

# Avadhesh Yadav

## List of Publications by Year in descending order

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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	Fabrication of portable solar thermal bank for indoor cooking. Heat Transfer, 2022, 51, 3815-3829.	3.0	2
2	Development and thermal performance evaluation of solar parabolic dish based on fiber-reinforced plastic. Heat Transfer, 2022, 51, 6222-6248.	3.0	4
3	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
4	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
5	Experimental investigation of solar cooking system based on evacuated tube solar collector for the preparation of concentrated sugarcane juice used in jaggery making. Environment, Development and Sustainability, 2021, 23, 647-663.	5.0	14
6	A Scheffler solar concentrator heat transfer model used in forced-circulation ice melting system at high-altitude regions. Environment, Development and Sustainability, 2021, 23, 1623-1645.	5.0	5
7	An experimental investigation on solar powered solid desiccant air conditioning (SPSDAC) based on regenerative evaporative cooling system with PCM unit. International Journal of Ambient Energy, 2021, 42, 558-569.	2.5	4
8	Experimental investigation of parabolic dish concentrator with various sizes of receiver. Materials Today: Proceedings, 2021, 44, 4966-4971.	1.8	7
9	Factors affecting the performance of a solar still and productivity enhancement methods: A review. Environmental Science and Pollution Research, 2021, 28, 54383-54402.	5.3	22
10	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
11	Extraction of water particles from atmospheric air through a Scheffler reflector using different solid desiccants. International Journal of Ambient Energy, 2020, 41, 1357-1369.	2.5	18
12	Effect of shading and evaporative cooling of glass cover on the performance of evacuated tube-augmented solar still. Environment, Development and Sustainability, 2020, 22, 4125-4143.	5.0	28
13	Performance analysis and comparison of glazed and unglazed solar air collector. Environment, Development and Sustainability, 2020, 22, 863-881.	5.0	4
14	Experimental comparative study on a solar still combined with evacuated tubes and a heat exchanger at different water depths. International Journal of Sustainable Engineering, 2020, 13, 218-229.	3.5	17
15	Twin vessel solar cook stove for the simultaneous cooking of two different cooking articles. Solar Energy, 2020, 208, 688-696.	6.1	13
16	Experimental investigation of ice-chamber for melting of ice based on Scheffler solar concentrator for high altitude regions. Heat Transfer, 2020, 49, 2472-2493.	3.0	3
17	Thermal performance of cubical receiver with trapezoidal ice-pot for melting of ice at high altitude regions based on Scheffler solar concentrator. International Journal of Ambient Energy, 2020, , 1-13.	2.5	1
18	Economic analysis of solar thermal system for melting of ice at high altitude regions using Scheffler solar concentrator. International Journal of Sustainable Engineering, 2020, , 1-10.	3.5	4

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19	Annual Performance Evaluation of Evacuated Tube Solar Air Collector With Phase Change Material. Journal of Solar Energy Engineering, Transactions of the ASME, 2020, 142, .	1.8	13
20	Experimental comparison of open sun drying and solar drying based on evacuated tube collector. International Journal of Sustainable Energy, 2019, 38, 348-367.	2.4	31
21	Comparative analysis of different design of rotary dehumidifier. Heat Transfer - Asian Research, 2019, 48, 2193-2215.	2.8	5
22	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
23	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
24	Second law analysis of the 160Wp standalone solar photovoltaic system. International Journal of Sustainable Energy, 2019, 38, 904-917.	2.4	3
25	Economic analysis of water production from atmospheric air using Scheffler reflector. Applied Water Science, 2019, 9, 1.	5.6	12
26	Water generation from atmospheric air by using different composite desiccant materials. International Journal of Ambient Energy, 2019, 40, 343-349.	2.5	13
27	Mathematical modelling of solar drying of a novel composite desiccant. International Journal of Ambient Energy, 2019, 40, 28-34.	2.5	3
28	Parametric study of a concentric coaxial glass tube solar air collector: a theoretical approach. Heat and Mass Transfer, 2018, 54, 1613-1625.	2.1	4
29	Thermal analysis on charging and discharging behaviour of a phase change material-based evacuated tube solar air collector. Indoor and Built Environment, 2018, 27, 156-172.	2.8	27
30	Effect of different arrangements of sector on the performance of desiccant wheel. Heat and Mass Transfer, 2018, 54, 7-23.	2.1	8
31	Experimental Investigation of Solar Steam Generator Based on Evacuated Tube for Heating and Humidification. Springer Proceedings in Energy, 2018, , 79-87.	0.3	0
32	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
33	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
34	Parametric analysis of desiccant wheel for air conditioning application. Heat Transfer - Asian Research, 2018, 47, 771-793.	2.8	3
35	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
36	Water generation from atmospheric air by using composite desiccant material through fixed focus concentrating solar thermal power. Solar Energy, 2018, 169, 302-315.	6.1	73

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	Experimental investigation of an air heating system using different types of heat exchangers incorporated with an evacuated tube solar collector. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 232-247.	2.3	6
46	Water desalination system using solar heat: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 1308-1330.	16.4	300
47	Experimental investigation of solar heating and humidification system based on desiccant bed heat exchanger. <i>International Journal of Ambient Energy</i> , 2017, 38, 826-833.	2.5	9
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Experimental investigation of solar powered water production from atmospheric air by using composite desiccant material $\text{CaCl}_2$ /saw wood. Desalination, 2015, 367, 216-222.	8.2	74
58	Experimental investigation of design parameters of solar glass desiccant box type system for water production from atmospheric air. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	31
59	Experimental comparison of different heat transfer fluid for thermal performance of a solar cooker based on evacuated tube collector. Environment, Development and Sustainability, 2015, 17, 497-511.	5.0	23
60	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
61	The Regeneration of Various Solid Desiccants by Using a Parabolic Dish Collector and Adsorption Rate: An Experimental Investigation. International Journal of Green Energy, 2014, 11, 936-953.	3.8	24
62	Effect of desiccant isotherm on the design parameters of desiccant wheel. Heat and Mass Transfer, 2014, 50, 1-12.	2.1	3
63	Comparative performance of desiccant wheel with effective and ordinary regeneration sector using mathematical model. Heat and Mass Transfer, 2014, 50, 1465-1478.	2.1	17
64	An experimental investigation of solar-powered desiccant wheel with different rotational speeds. International Journal of Ambient Energy, 2013, 34, 3-26.	2.5	3
65	The performance of solar powered desiccant dehumidifier in India: an experimental investigation. International Journal of Sustainable Engineering, 2013, 6, 239-257.	3.5	9
66	Numerical and experimental investigation of operating parameters of solar-powered desiccant wheel in India. Heat Transfer - Asian Research, 2013, 42, 1-30.	2.8	1
67	Experimental investigation of a solar cooker based on parabolic dish collector with phase change thermal storage unit in Indian climatic conditions. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	32
68	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
69	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
70	Thermal performance of one-ended evacuated tube solar air collector at different flow rates: experimental investigation. International Journal of Ambient Energy, 2012, 33, 35-50.	2.5	35
71	Experimental Comparison of Various Solid Desiccants for Regeneration by Evacuated Solar Air Collector and Air Dehumidification. Drying Technology, 2012, 30, 516-525.	3.1	42
72	Productivity augmentation of single-slope solar still using evacuated tubes, heat exchanger, internal reflectors and external condenser. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	2.3	16

#	ARTICLE	IF	CITATIONS
73	Experimental investigation of a solar energy based cooking system for the steam method of cooking using evacuated tube collector. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	5
74	Experimentally investigation of extraction of water vapours with Scheffler reflector through nobel composite desiccant material. International Journal of Ambient Energy, 0, , 1-12.	2.5	1
75	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