

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
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48
all docs

48
docs citations

48
times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	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
15	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
16	Thermal performance improvement of a solar air heater fitted with winglet vortex generators. <i>Solar Energy</i> , 2018, 159, 966-983.	6.1	110
17	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
18	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

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19	Multi-objective shape optimization of a heat exchanger tube fitted with compound inserts. Applied Thermal Engineering, 2017, 117, 708-724.	6.0	62
20	Thermal characteristic of a turbulent flow through a circular tube fitted with perforated vortex generator inserts. Applied Thermal Engineering, 2017, 121, 1117-1134.	6.0	114
21	A review on technical improvements, economic feasibility and world scenario of solar water heating system. Renewable and Sustainable Energy Reviews, 2017, 68, 541-562.	16.4	120
22	Experimental investigation on thermal performance and fluid flow characteristics in circular cylindrical tube with circular perforated ring inserts. Experimental Thermal and Fluid Science, 2016, 79, 168-174.	2.7	44
23	Analytical approach for evaluation of thermo hydraulic performance of roughened solar air heater. Case Studies in Thermal Engineering, 2016, 8, 19-31.	5.7	29
24	Multi-response optimization of geometric and flow parameters in a heat exchanger tube with perforated disk inserts by Taguchi grey relational analysis. Applied Thermal Engineering, 2016, 103, 1339-1350.	6.0	73
25	Correlations for solar air heater duct with V-shaped perforated baffles as roughness elements on absorber plate. International Journal of Sustainable Energy, 2016, 35, 1-20.	2.4	42
26	A review of CFD methodology used in literature for predicting thermo-hydraulic performance of a roughened solar air heater. Renewable and Sustainable Energy Reviews, 2016, 54, 550-605.	16.4	88
27	Experimental and CFD investigation of convection heat transfer in solar air heater with reverse L-shaped ribs. Solar Energy, 2016, 131, 275-295.	6.1	206
28	Experimental investigation on thermal performance and fluid flow characteristics in heat exchanger tube with solid hollow circular disk inserts. Applied Thermal Engineering, 2016, 100, 227-236.	6.0	51
29	Heat transfer and fluid flow characteristics of heat exchanger tube with multiple twisted tapes and solid rings inserts. Chemical Engineering and Processing: Process Intensification, 2016, 102, 156-168.	3.6	74
30	Comparative study for thermal-hydraulic performance of circular tube with inserts. AEJ - Alexandria Engineering Journal, 2016, 55, 343-349.	6.4	27
31	Experimental investigation of heat transfer enhancement and fluid flow characteristics in a protruded surface heat exchanger tube. Experimental Thermal and Fluid Science, 2016, 71, 42-51.	2.7	63
32	Experimental and CFD-based thermal performance prediction of solar air heater provided with chamfered square rib as artificial roughness. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 643-663.	1.6	57
33	Experimental and CFD-based thermal performance prediction of solar air heater provided with right-angle triangular rib as artificial roughness. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 551-579.	1.6	45
34	Effect of roughness height ratio in V down perforated baffle roughness on thermohydraulic performance of solar air heater: an experimental study. International Journal of Ambient Energy, 2015, 36, 242-247.	2.5	8
35	A Taguchi approach for optimization of flow and geometrical parameters in a rectangular channel roughened with V down perforated baffles. Case Studies in Thermal Engineering, 2015, 5, 59-69.	5.7	35
36	Thermal Behavior in Rectangular Channel Duct Fitted With V-Shaped Perforated Baffles. Heat Transfer Engineering, 2015, 36, 471-479.	1.9	14

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37	ANN and RSM approach for modeling and optimization of designing parameters for a V down perforated baffle roughened rectangular channel. AEJ - Alexandria Engineering Journal, 2015, 54, 429-446.	6.4	70
38	Hybrid FAHP (fuzzy analytical hierarchy process)-FTOPSIS (fuzzy technique for order preference by) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 roughened rectangular channel. Energy, 2015, 84, 432-442.	8.8	50
39	Preference selection index approach for optimization of V down perforated baffled roughened rectangular channel. Energy, 2015, 93, 1418-1425.	8.8	32
40	Exergetic performance evaluation of solar air heater having V-down perforated baffles on the absorber plate. Journal of Thermal Analysis and Calorimetry, 2014, 117, 909-923.	3.6	31
41	Heat transfer enhancement in solar air heater with V-shaped perforated baffles. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	35
42	Performance evaluation of solar air heater having V-down perforated baffles on the absorber plate. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	6
43	A review of the performance of double pass solar air heater. Renewable and Sustainable Energy Reviews, 2012, 16, 481-492.	16.4	89
44	A review of turbulence promoters used in solar thermal systems. Renewable and Sustainable Energy Reviews, 2012, 16, 3154-3175.	16.4	37
45	Tilt Angle Optimization for Grid Interactive Solar Photovoltaic Array. Applied Mechanics and Materials, 0, 110-116, 4554-4558.	0.2	0
46	Thermohydraulic performance and second law analysis of a tube embedded with multiple helical tape inserts. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-23.	2.3	8
47	Entropy generation analysis in a tube heat exchanger integrated with triple blade vortex generator inserts. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	2.3	9
48	Experimental and CFD-based thermal performance prediction of solar air heater provided with chamfered square rib as artificial roughness. , 0, .		1