

# 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	Investigation of mechanical and wear properties of Al6061/Si <sub>3</sub> N <sub>4</sub> /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
2	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
3	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
4	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
5	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
6	Drying characteristics of mint leaves ( <i>Mentha arvensis</i> ) dried in a solid desiccant dehumidifier system. Journal of Food Science and Technology, 2021, 58, 777-786.	2.8	13
7	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
8	Microstructure and Mechanical Characteristics of CDA <sup>®</sup> B4C Hybrid Metal Matrix Composites. Metals and Materials International, 2021, 27, 885-899.	3.4	24
9	Thermal performance of an evacuated tube solar collector with inserted baffles for air heating applications. Solar Energy, 2021, 215, 131-143.	6.1	25
10	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
11	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
12	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
13	Investigations on thermal properties of CeO <sub>2</sub> /water nanofluids for heat transfer applications. Materials Today: Proceedings, 2021, 47, 6815-6820.	1.8	30
14	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
15	Influence of twisted tape inserts on energy and exergy performance of an evacuated Tube-based solar air collector. Solar Energy, 2021, 225, 892-904.	6.1	13
16	Thermal modeling and experimental validation of semitransparent photovoltaic-thermal hybrid collector using CuO nanofluid. Journal of Cleaner Production, 2021, 316, 128360.	9.3	28
17	Thermohydraulic performance enhancement of a new hybrid duct solar air heater with inclined rib roughness. Renewable Energy, 2020, 147, 2345-2357.	8.9	63
18	Experimental investigation of sandwich glazed solar photovoltaic module. Materials Today: Proceedings, 2020, 27, 136-139.	1.8	2

#	ARTICLE	IF	CITATIONS
19	Energy, economic and environmental investigation of a flat plate solar collector with CeO <sub>2</sub> /water nanofluid. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3219-3233.	3.6	51
20	Exergo-environmental analysis of an indirect forced convection solar dryer for drying bitter gourd slices. Renewable Energy, 2020, 146, 2210-2223.	8.9	152
21	Investigations on hardfacing and wear characteristics of nickel-based Inconel 625 overlaid welds over AISI 347 pipe. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	9
22	Studies on micro structural characteristics, mechanical and tribological behaviours of boron carbide and cow dung ash reinforced aluminium (Al 7075) hybrid metal matrix composite. Composites Part B: Engineering, 2020, 183, 107668.	12.0	117
23	Mechanical and tribological behaviours of aluminium hybrid composites reinforced by CDA-B <sub>4</sub> C. Materials Research Express, 2020, 7, 016584.	1.6	25
24	Experimental investigation of temperature swing adsorption system for air dehumidification. Heat and Mass Transfer, 2020, 56, 2093-2105.	2.1	7
25	Experimental and thermal performance investigations on sensible storage based solar air heater. Journal of Energy Storage, 2020, 31, 101620.	8.1	32
26	Microstructural characteristics and mechanical behaviour of aluminium hybrid composites reinforced with groundnut shell ash and B <sub>4</sub> C. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	38
27	Performance Analysis of Solar Desalination Systems. Green Energy and Technology, 2019, , 75-104.	0.6	2
28	Metallurgical and mechanical investigations of Inconel 625 overlay welds produced by GMAW-hardfacing process on AISI 347 pipes. Materials Research Express, 2019, 6, 076534.	1.6	14
29	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
30	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
31	Energetic, exergetic and enviro-economic analysis of parallel pass jet plate solar air heater with artificial roughness. Journal of Thermal Analysis and Calorimetry, 2019, 136, 5-19.	3.6	30
32	Thermodynamic performance comparison of single slope solar stills with and without cotton cloth energy storage medium. Journal of Thermal Analysis and Calorimetry, 2019, 137, 351-360.	3.6	31
33	Analytical investigation of exergetic performance on jet impingement solar air heater with multiple arc protrusion obstacles. Journal of Thermal Analysis and Calorimetry, 2019, 137, 253-266.	3.6	41
34	Thermodynamic analysis of a triple-pass solar dryer for drying potato slices. Journal of Thermal Analysis and Calorimetry, 2019, 136, 159-171.	3.6	85
35	Experimental and theoretical investigation on the effects of lower concentration CeO <sub>2</sub> /water nanofluid in flat-plate solar collector. Journal of Thermal Analysis and Calorimetry, 2019, 135, 29-44.	3.6	52
36	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	0

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37	Latest Research Development in Aluminum Matrix with Particulate Reinforcement Composites " A Review. Materials Today: Proceedings, 2018, 5, 1657-1665.	1.8	44
38	Analytical investigation of solar air heater with jet impingement using energy and exergy analysis. Solar Energy, 2018, 161, 25-37.	6.1	105
39	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	21
40	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	8
41	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
42	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
43	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
44	Fundamental Concepts of Drying. Green Energy and Technology, 2017, , 3-38.	0.6	9
45	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
46	Mathematical modeling and performance analysis of thin layer drying of bitter melon in sensible storage based indirect solar dryer. Innovative Food Science and Emerging Technologies, 2016, 36, 59-67.	5.6	144
47	An Experimental Study of PCM-Incorporated Thermosyphon Solar Water Heating System. International Journal of Green Energy, 2015, 12, 978-986.	3.8	41
48	The Effect of Energy Storage Materials on the Performance of a Simple Solar Still. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2014, 36, 131-141.	2.3	44
49	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
50	Water Desalination by Solar Energy. , 2013, , 323-351.		4
51	Review: Dye sensitised solar cells. Materials Technology, 2013, 28, 9-14.	3.0	63
52	The Experimental Investigation of a Solar Still Coupled with an Evacuated Tube Collector. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 261-270.	2.3	58
53	The Effect of Sponge Liner Colors on the Performance of Simple Solar Stills. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2012, 34, 1984-1994.	2.3	7
54	Effect of sponge liner on the internal heat transfer coefficients in a simple solar still. Desalination and Water Treatment, 2011, 29, 271-284.	1.0	37

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55	Evaluation of energy requirements for all-electric range of plug-in hybrid electric two-wheeler. Energy, 2011, 36, 1623-1629.	8.8	44
56	Impact of real world driving pattern and all-electric range on battery sizing and cost of plug-in hybrid electric two-wheeler. Journal of Power Sources, 2011, 196, 3371-3377.	7.8	21
57	The effect of sponge liner on the performance of simple solar still. International Journal of Renewable Energy Technology, 2011, 2, 169.	0.3	6
58	Active solar distillationâ€”A detailed review. Renewable and Sustainable Energy Reviews, 2010, 14, 1503-1526.	16.4	279
59	Status of solar desalination in India. Renewable and Sustainable Energy Reviews, 2009, 13, 2408-2418.	16.4	84
60	The Effect of Cotton Cloths on the Performance of the Solar still. Applied Mechanics and Materials, 0, 787, 182-186.	0.2	0