

Avadhesh Yadav

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11078454/publications.pdf>

Version: 2024-02-01

75
papers

1,471
citations

331670

21
h-index

361022

35
g-index

75
all docs

75
docs citations

75
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	Water desalination system using solar heat: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 1308-1330.	16.4	300
2	Experimental investigation of solar powered water production from atmospheric air by using composite desiccant material CaCl_2 /saw wood. <i>Desalination</i> , 2015, 367, 216-222.	8.2	74
3	Water generation from atmospheric air by using composite desiccant material through fixed focus concentrating solar thermal power. <i>Solar Energy</i> , 2018, 169, 302-315.	6.1	73
4	Experimental analysis of thermal performance of evacuated tube solar air collector with phase change material for sunshine and off-sunshine hours. <i>International Journal of Ambient Energy</i> , 2017, 38, 130-145.	2.5	62
5	Experimental investigation of solar driven desiccant air conditioning system based on silica gel coated heat exchanger. <i>International Journal of Refrigeration</i> , 2016, 69, 51-63.	3.4	54
6	Experimental Comparison of Various Solid Desiccants for Regeneration by Evacuated Solar Air Collector and Air Dehumidification. <i>Drying Technology</i> , 2012, 30, 516-525.	3.1	42
7	An experimental study of the effect of exfoliated graphite solar coating with a sensible heat storage and Scheffler dish for desalination. <i>Applied Thermal Engineering</i> , 2017, 123, 111-122.	6.0	37
8	Thermal performance of one-ended evacuated tube solar air collector at different flow rates: experimental investigation. <i>International Journal of Ambient Energy</i> , 2012, 33, 35-50.	2.5	35
9	Experimental study of exfoliated graphite solar thermal coating on a receiver with a Scheffler dish and latent heat storage for desalination. <i>Solar Energy</i> , 2017, 151, 129-145.	6.1	33
10	Experimental investigation of a solar cooker based on parabolic dish collector with phase change thermal storage unit in Indian climatic conditions. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	32
11	Experimental investigation of design parameters of solar glass desiccant box type system for water production from atmospheric air. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	2.0	31
12	Experimental comparison of open sun drying and solar drying based on evacuated tube collector. <i>International Journal of Sustainable Energy</i> , 2019, 38, 348-367.	2.4	31
13	Effect of shading and evaporative cooling of glass cover on the performance of evacuated tube-augmented solar still. <i>Environment, Development and Sustainability</i> , 2020, 22, 4125-4143.	5.0	28
14	Experimental investigation of the solar cooker during sunshine and off-sunshine hours using the thermal energy storage unit based on a parabolic trough collector. <i>International Journal of Ambient Energy</i> , 2016, 37, 597-608.	2.5	27
15	Mathematical investigation of purge sector angle for clockwise and anticlockwise rotation of desiccant wheel. <i>Applied Thermal Engineering</i> , 2016, 93, 839-848.	6.0	27
16	Experimental investigation of a desiccant dehumidifier based on evacuated tube solar collector with a PCM storage unit. <i>Drying Technology</i> , 2017, 35, 417-432.	3.1	27
17	Thermal analysis on charging and discharging behaviour of a phase change material-based evacuated tube solar air collector. <i>Indoor and Built Environment</i> , 2018, 27, 156-172.	2.8	27
18	Thermal performance evaluation of solar cooker with latent and sensible heat storage unit for evening cooking. <i>Australian Journal of Mechanical Engineering</i> , 2017, 15, 93-102.	2.1	25

#	ARTICLE	IF	CITATIONS
19	The Regeneration of Various Solid Desiccants by Using a Parabolic Dish Collector and Adsorption Rate: An Experimental Investigation. <i>International Journal of Green Energy</i> , 2014, 11, 936-953.	3.8	24
20	Composite desiccant material $\text{CaCl}_2/\text{Vermiculite}/\text{Saw wood}$, a new material for fresh water production from atmospheric air. <i>Applied Water Science</i> , 2017, 7, 2103-2111.	5.6	24
21	Experimental comparison of different heat transfer fluid for thermal performance of a solar cooker based on evacuated tube collector. <i>Environment, Development and Sustainability</i> , 2015, 17, 497-511.	5.0	23
22	The effect of tilt angle on the performance of evacuated tube solar air collector: experimental analysis. <i>International Journal of Engineering, Science and Technology</i> , 2018, 5, 100-110.	0.6	23
23	Factors affecting the performance of a solar still and productivity enhancement methods: A review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 54383-54402.	5.3	22
24	Comparative study of solar-powered water production from atmospheric air using different desiccant materials. <i>International Journal of Sustainable Engineering</i> , 2016, 9, 390-400.	3.5	21
25	Extraction of water particles from atmospheric air through a Scheffler reflector using different solid desiccants. <i>International Journal of Ambient Energy</i> , 2020, 41, 1357-1369.	2.5	18
26	Comparative performance of desiccant wheel with effective and ordinary regeneration sector using mathematical model. <i>Heat and Mass Transfer</i> , 2014, 50, 1465-1478.	2.1	17
27	Solar-driven technology for freshwater production from atmospheric air by using the composite desiccant material $\text{CaCl}_2/\text{floral foam}$. <i>Environment, Development and Sustainability</i> , 2016, 18, 1151-1165.	5.0	17
28	Experimental comparative study on a solar still combined with evacuated tubes and a heat exchanger at different water depths. <i>International Journal of Sustainable Engineering</i> , 2020, 13, 218-229.	3.5	17
29	Productivity augmentation of single-slope solar still using evacuated tubes, heat exchanger, internal reflectors and external condenser. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-21.	2.3	16
30	Thermal performance analysis of evacuated tubes solar air collector in Indian climate conditions. <i>International Journal of Ambient Energy</i> , 2016, 37, 162-171.	2.5	15
31	Experimental investigation of solar cooking system based on evacuated tube solar collector for the preparation of concentrated sugarcane juice used in jaggery making. <i>Environment, Development and Sustainability</i> , 2021, 23, 647-663.	5.0	14
32	Experimental investigation of solar-powered desiccant cooling system by using composite desiccant $\text{CaCl}_2/\text{jute}$. <i>Environment, Development and Sustainability</i> , 2017, 19, 1279-1292.	5.0	13
33	Water generation from atmospheric air by using different composite desiccant materials. <i>International Journal of Ambient Energy</i> , 2019, 40, 343-349.	2.5	13
34	Twin vessel solar cook stove for the simultaneous cooking of two different cooking articles. <i>Solar Energy</i> , 2020, 208, 688-696.	6.1	13
35	Annual Performance Evaluation of Evacuated Tube Solar Air Collector With Phase Change Material. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2020, 142, .	1.8	13
36	Economic analysis of water production from atmospheric air using Scheffler reflector. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	12

#	ARTICLE	IF	CITATIONS
37	ANALYSIS OF DESICCANT WHEEL WITH PURGE SECTOR FOR IMPROVING THE PERFORMANCE USING A MATHEMATICAL MODEL. International Journal of Air-Conditioning and Refrigeration, 2014, 22, 1450004.	0.7	11
38	The regeneration of various saturated solid and novel composite desiccant using Scheffler solar concentrator: an experimental investigation. International Journal of Ambient Energy, 2020, 41, 224-236.	2.5	11
39	Thermal performance of the steam boiler based on Scheffler solar concentrator for domestic application: Experimental investigation. Australian Journal of Mechanical Engineering, 2021, 19, 521-531.	2.1	10
40	The performance of solar powered desiccant dehumidifier in India: an experimental investigation. International Journal of Sustainable Engineering, 2013, 6, 239-257.	3.5	9
41	Comparison of thermal performances of flat plate and evacuated tube solar air collector at different flow rates: experimental analysis. International Journal of Renewable Energy Technology, 2013, 4, 107.	0.3	9
42	Experimental investigation of solar heating and humidification system based on desiccant bed heat exchanger. International Journal of Ambient Energy, 2017, 38, 826-833.	2.5	9
43	Effect of different arrangements of sector on the performance of desiccant wheel. Heat and Mass Transfer, 2018, 54, 7-23.	2.1	8
44	Effect of Pressure Drop and Air Mass Flow Rate on the Performance of Concentric Coaxial Glass Tube Solar Air Collector: A Theoretical Approach. Arabian Journal for Science and Engineering, 2018, 43, 4549-4559.	3.0	8
45	Experimental investigation of single slope solar still using different wick materials: a comparative study. Journal of Physics: Conference Series, 2019, 1276, 012042.	0.4	8
46	Analysis of various designs of a desiccant wheel for improving the performance using a mathematical model. Journal of Renewable and Sustainable Energy, 2013, 5, 023110.	2.0	7
47	Energy and exergy analysis of a PCM-based solar powered winter air conditioning using desiccant wheel during nocturnal. International Journal of Sustainable Engineering, 2018, 11, 54-64.	3.5	7
48	Experimental investigation of parabolic dish concentrator with various sizes of receiver. Materials Today: Proceedings, 2021, 44, 4966-4971.	1.8	7
49	Comparative Performance of Different Sector Arrangement in a Desiccant Wheel Using a Mathematical Model. Heat Transfer - Asian Research, 2015, 44, 133-153.	2.8	6
50	Experimental investigation of an air heating system using different types of heat exchangers incorporated with an evacuated tube solar collector. Environmental Progress and Sustainable Energy, 2017, 36, 232-247.	2.3	6
51	Experimental analysis of thermal performance of evacuated tube and flat-plate solar air collectors at different air flow rates. International Journal of Sustainable Engineering, 2015, 8, 280-293.	3.5	5
52	Experimental investigation of a solar cooker based on evacuated tube collector with phase change thermal storage unit in Indian climatic conditions. International Journal of Renewable Energy Technology, 2018, 9, 310.	0.3	5
53	Comparative analysis of different design of rotary dehumidifier. Heat Transfer - Asian Research, 2019, 48, 2193-2215.	2.8	5
54	Experimental investigation of a solar cooking system inhibiting closed airtight cooking pot and evacuated tube collector for the preparation of Indian cuisine items. Environment, Development and Sustainability, 2021, 23, 3164-3186.	5.0	5

#	ARTICLE	IF	CITATIONS
55	A Scheffler solar concentrator heat transfer model used in forced-circulation ice melting system at high-altitude regions. <i>Environment, Development and Sustainability</i> , 2021, 23, 1623-1645.	5.0	5
56	Experimental investigation of a solar energy based cooking system for the steam method of cooking using evacuated tube collector. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-17.	2.3	5
57	Parametric study of a concentric coaxial glass tube solar air collector: a theoretical approach. <i>Heat and Mass Transfer</i> , 2018, 54, 1613-1625.	2.1	4
58	Performance analysis and comparison of glazed and unglazed solar air collector. <i>Environment, Development and Sustainability</i> , 2020, 22, 863-881.	5.0	4
59	Economic analysis of solar thermal system for melting of ice at high altitude regions using Scheffler solar concentrator. <i>International Journal of Sustainable Engineering</i> , 2020, , 1-10.	3.5	4
60	An experimental investigation on solar powered solid desiccant air conditioning (SPSDAC) based on regenerative evaporative cooling system with PCM unit. <i>International Journal of Ambient Energy</i> , 2021, 42, 558-569.	2.5	4
61	Development and thermal performance evaluation of solar parabolic dish based on fiber reinforced plastic. <i>Heat Transfer</i> , 2022, 51, 6222-6248.	3.0	4
62	An experimental investigation of solar-powered desiccant wheel with different rotational speeds. <i>International Journal of Ambient Energy</i> , 2013, 34, 3-26.	2.5	3
63	Effect of desiccant isotherm on the design parameters of desiccant wheel. <i>Heat and Mass Transfer</i> , 2014, 50, 1-12.	2.1	3
64	Parametric analysis of desiccant wheel for air conditioning application. <i>Heat Transfer - Asian Research</i> , 2018, 47, 771-793.	2.8	3
65	Second law analysis of the 160Wp standalone solar photovoltaic system. <i>International Journal of Sustainable Energy</i> , 2019, 38, 904-917.	2.4	3
66	Mathematical modelling of solar drying of a novel composite desiccant. <i>International Journal of Ambient Energy</i> , 2019, 40, 28-34.	2.5	3
67	Experimental investigation of ice chamber for melting of ice based on Scheffler solar concentrator for high altitude regions. <i>Heat Transfer</i> , 2020, 49, 2472-2493.	3.0	3
68	Fabrication of portable solar thermal bank for indoor cooking. <i>Heat Transfer</i> , 2022, 51, 3815-3829.	3.0	2
69	Numerical and experimental investigation of operating parameters of solar powered desiccant wheel in India. <i>Heat Transfer - Asian Research</i> , 2013, 42, 1-30.	2.8	1
70	Effect of Desiccant Isotherm on the Performance of a Desiccant Wheel at Different Operating Conditions. <i>Heat Transfer - Asian Research</i> , 2017, 46, 623-646.	2.8	1
71	Thermal performance of cubical receiver with trapezoidal ice-pot for melting of ice at high altitude regions based on Scheffler solar concentrator. <i>International Journal of Ambient Energy</i> , 2020, , 1-13.	2.5	1
72	Experimentally investigation of extraction of water vapours with Scheffler reflector through nobel composite desiccant material. <i>International Journal of Ambient Energy</i> , 0, , 1-12.	2.5	1

#	ARTICLE	IF	CITATIONS
73	To optimize the flow distribution in concentric glass tube solar air collector with various configuration of manifolds. Environment, Development and Sustainability, 0, , 1.	5.0	1
74	Experimental Investigation of Solar Steam Generator Based on Evacuated Tube for Heating and Humidification. Springer Proceedings in Energy, 2018, , 79-87.	0.3	0
75	Experimental Study of a Solar Oven based on Evacuated Tube Collector in Indian Climatic Conditions. Journal of Physics: Conference Series, 2019, 1240, 012124.	0.4	0