Apurba Layek, Fie

List of Publications by Year
in descending order

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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	Drying kinetics and quality analysis of black turmeric (Curcuma caesia) drying in a mixed mode forced convection solar dryer integrated with thermal energy storage. Renewable Energy, 2018, 120, 23-34.	8.9	165
2	Performance analyses of mixed mode forced convection solar dryer for drying of stevia leaves. Solar Energy, 2019, 188, 507-518.	6.1	132
3	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
4	Second law optimization of a solar air heater having chamfered ribâ€“groove roughness on absorber plate. Renewable Energy, 2007, 32, 1967-1980.	8.9	96
5	Nusselt number and friction factor correlation of solar air heater having twisted-rib roughness on absorber plate. Renewable Energy, 2019, 130, 687-699.	8.9	78
6	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
7	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
8	Energetic and exergetic performance evaluation of solar air heater with twisted rib roughness on absorber plate. Journal of Cleaner Production, 2019, 232, 617-628.	9.3	61
9	Performance Analysis of Trapezoidal Corrugated Solar Air Heater with Sensible Heat Storage Material. Energy Procedia, 2017, 109, 463-470.	1.8	54
10	Nusselt number and friction factor correlation of solar air heater having winglet type vortex generator over absorber plate. Solar Energy, 2020, 205, 334-348.	6.1	35
11	Performance comparison of mixed mode and indirect mode parallel flow forced convection solar driers for drying Curcuma zedoaria. Journal of Food Process Engineering, 2019, 42, e13045.	2.9	30
12	Nusselt number and friction characteristics of a solar air heater that has a winglet type vortex generator in the absorber surface. Experimental Thermal and Fluid Science, 2020, 119, 110204.	2.7	30
13	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
14	Evaluation of the performance analysis of an improved solar air heater with Winglet shaped ribs. Experimental Heat Transfer, 2022, 35, 239-257.	3.2	24
15	Nusselt number and fluid flow analysis of solar air heater having transverse circular rib roughness on absorber plate using LCT and computational technique. Thermal Science and Engineering Progress, 2019, 14, 100398.	2.7	23
16	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
17	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
18	Exergetic analysis of basin type solar still. Engineering Science and Technology, an International Journal, 2018, 21, 99-106.	3.2	14

#	Article	IF	Citations
19	Parametric analysis of artificial rib roughness for the enhancement of thermohydraulic performance of solar air heater: A review. Materials Today: Proceedings, 2022, 57, 1127-1135.	1.8	13
20	Performance enhancement of single slope solar still integrated with flat plate collector for different basin water depth. AIP Conference Proceedings, 2020, , .	0.4	11
21	Heat Transfer Measurement in a Rectangular Channel of Solar Air Heater With Winglet-Type Ribs Using Liquid Crystal Thermography. Journal of Thermal Science and Engineering Applications, 2022, 14, .	1.5	10
22	Energetic and exergetic based performance evaluation of solar air heater having winglet type roughneÑ•Ñ• on absorber surface. Solar Energy Materials and Solar Cells, 2021, 230, 111147.	6.2	10
23	Application of liquid crystal thermography for temperature measurement of the absorber plate of solar air heater. Materials Today: Proceedings, 2022, 59, 605-611.	1.8	5
24	Performance characteristics of CI engine using blends of waste cooking oil methyl ester, ethanol and diesel. International Journal of Ambient Energy, 2020, 41, 570-581.	2.5	4
25	Enhancement of mechanical properties of carbon and flax fibre hybrid composites for engineering applications. AIP Conference Proceedings, 2021, , .	0.4	4
26	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
27	Thermo-hydraulic performance of solar air heater having winglet type roughness element. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10481-10495.	3.6	3
28	Performance Evaluation of Solar Air Heater Having Chamfered Rib Groove Roughness on Absorber Plate. , 2010, , .		2
29	Effect of depth and salinity of basin water on performance of solar still. , 2017, , .		2
30	Heat Transfer Analysis of a Solar Air Heater Roughened with Chamfered Rib and Groove Roughness on the Absorber Plate Using CFD Approach. Lecture Notes in Mechanical Engineering, 2020, , 1373-1384.	0.4	2
31	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
32	Exergetic efficiency of basin type solar still. AIP Conference Proceedings, 2017, , .	0.4	1
33	Evaluation of Convective Heat Transfer Coefficient of Herbs Dried in a Mixed Mode Solar Dryer. , 2018, , .		1
34	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. AIP Conference Proceedings, 2020, , .	0.4	1
35	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
36	Performance Evaluation of a Solar Air Heater with Transverse Ribs on the Absorber Surface Using CFD Technique. Advances in Sustainability Science and Technology, 2021, , 47-56.	0.6	0