

Anil Singh Yadav

List of Publications by Year in descending order

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36
papers

1,604
citations

430874

18
h-index

345221

36
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36
all docs

36
docs citations

36
times ranked

378
citing authors

#	ARTICLE	IF	CITATIONS
1	A CFD based thermo-hydraulic performance analysis of an artificially roughened solar air heater having equilateral triangular sectioned rib roughness on the absorber plate. International Journal of Heat and Mass Transfer, 2014, 70, 1016-1039.	4.8	214
2	A CFD (computational fluid dynamics) based heat transfer and fluid flow analysis of a solar air heater provided with circular transverse wire rib roughness on the absorber plate. Energy, 2013, 55, 1127-1142.	8.8	195
3	Heat transfer and fluid flow analysis of solar air heater: A review of CFD approach. Renewable and Sustainable Energy Reviews, 2013, 23, 60-79.	16.4	193
4	A numerical investigation of square sectioned transverse rib roughened solar air heater. International Journal of Thermal Sciences, 2014, 79, 111-131.	4.9	173
5	Artificially roughened solar air heater: Experimental investigations. Renewable and Sustainable Energy Reviews, 2014, 36, 370-411.	16.4	77
6	A Numerical Investigation of Turbulent Flows through an Artificially Roughened Solar Air Heater. Numerical Heat Transfer; Part A: Applications, 2014, 65, 679-698.	2.1	68
7	Numerical investigation of flow through an artificially roughened solar air heater. International Journal of Ambient Energy, 2015, 36, 87-100.	2.5	57
8	Modeling and Simulation of Turbulent Flows through a Solar Air Heater Having Square-Sectioned Transverse Rib Roughness on the Absorber Plate. Scientific World Journal, The, 2013, 2013, 1-12.	2.1	47
9	Artificially roughened solar air heater: A comparative study. International Journal of Green Energy, 2016, 13, 143-172.	3.8	47
10	Heat transfer and fluid flow analysis of an artificially roughened solar air heater: a CFD based investigation. Frontiers in Energy, 2014, 8, 201-211.	2.3	46
11	CFD investigation of effect of relative roughness height on Nusselt number and friction factor in an artificially roughened solar air heater. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2015, 38, 494-502.	1.1	40
12	Heat Transfer and Friction Characteristics of an Artificially Roughened Solar Air Heater. Lecture Notes in Mechanical Engineering, 2019, , 613-626.	0.4	38
13	Numerical Simulation of Ribbed Solar Air Heater. Lecture Notes in Mechanical Engineering, 2021, , 549-558.	0.4	37
14	Numerical simulation and CFD-based correlations for artificially roughened solar air heater. Materials Today: Proceedings, 2021, 47, 2685-2693.	1.8	31
15	Enhanced solar thermal air heater: A numerical investigation. Materials Today: Proceedings, 2021, 47, 2777-2783.	1.8	29
16	CFD-Based Correlation Development for Artificially Roughened Solar Air Heater. Lecture Notes in Mechanical Engineering, 2021, , 217-226.	0.4	28
17	Comparative Study of the Performance of Double-Pass and Single-Pass Solar Air Heater with Thermal Storage. Lecture Notes in Mechanical Engineering, 2021, , 227-237.	0.4	28
18	CFD simulation on thermo-hydraulic characteristics of a circular tube having twisted tape inserts. Materials Today: Proceedings, 2021, 47, 2790-2795.	1.8	22

#	ARTICLE	IF	CITATIONS
19	A theoretical parametric analysis to optimize the bed depth of packed bed solar air collector. International Journal of Green Energy, 2022, 19, 775-785.	3.8	18
20	Augmented artificially roughened solar air heaters. Materials Today: Proceedings, 2022, 63, 226-239.	1.8	18
21	Solar thermal air heater for sustainable development. Materials Today: Proceedings, 2022, 60, 80-86.	1.8	18
22	Graphene: An overview of its characteristics and applications. Materials Today: Proceedings, 2021, 47, 2752-2755.	1.8	17
23	Thermal Performance Assessment of Greenhouse Solar Dryer Operated Under Active Mode. Lecture Notes in Mechanical Engineering, 2022, , 75-82.	0.4	17
24	CFD analysis of heat transfer performance of ribbed solar air heater. Materials Today: Proceedings, 2022, 62, 1413-1419.	1.8	17
25	Revisiting the effect of ribs on performance of solar air heater using CFD approach. Materials Today: Proceedings, 2022, 63, 240-252.	1.8	17
26	CFD based heat transfer correlation for ribbed solar air heater. Materials Today: Proceedings, 2022, 62, 1402-1407.	1.8	16
27	3-dimensional CFD simulation and correlation development for circular tube equipped with twisted tape. Materials Today: Proceedings, 2021, 47, 2662-2668.	1.8	13
28	Revisiting the influence of artificial roughness shapes on heat transfer enhancement. Materials Today: Proceedings, 2022, 62, 1383-1391.	1.8	13
29	Experimental Investigation on Heat Transfer Enhancement of Artificially Roughened Solar Air Heater. Heat Transfer Engineering, 2023, 44, 624-637.	1.9	13
30	Recent advances in modeling and simulation techniques used in analysis of solar air heater having ribs. Materials Today: Proceedings, 2022, 62, 1375-1382.	1.8	12
31	Investigation on performance enhancement due to rib roughened solar air heater. Materials Today: Proceedings, 2022, 63, 726-730.	1.8	9
32	Analysis of optimized turning parameters of Hastelloy C-276 using PVD coated carbide inserts in CNC lathe under dry condition. Materials Today: Proceedings, 2021, 47, 2929-2948.	1.8	8
33	Effect of 450 protruded and dimpled rib height on the performance of triangular duct solar heat collector. Materials Today: Proceedings, 2022, 63, 253-258.	1.8	8
34	Performance enhancement of solar air heater by attaching artificial rib roughness on the absorber Plate. Materials Today: Proceedings, 2022, 63, 706-717.	1.8	8
35	Analysis of intake swirl in a compression ignition engine at different intake valve lifts. Materials Today: Proceedings, 2021, 47, 2869-2869.	1.8	7
36	Friction stir welding of cast aluminum alloy (A319): Effect of process parameters. Materials Today: Proceedings, 2022, 56, 1024-1033.	1.8	5