

Morteza Khoshvaght-Aliabadi

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89

papers

1,925

citations

28

h-index

39

g-index

90

ext. papers

2,350

ext. citations

4.4

avg, IF

6.06

L-index

#	Paper	IF	Citations
89	Performance of nanofluid flow in corrugated minichannels heat sink (CMCHS). <i>Energy Conversion and Management</i> , 2016 , 108, 297-308	10.6	84
88	Influence of different design parameters and Al ₂ O ₃ -water nanofluid flow on heat transfer and flow characteristics of sinusoidal-corrugated channels. <i>Energy Conversion and Management</i> , 2014 , 88, 96-105	10.6	77
87	Experimental study on cooling performance of sinusoidal wavy minichannel heat sink. <i>Applied Thermal Engineering</i> , 2016 , 92, 50-61	5.8	74
86	Experimental analysis of thermal-hydraulic performance of copper-water nanofluid flow in different plate-fin channels. <i>Experimental Thermal and Fluid Science</i> , 2014 , 52, 248-258	3	72
85	Performance of a plate-fin heat exchanger with vortex-generator channels: 3D-CFD simulation and experimental validation. <i>International Journal of Thermal Sciences</i> , 2015 , 88, 180-192	4.1	70
84	Water cooled corrugated minichannel heat sink for electronic devices: Effect of corrugation shape. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 188-196	5.8	65
83	Role of channel shape on performance of plate-fin heat exchangers: Experimental assessment. <i>International Journal of Thermal Sciences</i> , 2014 , 79, 183-193	4.1	65
82	Influence of twist length variations on thermal-hydraulic specifications of twisted-tape inserts in presence of Cu-water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2015 , 61, 230-240	3	59
81	Effects of geometrical parameters on performance of plate-fin heat exchanger: Vortex-generator as core surface and nanofluid as working media. <i>Applied Thermal Engineering</i> , 2014 , 70, 565-579	5.8	58
80	An experimental study on vortex-generator insert with different arrangements of delta-winglets. <i>Energy</i> , 2015 , 82, 629-639	7.9	51
79	Performance enhancement of straight and wavy miniature heat sinks using pin-fin interruptions and nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 90-108	3.7	46
78	Thermal-hydraulic performance of wavy plate-fin heat exchanger using passive techniques: Perforations, winglets, and nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 78, 231-240	5.8	42
77	Comparison of hydrothermal performance between plate fins and plate-pin fins subject to nanofluid-cooled corrugated miniature heat sinks. <i>Microelectronics Reliability</i> , 2017 , 70, 84-96	1.2	41
76	Enhancement of laminar forced convection cooling in wavy heat sink with rectangular ribs and Al ₂ O ₃ /water nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2017 , 89, 199-210	3	40
75	Effects of nooks configuration on hydrothermal performance of zigzag channels for nanofluid-cooled microelectronic heat sink. <i>Microelectronics Reliability</i> , 2017 , 79, 153-165	1.2	40
74	Wavy Channel and Different Nanofluids Effects on Performance of Plate-Fin Heat Exchangers. <i>Journal of Thermophysics and Heat Transfer</i> , 2014 , 28, 474-484	1.3	38
73	Analysis on Al ₂ O ₃ /water nanofluid flow in a channel by inserting corrugated/perforated fins for solar heating heat exchangers. <i>Renewable Energy</i> , 2018 , 115, 1099-1108	8.1	37

72	Effects of pin-fins geometry and nanofluid on the performance of a pin-fin miniature heat sink (PFMHS). <i>International Journal of Mechanical Sciences</i> , 2018 , 148, 442-458	5.5	37
71	Effects of different pin-fin interruptions on performance of a nanofluid-cooled zigzag miniature heat sink (MHS). <i>International Communications in Heat and Mass Transfer</i> , 2017 , 81, 19-27	5.8	36
70	Al ₂ O ₃ /water nanofluid inside wavy mini-channel with different cross-sections. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 58, 8-18	5.3	36
69	Experimental and parametric studies on a miniature heat sink with offset-strip pins and Al ₂ O ₃ /water nanofluids. <i>Applied Thermal Engineering</i> , 2017 , 111, 1342-1352	5.8	36
68	Thermal-hydraulic characteristics of plate-fin heat exchangers with corrugated/vortex-generator plate-fin (CVGPF). <i>Applied Thermal Engineering</i> , 2016 , 98, 690-701	5.8	34
67	Experimental assessment of different inserts inside straight tubes: Nanofluid as working media. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 97, 1-11	3.7	30
66	Performance of agitated-vessel U tube heat exchanger using spiky twisted tapes and water based metallic nanofluids. <i>Chemical Engineering Research and Design</i> , 2018 , 133, 26-39	5.5	30
65	Forced convection in twisted minichannel (TMC) with different cross section shapes: A numerical study. <i>Applied Thermal Engineering</i> , 2016 , 93, 101-112	5.8	30
64	Experimental investigation of water based nanofluid containing copper nanoparticles across helical microtubes. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 70, 84-92	5.8	30
63	Influence of chevron fin interruption on thermo-fluidic transport characteristics of nanofluid-cooled electronic heat sink. <i>Chemical Engineering Science</i> , 2018 , 191, 436-447	4.4	30
62	Proposing new configurations for twisted square channel (TSC): Nanofluid as working fluid. <i>Applied Thermal Engineering</i> , 2016 , 108, 709-719	5.8	30
61	Influence of Al ₂ O ₃ /H ₂ O nanofluid on performance of twisted minichannels. <i>Advanced Powder Technology</i> , 2016 , 27, 1514-1525	4.6	28
60	Heat transfer intensification of agitated U-tube heat exchanger using twisted-tube and twisted-tape as passive techniques. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 133, 137-147	3.7	28
59	Experimental evaluation of thermal performance and entropy generation inside a twisted U-tube equipped with twisted-tape inserts. <i>International Journal of Thermal Sciences</i> , 2019 , 145, 106051	4.1	27
58	Analysis of straight and wavy miniature heat sinks equipped with straight and wavy pin-fins. <i>International Journal of Thermal Sciences</i> , 2019 , 146, 106071	4.1	25
57	An empirical study on vortex-generator insert fitted in tubular heat exchangers with dilute Cu/water nanofluid flow. <i>Chinese Journal of Chemical Engineering</i> , 2016 , 24, 728-736	3.2	23
56	An investigation of heat transfer in heat exchange devices with spirally-coiled twisted-ducts using nanofluid. <i>Applied Thermal Engineering</i> , 2018 , 143, 358-375	5.8	23
55	An experimental study of Cu/water nanofluid flow inside serpentine tubes with variable straight-section lengths. <i>Experimental Thermal and Fluid Science</i> , 2015 , 61, 1-11	3	22

54	Analysis on performance of nanofluid-cooled vortex-generator channels with variable longitudinal spacing among delta-winglets. <i>Applied Thermal Engineering</i> , 2017 , 122, 1-10	5.8	21
53	Effects of splitter shape on thermal-hydraulic characteristics of plate-pin-fin heat sink (PPFHS). <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118586	4.9	21
52	Empirical and numerical assessments on corrugated and twisted channels as two enhanced geometries. <i>International Journal of Mechanical Sciences</i> , 2019 , 157-158, 25-44	5.5	20
51	Performance of agitated serpentine heat exchanger using metallic nanofluids. <i>Chemical Engineering Research and Design</i> , 2016 , 109, 53-64	5.5	20
50	Turbulent flow of Al ₂ O ₃ -water nanofluid through plate-fin heat exchanger (PFHE) with offset-strip channels. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 164-176	3.6	19
49	Comparative analysis on thermal-hydraulic performance of curved tubes: Different geometrical parameters and working fluids. <i>Energy</i> , 2015 , 91, 588-600	7.9	17
48	Employing wavy structure to enhance thermal efficiency of spiral-coil utilized in solar ponds. <i>Solar Energy</i> , 2020 , 199, 552-569	6.8	17
47	Thermal performance of plate-fin heat exchanger using passive techniques: vortex-generator and nanofluid. <i>Heat and Mass Transfer</i> , 2016 , 52, 819-828	2.2	17
46	Numerical investigation on Al ₂ O ₃ /water nanofluid flow through twisted-serpentine tube with empirical validation. <i>Applied Thermal Engineering</i> , 2018 , 137, 296-309	5.8	16
45	Compound heat transfer enhancement of helical channel with corrugated wall structure. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 146, 118858	4.9	16
44	Performance intensification of tubular heat exchangers using compound twisted-tape and twisted-tube. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 148, 107799	3.7	16
43	Experimental study on metallic water nanofluids flow inside rectangular duct equipped with circular pins (pin channel). <i>Experimental Thermal and Fluid Science</i> , 2016 , 72, 18-30	3	14
42	Investigation of corrugated channel performance with different wave shapes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 3159-3174	4.1	13
41	Heat Transfer Enhancement by Using Copper-Water Nanofluid Flow Inside a Pin Channel. <i>Experimental Heat Transfer</i> , 2015 , 28, 446-463	2.4	13
40	Thermal-hydraulic Characteristics of Novel Configurations of Wavy Channel: Nanofluid as Working Fluid. <i>Heat Transfer Engineering</i> , 2017 , 38, 1382-1395	1.7	13
39	Evaluation of water-cooled heat sink with complex designs of groove for application in fusion energy management. <i>Fusion Engineering and Design</i> , 2019 , 140, 107-116	1.7	12
38	Evaluation of heat transfer and pressure drop in a mini-channel using transverse rectangular vortex-generators with various non-uniform heights. <i>Applied Thermal Engineering</i> , 2019 , 161, 114196	5.8	11
37	Effect of Wave-and-Lance Length Variations on Performance of Wavy and Offset Strip Plate-Fin Heat Exchangers. <i>Arabian Journal for Science and Engineering</i> , 2013 , 38, 3515-3529		11

36	Experimental investigation on thermal-hydraulic characteristics of a tube equipped with modified vortex-generator inserts. <i>Experimental Heat Transfer</i> , 2017 , 30, 11-24	2.4	9
35	Effects of delta winglets on performance of wavy plate-fin in PFHEs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 1625-1640	4.1	9
34	Investigation on Heat Transfer and Pressure Drop of Copper-Water Nanofluid Flow in Plain and Perforated Channels. <i>Experimental Heat Transfer</i> , 2016 , 29, 427-444	2.4	9
33	Performance enhancement of water bath heater at natural gas city gate station using twisted tubes. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 165-179	3.2	9
32	Heat transfer intensification in pin-fin heat sink by changing pin-length/longitudinal-pitch. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 141, 107544	3.7	8
31	Heat Transfer of Cu-Water Nanofluid in Parallel, Corrugated, and Strip Channels. <i>Journal of Thermophysics and Heat Transfer</i> , 2015 , 29, 747-756	1.3	8
30	Effects of ribs on thermal performance of curved absorber tube used in cylindrical solar collectors. <i>Renewable Energy</i> , 2020 , 161, 1260-1275	8.1	8
29	Analysis of flow and heat transfer of different miniature chambers with/and/without rectangular pin: Numerical investigation with empirical validation. <i>Applied Thermal Engineering</i> , 2019 , 150, 923-936	5.8	7
28	Heat transfer and flow characteristics of novel patterns of chevron minichannel heat sink: An insight into thermal management of microelectronic devices. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 122, 105044	5.8	7
27	Three-Dimensional Numerical Study on Thermal-Hydraulic Performance of Twisted Mini-Channel Using Al ₂ O ₃ -H ₂ O Nanofluid. <i>Heat Transfer Engineering</i> , 2020 , 41, 271-287	1.7	7
26	Effects of transversely twisted-turbulators on heat transfer and pressure drop of a channel with uniform wall heat flux. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 154, 108027	3.7	6
25	Proximity effects of straight and wavy fins and their interruptions on performance of heat sinks utilized in battery thermal management. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 173, 121259	4.9	6
24	Effects of cross-section geometry on performance of corrugated miniature heat sink: Uniform, convergent, divergent, and hybrid cases. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105269	5.8	6
23	Heat transfer enhancement by combination of serpentine curves and nanofluid flow in microtube. <i>Experimental Heat Transfer</i> , 2017 , 30, 235-252	2.4	5
22	Experimental study of Cu-Water nanofluid forced convective flow inside a louvered channel. <i>Heat and Mass Transfer</i> , 2015 , 51, 423-432	2.2	5
21	Experimental and numerical studies of air flow and heat transfer due to insertion of novel delta-winglet tapes in a heated channel. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 169, 120912	4.9	4
20	Intensified single-phase forced convective heat transfer with helical-twisted tube in coil heat exchangers. <i>Annals of Nuclear Energy</i> , 2021 , 154, 108108	1.7	4
19	Performance intensification of discontinuous twisted turbulators by using delta-winglets: Experimental study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 164, 108393	3.7	4

18	Enhanced heat transfer in pin fin heat sink working with nitrogen gas/water two-phase flow: variable pin length and longitudinal pitch. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 2875-2901	4.1	3
17	Experimental and numerical analysis of curved turbulators in different arrangements through a rectangular channel. <i>Experimental Heat Transfer</i> , 2020 , 1-23	2.4	3
16	Design of novel geometries for minichannels to reduce junction temperature of heat sinks and enhance temperature uniformity. <i>Applied Thermal Engineering</i> , 2021 , 192, 116926	5.8	3
15	Surface modification of transversely twisted-turbulator using perforations and winglets: An extended study. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 105020	5.8	3
14	Improving thermal performance of microchannels by combining rectangular pin with chamber. <i>Applied Thermal Engineering</i> , 2021 , 186, 116373	5.8	3
13	A parametric study on heat transfer and pressure drop characteristics of circular tube with alternating flattened flow path. <i>International Journal of Thermal Sciences</i> , 2021 , 160, 106671	4.1	2
12	Profit and performance boost of straight, wavy, and combined minichannel heat sinks by counter-current pattern. <i>Journal of Energy Storage</i> , 2021 , 43, 103220	7.8	2
11	Analysis of serpentine coil with alternating flattened axis: An insight into performance enhancement of solar ponds. <i>Solar Energy</i> , 2021 , 217, 292-307	6.8	1
10	Employing enhanced geometries in water bath heating system of natural gas pressure drop stations: Comparative study. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 87, 103775	4.6	1
9	Comparison of Co- and counter-current modes of operation for wavy minichannel heat sinks (WMHSS). <i>International Journal of Thermal Sciences</i> , 2022 , 171, 107189	4.1	1
8	Analysis of twisted structure absorber tube and effects of specific design factor in solar collectors. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102113	4.7	1
7	Effects of central cut on performance intensification of counter-flow integral heat sinks. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 172, 108811	3.7	0
6	Hydrothermal Performance Augmentation of a Rectangular Channel Via Novel Designs of Transverse Turbulators: An Insight into Performance Improvement of Solar Air Heaters. <i>Experimental Techniques</i> , 1	1.4	0
5	Enhancement of heat extraction from solar ponds by using twisted coil-tubes. <i>Environmental Progress and Sustainable Energy</i> , 2021 , 40, e13604	2.5	0
4	Temperature nonuniformity management in heat sinks through applying counter-flow design complex minichannels. <i>Korean Journal of Chemical Engineering</i> , 1	2.8	0
3	On thermal management of pouch type lithium-ion batteries by novel designs of wavy minichannel cold plates: Comparison of co-flow with counter-flow. <i>Journal of Energy Storage</i> , 2022 , 52, 104819	7.8	0
2	Effects of geometrical parameters on thermal-hydraulic performance of wavy microtube. <i>Heat and Mass Transfer</i> , 2018 , 54, 631-639	2.2	
1	Performance evaluation and entropy generation of chevron-type plate-fin equipped with ribs and holes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110127	1.3	

