

# Apurba Layek, Fie

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,128  
citations

567281

15  
h-index

454955

30  
g-index

38  
all docs

38  
docs citations

38  
times ranked

588  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the performance analysis of an improved solar air heater with Winglet shaped ribs. <i>Experimental Heat Transfer</i> , 2022, 35, 239-257.	3.2	24
2	Heat Transfer Measurement in a Rectangular Channel of Solar Air Heater With Winglet-Type Ribs Using Liquid Crystal Thermography. <i>Journal of Thermal Science and Engineering Applications</i> , 2022, 14, .	1.5	10
3	Parametric analysis of artificial rib roughness for the enhancement of thermohydraulic performance of solar air heater: A review. <i>Materials Today: Proceedings</i> , 2022, 57, 1127-1135.	1.8	13
4	Thermo-hydraulic performance of solar air heater having winglet type roughness element. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10481-10495.	3.6	3
5	Application of liquid crystal thermography for temperature measurement of the absorber plate of solar air heater. <i>Materials Today: Proceedings</i> , 2022, 59, 605-611.	1.8	5
6	Performance Evaluation of a Solar Air Heater with Transverse Ribs on the Absorber Surface Using CFD Technique. <i>Advances in Sustainability Science and Technology</i> , 2021, , 47-56.	0.6	0
7	Energetic and exergetic based performance evaluation of solar air heater having winglet type roughness on absorber surface. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111147.	6.2	10
8	Enhancement of mechanical properties of carbon and flax fibre hybrid composites for engineering applications. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	4
9	Performance characteristics of CI engine using blends of waste cooking oil methyl ester, ethanol and diesel. <i>International Journal of Ambient Energy</i> , 2020, 41, 570-581.	2.5	4
10	Performance enhancement of single slope solar still integrated with flat plate collector for different basin water depth. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	11
11	Effect of relative roughness pitch on the performance evaluation of a solar air heater roughened with chamfered rib and groove roughness on the surface plate using CFD technique. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
12	Nusselt number and friction factor correlation of solar air heater having winglet type vortex generator over absorber plate. <i>Solar Energy</i> , 2020, 205, 334-348.	6.1	35
13	Nusselt number and friction characteristics of a solar air heater that has a winglet type vortex generator in the absorber surface. <i>Experimental Thermal and Fluid Science</i> , 2020, 119, 110204.	2.7	30
14	Heat Transfer Analysis of a Solar Air Heater Roughened with Chamfered Rib and Groove Roughness on the Absorber Plate Using CFD Approach. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 1373-1384.	0.4	2
15	Nusselt number and friction factor correlation of solar air heater having twisted-rib roughness on absorber plate. <i>Renewable Energy</i> , 2019, 130, 687-699.	8.9	78
16	Nusselt number and fluid flow analysis of solar air heater having transverse circular rib roughness on absorber plate using LCT and computational technique. <i>Thermal Science and Engineering Progress</i> , 2019, 14, 100398.	2.7	23
17	Performance analyses of mixed mode forced convection solar dryer for drying of stevia leaves. <i>Solar Energy</i> , 2019, 188, 507-518.	6.1	132
18	Energetic and exergetic performance evaluation of solar air heater with twisted rib roughness on absorber plate. <i>Journal of Cleaner Production</i> , 2019, 232, 617-628.	9.3	61

#	ARTICLE	IF	CITATIONS
19	Performance comparison of mixed mode and indirect mode parallel flow forced convection solar driers for drying <i>Curcuma zedoaria</i> . Journal of Food Process Engineering, 2019, 42, e13045.	2.9	30
20	Mapping of Flow Visualization and Heat Transfer Analysis Over Roughened Plate Inside Rectangular Duct. Advances in Intelligent Systems and Computing, 2019, , 599-610.	0.6	0
21	Thermo-hydraulic performance of roughened solar air heater by design of experiment and meta-heuristic approach. Thermal Science and Engineering Progress, 2019, 10, 92-102.	2.7	16
22	Exergetic analysis of basin type solar still. Engineering Science and Technology, an International Journal, 2018, 21, 99-106.	3.2	14
23	Drying kinetics and quality analysis of black turmeric ( <i>Curcuma caesia</i> ) drying in a mixed mode forced convection solar dryer integrated with thermal energy storage. Renewable Energy, 2018, 120, 23-34.	8.9	165
24	Evaluation of Convective Heat Transfer Coefficient of Herbs Dried in a Mixed Mode Solar Dryer. , 2018, , .		1
25	Nusselt number-friction characteristic for a twisted rib roughened rectangular duct using liquid crystal thermography. Experimental Thermal and Fluid Science, 2018, 97, 205-217.	2.7	17
26	Thermo-hydraulic performance of solar air heater having twisted rib over the absorber plate. International Journal of Thermal Sciences, 2018, 133, 181-195.	4.9	69
27	Heat transfer measurement in rectangular channel with detach ribs by liquid crystal thermography. International Journal of Heat and Technology, 2018, 36, 1502-1509.	0.6	4
28	Exergetic efficiency of basin type solar still. AIP Conference Proceedings, 2017, , .	0.4	1
29	Performance Analysis of Trapezoidal Corrugated Solar Air Heater with Sensible Heat Storage Material. Energy Procedia, 2017, 109, 463-470.	1.8	54
30	Effect of depth and salinity of basin water on performance of solar still. , 2017, , .		2
31	Exploration of waste cooking oil methyl esters (WCOME) as fuel in compression ignition engines: A critical review. Engineering Science and Technology, an International Journal, 2016, 19, 1018-1026.	3.2	29
32	Performance Evaluation of Solar Air Heater Having Chamfered Rib Groove Roughness on Absorber Plate. , 2010, , .		2
33	Effect of chamfering on heat transfer and friction characteristics of solar air heater having absorber plate roughened with compound turbulators. Renewable Energy, 2009, 34, 1292-1298.	8.9	61
34	Second law optimization of a solar air heater having chamfered rib "groove roughness on absorber plate. Renewable Energy, 2007, 32, 1967-1980.	8.9	96
35	Heat transfer and friction characteristics for artificially roughened ducts with compound turbulators. International Journal of Heat and Mass Transfer, 2007, 50, 4845-4854.	4.8	114
36	Performance of a Direct Injection Diesel Engine Using Jatropha Diesel Blends as Fuel. Applied Mechanics and Materials, 0, 592-594, 1723-1727.	0.2	1