

Sunil Chamoli

List of Publications by Year in descending order

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48
papers

2,180
citations

186265

28
h-index

254184

43
g-index

48
all docs

48
docs citations

48
times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and CFD investigation of convection heat transfer in solar air heater with reverse L-shaped ribs. <i>Solar Energy</i> , 2016, 131, 275-295.	6.1	206
2	A review on technical improvements, economic feasibility and world scenario of solar water heating system. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 541-562.	16.4	120
3	Thermal characteristic of a turbulent flow through a circular tube fitted with perforated vortex generator inserts. <i>Applied Thermal Engineering</i> , 2017, 121, 1117-1134.	6.0	114
4	Thermal performance improvement of a solar air heater fitted with winglet vortex generators. <i>Solar Energy</i> , 2018, 159, 966-983.	6.1	110
5	Experimental investigation of heat transfer and friction factor characteristics of solar air heater using wavy delta winglets. <i>Applied Thermal Engineering</i> , 2017, 117, 740-751.	6.0	107
6	A review of the performance of double pass solar air heater. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 481-492.	16.4	89
7	A review of CFD methodology used in literature for predicting thermo-hydraulic performance of a roughened solar air heater. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 550-605.	16.4	88
8	Heat transfer and fluid flow characteristics of heat exchanger tube with multiple twisted tapes and solid rings inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 102, 156-168.	3.6	74
9	Multi-response optimization of geometric and flow parameters in a heat exchanger tube with perforated disk inserts by Taguchi grey relational analysis. <i>Applied Thermal Engineering</i> , 2016, 103, 1339-1350.	6.0	73
10	ANN and RSM approach for modeling and optimization of designing parameters for a V down perforated baffle roughened rectangular channel. <i>AEJ - Alexandria Engineering Journal</i> , 2015, 54, 429-446.	6.4	70
11	Numerical study on flow structure and heat transfer in a circular tube integrated with novel anchor shaped inserts. <i>Applied Thermal Engineering</i> , 2018, 135, 304-324.	6.0	67
12	Thermal and friction characteristics of a circular tube fitted with perforated hollow circular cylinder inserts. <i>Applied Thermal Engineering</i> , 2018, 130, 230-241.	6.0	65
13	Experimental investigation of heat transfer enhancement and fluid flow characteristics in a protruded surface heat exchanger tube. <i>Experimental Thermal and Fluid Science</i> , 2016, 71, 42-51.	2.7	63
14	Multi-objective shape optimization of a heat exchanger tube fitted with compound inserts. <i>Applied Thermal Engineering</i> , 2017, 117, 708-724.	6.0	62
15	Experimental and CFD-based thermal performance prediction of solar air heater provided with chamfered square rib as artificial roughness. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 643-663.	1.6	57
16	Experimental investigation on thermal performance and fluid flow characteristics in heat exchanger tube with solid hollow circular disk inserts. <i>Applied Thermal Engineering</i> , 2016, 100, 227-236.	6.0	51
17	Hybrid FAHP (fuzzy analytical hierarchy process)-FTOPSIS (fuzzy technique for order preference by) roughened rectangular channel. <i>Energy</i> , 2015, 84, 432-442.	8.8	50
18	Thermal performance intensification of a circular heat exchanger tube integrated with compound circular ring metal wire net inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 124, 50-70.	3.6	50

#	ARTICLE	IF	CITATIONS
19	Numerical optimization of design parameters for a modified double-layer microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 373-389.	4.8	46
20	Experimental and CFD-based thermal performance prediction of solar air heater provided with right-angle triangular rib as artificial roughness. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 551-579.	1.6	45
21	Performance assessment of heat transfer and friction characteristics of a packed bed heat storage system embedded with internal grooved cylinders. <i>Solar Energy</i> , 2018, 161, 148-158.	6.1	45
22	Experimental investigation on thermal performance and fluid flow characteristics in circular cylindrical tube with circular perforated ring inserts. <i>Experimental Thermal and Fluid Science</i> , 2016, 79, 168-174.	2.7	44
23	Correlations for solar air heater duct with V-shaped perforated baffles as roughness elements on absorber plate. <i>International Journal of Sustainable Energy</i> , 2016, 35, 1-20.	2.4	42
24	A review of turbulence promoters used in solar thermal systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3154-3175.	16.4	37
25	Heat transfer enhancement in solar air heater with V-shaped perforated baffles. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	35
26	A Taguchi approach for optimization of flow and geometrical parameters in a rectangular channel roughened with V down perforated baffles. <i>Case Studies in Thermal Engineering</i> , 2015, 5, 59-69.	5.7	35
27	Preference selection index approach for optimization of V down perforated baffled roughened rectangular channel. <i>Energy</i> , 2015, 93, 1418-1425.	8.8	32
28	Experimental Investigation on Thermo-Hydraulic Performance of Heat Exchanger Tube with Solid and Perforated Circular Disk Along with Twisted Tape Insert. <i>Heat Transfer Engineering</i> , 2019, 40, 616-626.	1.9	32
29	Exergetic performance evaluation of solar air heater having V-down perforated baffles on the absorber plate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 909-923.	3.6	31
30	Analytical approach for evaluation of thermo hydraulic performance of roughened solar air heater. <i>Case Studies in Thermal Engineering</i> , 2016, 8, 19-31.	5.7	29
31	Comparative study for thermal-hydraulic performance of circular tube with inserts. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 343-349.	6.4	27
32	Thermal performance escalation of cross flow heat exchanger using in-line elliptical tubes. <i>Experimental Heat Transfer</i> , 2020, 33, 587-612.	3.2	22
33	Heat transfer in a turbulent flow tube integrated with tori as vortex generator inserts. <i>Applied Thermal Engineering</i> , 2021, 194, 117062.	6.0	21
34	Heat transfer and exergy analysis of solar air heater tube with helical corrugation and perforated circular disc inserts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1019-1034.	3.6	20
35	Solar air heater duct roughened with wavy delta winglets: correlations development and parametric optimization. <i>Heat and Mass Transfer</i> , 2019, 55, 3473-3491.	2.1	19
36	Effect of shape modification on heat transfer and drag for fluid flow past a cam-shaped cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 1147-1163.	4.8	18

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37	Experimental investigation of a packed-bed thermal energy storage system fitted with perforated cylindrical elements. <i>Heat and Mass Transfer</i> , 2019, 55, 2723-2737.	2.1	16
38	Thermal Behavior in Rectangular Channel Duct Fitted With V-Shaped Perforated Baffles. <i>Heat Transfer Engineering</i> , 2015, 36, 471-479.	1.9	14
39	Enhanced thermal and fluid flow performance of cross flow tube bank with perforated splitter plate. <i>Experimental Heat Transfer</i> , 2021, 34, 329-341.	3.2	10
40	Entropy generation analysis in a tube heat exchanger integrated with triple blade vortex generator inserts. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-19.	2.3	9
41	Effect of roughness height ratio in V down perforated baffle roughness on thermohydraulic performance of solar air heater: an experimental study. <i>International Journal of Ambient Energy</i> , 2015, 36, 242-247.	2.5	8
42	Thermohydraulic performance and second law analysis of a tube embedded with multiple helical tape inserts. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-23.	2.3	8
43	Performance evaluation of solar air heater having V-down perforated baffles on the absorber plate. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	2.0	6
44	Computational fluid dynamics analysis of a V-rib with gap roughened solar air heater. <i>Thermal Science</i> , 2018, 22, 963-972.	1.1	6
45	Thermal performance of a circular tube embedded with TBVG inserts: an experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 11373-11389.	3.6	6
46	Experimental and CFD-based thermal performance prediction of solar air heater provided with chamfered square rib as artificial roughness. , 0, .		1
47	Tilt Angle Optimization for Grid Interactive Solar Photovoltaic Array. <i>Applied Mechanics and Materials</i> , 0, 110-116, 4554-4558.	0.2	0
48	Study of a perforated hollow cylinder and twisted tape inserts as a compound device in a circular tube for heat transfer enhancement. <i>Kerntechnik</i> , 2022, 87, 137-146.	0.2	0