performance Analysis of Solar Desalination Systems. Green Energy and Technology, 2019, , 75-104.	0.6	2
54	Experimental investigation of sandwich glazed solar photovoltaic module. Materials Today: Proceedings, 2020, 27, 136-139.	1.8	2

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55	Numerical simulation and experimental validation of a novel Sandwich Glazed Photovoltaic Thermal (SGPV/T) water heating system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 10581-10602.	2.3	2
56	Experimental study on triple pass solar air heater with thermal energy storage for drying mint leaves. International Journal of Energy Technology and Policy, 2018, 14, 34.	0.2	2
57	Experimental studies on the performance of dehumidifier using calcium chloride as a liquid desiccant. International Journal of Energy Technology and Policy, 2018, 14, 49.	0.2	1
58	Investigation of mechanical and wear properties of Al ₆₀₆₁ /Si ₃ N ₄ /MgO hybrid composite fabricated by stir casting method. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 702-709.	2.5	1
59	The Effect of Cotton Cloths on the Performance of the Solar still. Applied Mechanics and Materials, 0, 787, 182-186.	0.2	0
60	Experimental investigation on mechanical properties of reinforced Al ₆₀₆₁ composites and its prediction using KNN-ALO algorithms. International Journal of Rapid Manufacturing, 2019, 8, 161.	0.5	0