

Pongjet Promvonge

List of Publications by Year in descending order

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docs citations

135
times ranked

1905
citing authors

#	ARTICLE	IF	CITATIONS
1	Convective heat transfer in a circular tube with short-length twisted tape insert. International Communications in Heat and Mass Transfer, 2009, 36, 365-371.	5.6	232
2	Experimental investigation of heat transfer and flow friction in a circular tube fitted with regularly spaced twisted tape elements. International Communications in Heat and Mass Transfer, 2006, 33, 1225-1233.	5.6	231
3	Thermal augmentation in circular tube with twisted tape and wire coil turbulators. Energy Conversion and Management, 2008, 49, 2949-2955.	9.2	224
4	Heat transfer behaviors in a tube with combined conical-ring and twisted-tape insert. International Communications in Heat and Mass Transfer, 2007, 34, 849-859.	5.6	218
5	Turbulent heat transfer enhancement in a heat exchanger using helically corrugated tube. International Communications in Heat and Mass Transfer, 2011, 38, 340-347.	5.6	205
6	Review of Ranque-Hilsch effects in vortex tubes. Renewable and Sustainable Energy Reviews, 2008, 12, 1822-1842.	16.4	201
7	Thermal characteristics in round tube fitted with serrated twisted tape. Applied Thermal Engineering, 2010, 30, 1673-1682.	6.0	179
8	Thermal performance assessment of turbulent channel flows over different shaped ribs. International Communications in Heat and Mass Transfer, 2008, 35, 1327-1334.	5.6	176
9	Thermal performance in circular tube fitted with coiled square wires. Energy Conversion and Management, 2008, 49, 980-987.	9.2	175
10	Performance assessment in a heat exchanger tube with alternate clockwise and counter-clockwise twisted-tape inserts. International Journal of Heat and Mass Transfer, 2010, 53, 1364-1372.	4.8	174
11	Enhancement of heat transfer in a tube with regularly-spaced helical tape swirl generators. Solar Energy, 2005, 78, 483-494.	6.1	166
12	Numerical study on heat transfer of turbulent channel flow over periodic grooves. International Communications in Heat and Mass Transfer, 2008, 35, 844-852.	5.6	150
13	Thermal characteristics in a heat exchanger tube fitted with dual twisted tape elements in tandem. International Communications in Heat and Mass Transfer, 2010, 37, 39-46.	5.6	143
14	Investigation of heat transfer enhancement by perforated helical twisted-tapes. International Communications in Heat and Mass Transfer, 2014, 52, 106-112.	5.6	136
15	Enhanced heat transfer in a triangular ribbed channel with longitudinal vortex generators. Energy Conversion and Management, 2010, 51, 1242-1249.	9.2	134
16	Thermal performance enhancement in a heat exchanger tube fitted with inclined vortex rings. Applied Thermal Engineering, 2014, 62, 285-292.	6.0	132
17	Experimental and numerical study on heat transfer enhancement in a channel with Z-shaped baffles. International Communications in Heat and Mass Transfer, 2012, 39, 945-952.	5.6	129
18	Numerical analysis of laminar heat transfer in a channel with diamond-shaped baffles. International Communications in Heat and Mass Transfer, 2009, 36, 32-38.	5.6	127

#	ARTICLE	IF	CITATIONS
19	Influence of combined non-uniform wire coil and twisted tape inserts on thermal performance characteristics. International Communications in Heat and Mass Transfer, 2010, 37, 850-856.	5.6	125
20	Heat transfer augmentation in a wedge-ribbed channel using winglet vortex generators. International Communications in Heat and Mass Transfer, 2010, 37, 163-169.	5.6	123
21	Turbulent flow heat transfer and pressure loss in a double pipe heat exchanger with louvered strip inserts. International Communications in Heat and Mass Transfer, 2008, 35, 120-129.	5.6	120
22	Heat transfer behaviors in round tube with conical ring inserts. Energy Conversion and Management, 2008, 49, 8-15.	9.2	120
23	Thermal behavior in solar air heater channel fitted with combined rib and delta-winglet. International Communications in Heat and Mass Transfer, 2011, 38, 749-756.	5.6	120
24	Thermal performance in solar air heater channel with combined wavy-groove and perforated-delta wing vortex generators. Applied Thermal Engineering, 2016, 100, 611-620.	6.0	112
25	Heat transfer behaviors in a solar air heater channel with multiple V-baffle vortex generators. Solar Energy, 2014, 110, 720-735.	6.1	111
26	Numerical investigation of the thermal separation in a Ranque-Hilsch vortex tube. International Journal of Heat and Mass Transfer, 2007, 50, 821-832.	4.8	110
27	Heat transfer characteristics in a tube fitted with helical screw-tape with/without core-rod inserts. International Communications in Heat and Mass Transfer, 2007, 34, 176-185.	5.6	109
28	Thermal performance in solar air heater with perforated-winglet-type vortex generator. Solar Energy, 2018, 170, 1101-1117.	6.1	108
29	Heat transfer enhancement in a tube with combined conical-nozzle inserts and swirl generator. Energy Conversion and Management, 2006, 47, 2867-2882.	9.2	103
30	Heat transfer and pressure drop in a channel with multiple 60° V-baffles. International Communications in Heat and Mass Transfer, 2010, 37, 835-840.	5.6	103
31	Thermal characteristics of turbulent rib-grooved channel flows. International Communications in Heat and Mass Transfer, 2009, 36, 705-711.	5.6	99
32	Experimental investigation of heat transfer and friction characteristics in a circular tube fitted with V-nozzle turbulators. International Communications in Heat and Mass Transfer, 2006, 33, 591-600.	5.6	97
33	Heat transfer augmentation in a helical-ribbed tube with double twisted tape inserts. International Communications in Heat and Mass Transfer, 2012, 39, 953-959.	5.6	97
34	Laminar periodic flow and heat transfer in square channel with 45° inline baffles on two opposite walls. International Journal of Thermal Sciences, 2010, 49, 963-975.	4.9	96
35	Thermal performance of turbulent flow in a solar air heater channel with rib-groove turbulators. International Communications in Heat and Mass Transfer, 2014, 50, 34-43.	5.6	92
36	Numerical heat transfer study of turbulent square-duct flow through inline V-shaped discrete ribs. International Communications in Heat and Mass Transfer, 2011, 38, 1392-1399.	5.6	91

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37	Heat transfer in a circular tube fitted with free-spacing snail entry and conical-nozzle turbulators. International Communications in Heat and Mass Transfer, 2007, 34, 838-848.	5.6	84
38	Influence of Double-sided Delta-wing Tape Insert with Alternate-axes on Flow and Heat Transfer Characteristics in a Heat Exchanger Tube. Chinese Journal of Chemical Engineering, 2011, 19, 410-423.	3.5	84
39	Turbulent convection in round tube equipped with propeller type swirl generators. International Communications in Heat and Mass Transfer, 2009, 36, 357-364.	5.6	83
40	Experimental Investigation on Turbulent Convection in Solar Air Heater Channel Fitted with Delta Winglet Vortex Generator. Chinese Journal of Chemical Engineering, 2014, 22, 1-10.	3.5	82
41	Thermal performance of tubular heat exchanger with multiple twisted-tape inserts. Chinese Journal of Chemical Engineering, 2015, 23, 755-762.	3.5	81
42	Thermal characterization of turbulent flow in a channel with isosceles triangular ribs. International Communications in Heat and Mass Transfer, 2009, 36, 712-717.	5.6	80
43	Thermal enhancement in a round tube with snail entry and coiled-wire inserts. International Communications in Heat and Mass Transfer, 2008, 35, 623-629.	5.6	78
44	Numerical investigation of laminar heat transfer in a square channel with 45° inclined baffles. International Communications in Heat and Mass Transfer, 2010, 37, 170-177.	5.6	76
45	Heat transfer augmentation in a solar air heater channel with combined winglets and wavy grooves on absorber plate. Applied Thermal Engineering, 2017, 122, 268-284.	6.0	76
46	Heat transfer and turbulent flow friction in a round tube with staggered-winglet perforated-tapes. International Journal of Heat and Mass Transfer, 2016, 95, 230-242.	4.8	75
47	Heat transfer augmentation in a circular tube using V-nozzle turbulator inserts and snail entry. Experimental Thermal and Fluid Science, 2007, 32, 332-340.	2.7	74
48	Thermal performance in square-duct heat exchanger with quadruple V-finned twisted tapes. Applied Thermal Engineering, 2015, 91, 298-307.	6.0	73
49	Heat transfer enhancement in tubular heat exchanger with double V-ribbed twisted-tapes. Case Studies in Thermal Engineering, 2016, 7, 14-24.	5.7	73
50	Heat transfer and turbulent flow friction in a circular tube fitted with conical-nozzle turbulators. International Communications in Heat and Mass Transfer, 2007, 34, 72-82.	5.6	71
51	Experimental investigation on energy separation in a counter-flow Ranque-Hilsch vortex tube: Effect of cooling a hot tube. International Communications in Heat and Mass Transfer, 2010, 37, 156-162.	5.6	70
52	Thermal characterization in a circular tube fitted with inclined horseshoe baffles. Applied Thermal Engineering, 2015, 75, 1147-1155.	6.0	70
53	Heat transfer in square duct fitted diagonally with angle-finned tape—Part 1: Experimental study. International Communications in Heat and Mass Transfer, 2012, 39, 617-624.	5.6	69
54	Thermo-hydraulic performance in heat exchanger tube with V-shaped winglet vortex generator. Applied Thermal Engineering, 2020, 164, 114424.	6.0	69

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55	Numerical study of laminar flow and heat transfer in square channel with 30° inline angled baffle turbulators. <i>Applied Thermal Engineering</i> , 2010, 30, 1292-1303.	6.0	63
56	Periodic laminar flow and heat transfer in a channel with 45° staggered V-baffles. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 841-849.	5.6	59
57	Title is missing!. <i>ScienceAsia</i> , 2005, 31, 215.	0.5	59
58	Numerical prediction on laminar heat transfer in square duct with 30° angled baffle on one wall. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 857-866.	5.6	56
59	3D simulation of laminar flow and heat transfer in V-baffled square channel. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 85-93.	5.6	54
60	Thermal behaviors in a round tube equipped with quadruple perforated-delta-winglet pairs. <i>Applied Thermal Engineering</i> , 2017, 115, 229-243.	6.0	54
61	3D numerical study on flow structure and heat transfer in a circular tube with V-baffles. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 342-349.	3.5	52
62	Experimental and numerical heat transfer investigation in a tubular heat exchanger with delta-wing tape inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 109, 164-177.	3.6	52
63	Experimental and numerical heat transfer investigation in turbulent square-duct flow through oblique horseshoe baffles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 99, 58-71.	3.6	52
64	Experimental study on heat transfer in square duct with combined twisted-tape and winglet vortex generators. <i>International Communications in Heat and Mass Transfer</i> , 2014, 59, 158-165.	5.6	51
65	Heat Transfer Behavior in a Square Duct with Tandem Wire Coil Element Insert. <i>Chinese Journal of Chemical Engineering</i> , 2012, 20, 863-869.	3.5	49
66	Heat transfer augmentation in a circular tube with winglet vortex generators. <i>Chinese Journal of Chemical Engineering</i> , 2015, 23, 605-614.	3.5	44
67	Experimental and numerical heat transfer study of turbulent tube flow through discrete V-winglets. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119351.	4.8	44
68	Heat transfer in square duct fitted diagonally with angle-finned tape—Part 2: Numerical study. <i>International Communications in Heat and Mass Transfer</i> , 2012, 39, 625-633.	5.6	43
69	Effects of rib size and arrangement on forced convective heat transfer in a solar air heater channel. <i>Heat and Mass Transfer</i> , 2015, 51, 1475-1485.	2.1	43
70	Heat transfer in solar receiver heat exchanger with combined punched-V-ribs and chamfer-V-grooves. <i>International Journal of Heat and Mass Transfer</i> , 2019, 143, 118486.	4.8	42
71	Heat transfer characterization in a tubular heat exchanger with V-shaped rings. <i>Applied Thermal Engineering</i> , 2017, 110, 1164-1171.	6.0	40
72	Heat transfer augmentation in solar receiver heat exchanger with hole-punched wings. <i>Applied Thermal Engineering</i> , 2019, 155, 59-69.	6.0	40

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73	Thermal characterization of turbulent tube flows over diamond-shaped elements in tandem. <i>International Journal of Thermal Sciences</i> , 2010, 49, 1051-1062.	4.9	39
74	Thermal behaviors in heat exchanger channel with V-shaped ribs and grooves. <i>Chemical Engineering Research and Design</i> , 2019, 150, 263-273.	5.6	39
75	Thermal performance of heat exchanger tube inserted with curved-winglet tapes. <i>Applied Thermal Engineering</i> , 2018, 129, 1197-1211.	6.0	38
76	Numerical simulation of flow field and temperature separation in a vortex tube. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 937-947.	5.6	36
77	Thermal characteristics in solar air duct with V-shaped flapped-baffles and chamfered-grooves. <i>International Journal of Heat and Mass Transfer</i> , 2021, 172, 121220.	4.8	36
78	Enhanced heat transfer in rectangular duct with punched winglets. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 660-671.	3.5	34
79	Augmented heat transfer in tubular heat exchanger fitted with V-baffled tapes. <i>International Journal of Thermal Sciences</i> , 2020, 155, 106429.	4.9	33
80	Numerical heat transfer in a solar air heater duct with punched delta-winglet vortex generators. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101088.	5.7	32
81	Enhanced thermal performance in tubular heat exchanger contained with V-shaped baffles. <i>Applied Thermal Engineering</i> , 2021, 185, 116307.	6.0	31
82	Experimental and numerical thermal performance in solar receiver heat exchanger with trapezoidal louvered winglet and wavy groove. <i>Solar Energy</i> , 2022, 236, 153-174.	6.1	31
83	Effect of Twin Delta-Winged Twisted-Tape on Thermal Performance of Heat Exchanger Tube. <i>Heat Transfer Engineering</i> , 2013, 34, 1278-1288.	1.9	29
84	Thermal performance augmentation in round tube with louvered V-winglet vortex generator. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 121913.	4.8	29
85	Numerical simulation of 3D turbulent isothermal flow in a vortex combustor. <i>International Communications in Heat and Mass Transfer</i> , 2007, 34, 860-869.	5.6	28
86	Thermal Performance Assessment of Turbulent Tube Flow Through Wire Coil Turbulators. <i>Heat Transfer Engineering</i> , 2011, 32, 957-967.	1.9	26
87	Numerical Heat Transfer Investigation in a Heat Exchanger Tube with Hexagonal Conical-ring Inserts. <i>Energy Procedia</i> , 2016, 100, 522-525.	1.8	20
88	Experimental investigation of combustion characteristics in a multi-staging vortex combustor firing rice husk. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 139-148.	5.6	19
89	Drying characteristics of peppercorns in a rectangular fluidized-bed with triangular wavy walls. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1239-1246.	5.6	19
90	Thermohydraulic performance and entropy generation in heat exchanger tube with louvered winglet tapes. <i>International Journal of Thermal Sciences</i> , 2022, 181, 107733.	4.9	19

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91	Thermal enhancement in a solar air heater channel using rectangular winglet vortex generators. , 2010, , .		18
92	Numerical investigation of heat transfer in pulsating flows through a bluff plate. International Communications in Heat and Mass Transfer, 2007, 34, 829-837.	5.6	15
93	Enhanced heat transfer in a heat exchanger square-duct with discrete V-finned tape inserts. Chinese Journal of Chemical Engineering, 2015, 23, 490-498.	3.5	15
94	Numerical Study of Laminar Heat Transfer in Baffled Square Channel with Various Pitches. Energy Procedia, 2011, 9, 630-642.	1.8	14
95	INFLUENCE OF NONUNIFORM TWISTED TAPE ON HEAT TRANSFER ENHANCEMENT CHARACTERISTICS. Chemical Engineering Communications, 2012, 199, 1279-1297.	2.6	12
96	Heat transfer in solar air duct with multi-V-ribbed absorber and grooved back-plate. Chemical Engineering Research and Design, 2021, 168, 84-95.	5.6	11
97	Heat transfer in a tube with combined V-winglet and twin counter-twisted tape. Case Studies in Thermal Engineering, 2021, 26, 101033.	5.7	11
98	Combustion behavior in a dual-staging vortex rice husk combustor with snail entry. International Communications in Heat and Mass Transfer, 2008, 35, 1134-1140.	5.6	9
99	Numerical heat transfer analysis in turbulent channel flow over a side-by-side triangular prism pair. Journal of Engineering Thermophysics, 2012, 21, 95-110.	1.4	9
100	Rice husk combustion characteristics in a rectangular fluidized-bed combustor with triple pairs of chevron-shaped discrete ribbed walls. Case Studies in Thermal Engineering, 2019, 14, 100511.	5.7	9
101	Behaviors of hydrogen sulfide removal using granular activated carbon and modified granular activated carbon. MATEC Web of Conferences, 2018, 192, 03037.	0.2	8
102	Turbulent periodic flow and heat transfer in a rectangular channel with detached V-baffles. Journal of Engineering Thermophysics, 2017, 26, 542-552.	1.4	7
103	Laminar periodic flow and heat transfer in a rectangular channel with triangular wavy baffles. Journal of Thermal Science, 2012, 21, 250-261.	1.9	5
104	Thermal Performance in Circular Tube with Co/Counter-Twisted Tapes. Advanced Materials Research, 0, 931-932, 1198-1202.	0.3	5
105	Heat transfer enhancement of turbulent channel flow by baffles with rectangular, triangular and trapezoidal upper edges. Journal of Engineering Thermophysics, 2015, 24, 296-304.	1.4	5
106	Numerical Investigations of Compressible Flow and Energy Separation in a Counter-Flow Vortex. International Journal of Fluid Mechanics Research, 2007, 34, 308-331.	0.4	5
107	Thermal-hydraulic performance enhancement of solar receiver channel by flapped V-baffles. Chemical Engineering Research and Design, 2022, 182, 87-97.	5.6	5
108	Performance Evaluation of Solar Receiver Heat Exchanger with Rectangular-Wing Vortex Generators. International Journal of Mechanical Engineering and Robotics Research, 2020, , 130-135.	1.0	4

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109	Drying kinetic of peppercorns in a rectangular fluidized-bed with wavy surfaces. , 2010, , .		3
110	Simulation of Turbulent Heat Transfer in a Tube Fitted with Twisted Tape Placed Separately from the Tube Walls. Applied Mechanics and Materials, 2015, 751, 245-250.	0.2	3
111	Experimental study on heat transfer and pressure drop in a channel with triangular V-ribs. , 2010, , .		2
112	Numerical Simulation of Al ₂ O ₃ -Water Nanofluid Flow and Heat Transfer in a Tube with Angled Rings. Advanced Materials Research, 2014, 931-932, 1168-1172.	0.3	2
113	Numerical Heat Transfer Study of Turbulent Tube Flow through Winglet-pairs. Energy Procedia, 2016, 100, 518-521.	1.8	2
114	Augmented heat transfer in rectangular duct with angled Z-shaped ribs. , 2010, , .		1
115	Heat Transfer Enhancement in a Solar Air Heater Channel with Discrete V-Baffles. Advanced Materials Research, 2014, 931-932, 1193-1197.	0.3	1
116	Heat Transfer Augmentation in a Round Tube with 60° Winglet Pair Inserts. Advanced Materials Research, 0, 931-932, 1188-1192.	0.3	1
117	Computational Investigation on Fully Developed Periodic Laminar Flow Structure in Baffled Circular Tube with Various BR. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	1
118	Thermal Behaviors in a Solar Air Heater Channel with Arc-Shaped Baffle Turbulators. Advanced Materials Research, 0, 1051, 845-849.	0.3	1
119	Performance assessment of solar air heater duct roughened with perforated-winglet vortex generators. International Journal of Smart Grid and Clean Energy, 2017, 6, 31-39.	0.4	1
120	Thermal characteristics in square channel with 45° staggered baffle inserts. , 2010, , .		0
121	3D Simulation on Flow Behavior and Heat Transfer in a Circular Tube with Inclined Different Arrangement of Thin Rib. Advanced Materials Research, 0, 622-623, 628-632.	0.3	0
122	Numerical Heat Transfer Investigation in Solar Air Heater Channel with Wavy-Baffles. Advanced Materials Research, 0, 1051, 808-812.	0.3	0
123	Thermal Behaviors in a Square Duct with U-Ribbed Tape Inserts. Advanced Materials Research, 0, 931-932, 1208-1212.	0.3	0
124	Heat Transfer in Round Tube with Rectangular-Winglet Vortex Generators. Advanced Materials Research, 0, 931-932, 1173-1177.	0.3	0
125	Experimental Study on Flow Friction and Heat Transfer in a Square-Duct Heat Exchanger with Winglet Turbulators. Advanced Materials Research, 0, 931-932, 1183-1187.	0.3	0
126	Heat Transfer Improvement in a Square Duct with Diagonal Inclined Ribs. Advanced Materials Research, 0, 931-932, 1144-1148.	0.3	0

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127	Thermal Characteristics in a Tube Fitted with Inclined Vortex Rings. Advanced Materials Research, 2014, 931-932, 1203-1207.	0.3	0
128	Laminar Convection Heat Transfer in Square Channel Fitted Diagonally with 45° V-Discrete Baffles. Advanced Materials Research, 0, 931-932, 1149-1153.	0.3	0
129	Enhanced Heat Transfer in Square Duct Fitted Diagonally with Double-Sided V-Ribbed Tapes. Applied Mechanics and Materials, 0, 751, 251-256.	0.2	0
130	Drying Behavior of Fluidized Bed Dried Peppercorns. , 2017, , 1395-1406.		0
131	Thermal performance in a tubular heat exchanger with deltawinglets. MATEC Web of Conferences, 2018, 192, 02062.	0.2	0
132	Investigation on Rice Husk Combustion in a Fluidized Bed with Longitudinal Vortex Generators. IOP Conference Series: Earth and Environmental Science, 2019, 265, 012008.	0.3	0
133	Enhanced thermal performance in a square-duct heat exchanger with inclined square-rings. IOP Conference Series: Materials Science and Engineering, 2021, 1137, 012062.	0.6	0
134	Turbulent Heat Transfer and Pressure Loss in a Square-Duct Heat Exchanger with Inclined-Baffle Inserts. Engineering Journal, 2017, 21, 485-497.	1.0	0