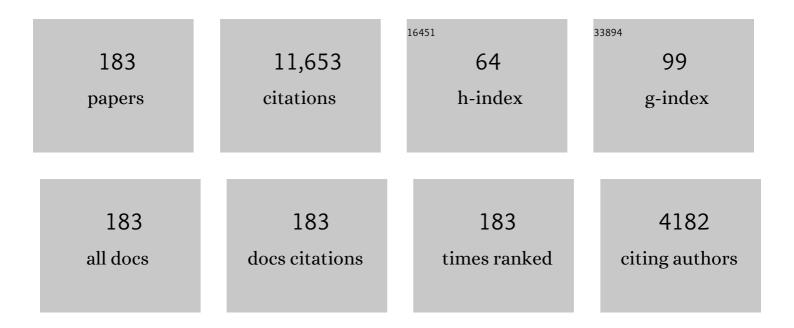
## Amin Shahsavar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Measurement of thermal conductivity of ZnO–TiO2/EG hybrid nanofluid. Journal of Thermal Analysis and Calorimetry, 2016, 125, 527-535.	3.6	312
2	An experimental study on thermal conductivity of F-MWCNTs–Fe 3 O 4 /EG hybrid nanofluid: Effects of temperature and concentration. International Communications in Heat and Mass Transfer, 2016, 76, 171-177.	5.6	300
3	Experimental study on thermal conductivity of ethylene glycol containing hybrid nano-additives and development of a new correlation. Applied Thermal Engineering, 2017, 110, 1111-1119.	6.0	290
4	A review of melting and freezing processes of PCM/nano-PCM and their application in energy storage. Energy, 2020, 211, 118698.	8.8	271
5	Heat transfer efficiency of Al2O3-MWCNT/thermal oil hybrid nanofluid as a cooling fluid in thermal and energy management applications: An experimental and theoretical investigation. International Journal of Heat and Mass Transfer, 2018, 117, 474-486.	4.8	263
6	Experimental study on thermal conductivity of water-based Fe3O4 nanofluid: Development of a new correlation and modeled by artificial neural network. International Communications in Heat and Mass Transfer, 2016, 75, 262-269.	5.6	241
7	A new correlation for predicting the thermal conductivity of ZnO–Ag (50%–50%)/water hybrid nanofluid: An experimental study. Powder Technology, 2018, 323, 367-373.	4.2	217
8	Heat transfer reduction in buildings by embedding phase change material in multi-layer walls: Effects of repositioning, thermophysical properties and thickness of PCM. Energy Conversion and Management, 2019, 195, 43-56.	9.2	206
9	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO 2 (20–80)-SAE40 hybrid nano-lubricant. International Communications in Heat and Mass Transfer, 2016, 76, 133-138.	5.6	203
10	Examination of rheological behavior of MWCNTs/ZnO-SAE40 hybrid nano-lubricants under various temperatures and solid volume fractions. Experimental Thermal and Fluid Science, 2017, 80, 384-390.	2.7	178
11	Experimental determination of viscosity of water based magnetite nanofluid for application in heating and cooling systems. Journal of Magnetism and Magnetic Materials, 2016, 417, 243-248.	2.3	172
12	An experimental study on stability and thermal conductivity of water/silica nanofluid: Eco-friendly production of nanoparticles. Journal of Cleaner Production, 2019, 206, 1089-1100.	9.3	164
13	Developing dissimilar artificial neural networks (ANNs) to prediction the thermal conductivity of MWCNT-TiO2/Water-ethylene glycol hybrid nanofluid. Powder Technology, 2019, 355, 602-610.	4.2	162
14	Studies on optimum fins number in PCM-based heat sinks. Energy, 2019, 171, 1088-1099.	8.8	150
15	Evaluating the effect of temperature and concentration on the thermal conductivity of ZnO-TiO2/EG hybrid nanofluid using artificial neural network and curve fitting on experimental data. Physica A: Statistical Mechanics and Its Applications, 2019, 519, 209-216.	2.6	143
16	A comprehensive review on rheological behavior of mono and hybrid nanofluids: Effective parameters and predictive correlations. International Journal of Heat and Mass Transfer, 2018, 127, 997-1012.	4.8	140
17	Estimation of thermal conductivity of Al2O3/water (40%)–ethylene glycol (60%) by artificial neural network and correlation using experimental data. International Communications in Heat and Mass Transfer, 2016, 74, 125-128.	5.6	139
18	Effect of two isothermal obstacles on the natural convection of nanofluid in the presence of magnetic field inside an enclosure with sinusoidal wall temperature distribution. International Journal of Heat and Mass Transfer, 2018, 121, 565-578.	4.8	139

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19	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. International Communications in Heat and Mass Transfer, 2016, 76, 202-208.	5.6	135
20	A novel comprehensive experimental study concerned synthesizes and prepare liquid paraffin-Fe3O4 mixture to develop models for both thermal conductivity & viscosity: A new approach of GMDH type of neural network. International Journal of Heat and Mass Transfer, 2019, 131, 432-441.	4.8	133
21	Natural convective heat transfer and entropy generation of alumina/water nanofluid in a tilted enclosure with an elliptic constant temperature: Applying magnetic field and radiation effects. International Journal of Mechanical Sciences, 2020, 174, 105470.	6.7	130
22	Thermal performance evaluation of non-uniform fin array in a finned double-pipe latent heat storage system. Energy, 2020, 193, 116800.	8.8	127
23	An experimental evaluation of the effect of ZnO nanoparticles on the rheological behavior of engine oil. Journal of Molecular Liquids, 2017, 236, 198-204.	4.9	125
24	Impact of variable fluid properties on forced convection of Fe3O4/CNT/water hybrid nanofluid in a double-pipe mini-channel heat exchanger. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1031-1043.	3.6	123
25	A novel comparative experimental study on rheological behavior of mono & hybrid nanofluids concerned graphene and silica nano-powders: Characterization, stability and viscosity measurements. Powder Technology, 2020, 366, 216-229.	4.2	120
26	A numerical study of natural convection in a vertical annulus filled with gallium in the presence of magnetic field. Journal of Magnetism and Magnetic Materials, 2017, 430, 22-28.	2.3	119
27	Electro- and thermophysical properties of water-based nanofluids containing copper ferrite nanoparticles coated with silica: Experimental data, modeling through enhanced ANN and curve fitting. International Journal of Heat and Mass Transfer, 2018, 127, 925-935.	4.8	119
28	Effect of a novel clay/silica nanocomposite on water-based drilling fluids: Improvements in rheological and filtration properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 339-350.	4.7	119
29	Free convection heat transfer and entropy generation analysis of water-Fe <sub>3</sub> O <sub>4</sub> /CNT hybrid nanofluid in a concentric annulus. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 915-934.	2.8	118
30	Experimental evaluation, new correlation proposing and ANN modeling of thermal properties of EG based hybrid nanofluid containing ZnO-DWCNT nanoparticles for internal combustion engines applications. Applied Thermal Engineering, 2018, 133, 452-463.	6.0	116
31	Evaluation of rheological behavior of 10W40 lubricant containing hybrid nano-material by measuring dynamic viscosity. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 92, 47-54.	2.7	112
32	Empirical analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regime through an isothermal pipe. Applied Thermal Engineering, 2017, 126, 538-547.	6.0	111
33	Experimental investigation and develop ANNs by introducing the suitable architectures and training algorithms supported by sensitivity analysis: Measure thermal conductivity and viscosity for liquid paraffin based nanofluid containing Al2O3 nanoparticles. Journal of Molecular Liquids, 2019, 276, 850-860.	4.9	111
34	Effect of porous medium and nanoparticles presences in a counter-current triple-tube composite porous/nano-PCM system. Applied Thermal Engineering, 2020, 167, 114777.	6.0	108
35	Effects of graphene oxideâ€ʻsilicon oxide hybrid nanomaterials on rheological behavior of water at various time durations and temperatures: Synthesis, preparation and stability. Powder Technology, 2018, 335, 375-387.	4.2	106
36	Appraising influence of COOH-MWCNTs on thermal conductivity of antifreeze using curve fitting and neural network. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 36-45.	2.6	106

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37	Using of Artificial Neural Networks (ANNs) to predict the thermal conductivity of Zinc Oxide–Silver (50%–50%)/Water hybrid Newtonian nanofluid. International Communications in Heat and Mass Transfer, 2020, 116, 104645.	5.6	106
38	Numerical assessment into the hydrothermal and entropy generation characteristics of biological water-silver nano-fluid in a wavy walled microchannel heat sink. International Communications in Heat and Mass Transfer, 2019, 104, 118-126.	5.6	105
39	Prediction of energetic performance of a building integrated photovoltaic/thermal system thorough artificial neural network and hybrid particle swarm optimization models. Energy Conversion and Management, 2019, 183, 137-148.	9.2	105
40	A novel applicable experimental study on the thermal behavior of SWCNTs(60%)-MgO(40%)/EG hybrid nanofluid by focusing on the thermal conductivity. Powder Technology, 2019, 342, 998-1007.	4.2	104
41	Entropy generation of boehmite alumina nanofluid flow through a minichannel heat exchanger considering nanoparticle shape effect. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 724-736.	2.6	103
42	Measuring the viscosity of Fe3O4-MWCNTs/EG hybrid nanofluid for evaluation of thermal efficiency: Newtonian and non-Newtonian behavior. Journal of Molecular Liquids, 2018, 253, 169-177.	4.9	102
43	Using experimental data to estimate the heat transfer and pressure drop of non-Newtonian nanofluid flow through a circular tube: Applicable for use in heat exchangers. Applied Thermal Engineering, 2018, 129, 1573-1581.	6.0	102
44	An experimental study on rheological behavior of ethylene glycol based nanofluid: Proposing a new correlation as a function of silica concentration and temperature. Journal of Molecular Liquids, 2017, 233, 352-357.	4.9	101
45	An experimental study on heat transfer and pressure drop of water/graphene oxide nanofluid in a copper tube under air cross-flow: Applicable as a heat exchanger. Applied Thermal Engineering, 2017, 125, 69-79.	6.0	99
46	Estimation of thermal conductivity of CNTs-water in low temperature by artificial neural network and correlation. International Communications in Heat and Mass Transfer, 2016, 76, 376-381.	5.6	98
47	Experimental investigation and modeling of thermal conductivity and viscosity for non-Newtonian hybrid nanofluid containing coated CNT/Fe 3 O 4 nanoparticles. Powder Technology, 2017, 318, 441-450.	4.2	97
48	Numerical study on thermal performance of an air-cooled heat exchanger: Effects of hybrid nanofluid, pipe arrangement and cross section. Energy Conversion and Management, 2018, 164, 615-628.	9.2	97
49	Numerical investigation of natural convection behavior of molten PCM in an enclosure having rectangular and tree-like branching fins. Energy, 2020, 207, 118223.	8.8	97
50	Natural convection and entropy generation of a nanofluid around a circular baffle inside an inclined square cavity under thermal radiation and magnetic field effects. International Communications in Heat and Mass Transfer, 2020, 116, 104650.	5.6	95
51	Effects of functionalized single walled carbon nanotubes on thermal performance of antifreeze: An experimental study on thermal conductivity. Applied Thermal Engineering, 2017, 120, 358-366.	6.0	94
52	Numerical investigation of non-Newtonian water-CMC/CuO nanofluid flow in an offset strip-fin microchannel heat sink: Thermal performance and thermodynamic considerations. Applied Thermal Engineering, 2019, 155, 247-258.	6.0	90
53	Rheological characteristics of MgO/oil nanolubricants: Experimental study and neural network modeling. International Communications in Heat and Mass Transfer, 2017, 86, 245-252.	5.6	89
54	The effects of tape insert material on the flow and heat transfer in a nanofluid-based double tube heat exchanger: Two-phase mixture model. International Journal of Mechanical Sciences, 2019, 156, 397-409.	6.7	87

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55	Effect of magnetic field on thermal conductivity and viscosity of a magnetic nanofluid loaded with carbon nanotubes. Journal of Mechanical Science and Technology, 2016, 30, 809-815.	1.5	81
56	Multi-objective energy and exergy optimization of different configurations of hybrid earth-air heat exchanger and building integrated photovoltaic/thermal system. Energy Conversion and Management, 2019, 195, 1098-1110.	9.2	81
57	Hydrothermal analysis of turbulent boehmite alumina nanofluid flow with different nanoparticle shapes in a minichannel heat exchanger using two-phase mixture model. Physica A: Statistical Mechanics and Its Applications, 2019, 520, 275-288.	2.6	81
58	EFFECT OF NANOFLUID VARIABLE PROPERTIES ON MIXED CONVECTION FLOW AND HEAT TRANSFER IN AN INCLINED TWO-SIDED LID-DRIVEN CAVITY WITH SINUSOIDAL HEATING ON SIDEWALLS. Heat Transfer Research, 2014, 45, 409-432.	1.6	80
59	Effect of alumina nano-powder on the convection and the entropy generation of water inside an inclined square cavity subjected to a magnetic field: Uniform and non-uniform temperature boundary conditions. International Journal of Mechanical Sciences, 2019, 152, 99-117.	6.7	78
60	Melting and solidification characteristics of a double-pipe latent heat storage system with sinusoidal wavy channels embedded in a porous medium. Energy, 2019, 171, 751-769.	8.8	78
61	Comprehensive preference learning and feature validity for designing energy-efficient residential buildings using machine learning paradigms. Applied Soft Computing Journal, 2019, 84, 105748.	7.2	73
62	Effects of sonication duration and nanoparticles concentration on thermal conductivity of silica-ethylene glycol nanofluid under different temperatures: An experimental study. Powder Technology, 2020, 367, 464-473.	4.2	73
63	Effect of fuel jet arrangement on the mixing rate inside trapezoidal cavity flame holder at supersonic flow. International Journal of Hydrogen Energy, 2019, 44, 22231-22239.	7.1	70
64	The impact of sonication and stirring durations on the thermal conductivity of alumina-liquid paraffin nanofluid: An experimental assessment. Powder Technology, 2020, 360, 1134-1142.	4.2	68
65	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1258" altimg="si3.gif"> <mml:msub><mml:mrow /&gt;<mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:mrow </mml:msub> /ZnO/EG to present a statistical approach of power law for its rheological and thermal properties. Physica A: Statistical	2.6	66
66	Mechanics and its Applications, 2019, 516, 1-18. Incorporating novel heat recovery units into an AHU for energy demand reduction-exergy analysis. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2821-2830.	3.6	66
67	Numerical investigation of γ-AlOOH nano-fluid convection performance in a wavy channel considering various shapes of nanoadditives. Powder Technology, 2019, 345, 649-657.	4.2	65
68	Wavy channels triple-tube LHS unit with sinusoidal variable wavelength in charging/discharging mechanism. International Communications in Heat and Mass Transfer, 2019, 107, 93-105.	5.6	62
69	A new experimental correlation for non-Newtonian behavior of COOH-DWCNTs/antifreeze nanofluid. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 83-89.	2.7	61
70	Performance evaluation of melting/solidification mechanism in a variable wave-length wavy channel double-tube latent heat storage system. Journal of Energy Storage, 2020, 27, 101063.	8.1	61
71	Exergoeconomic and enviroeconomic study of an air based building integrated photovoltaic/thermal (BIPV/T) system. Energy, 2018, 144, 877-886.	8.8	60
72	An experimental investigation for study the rheological behavior of water–carbon nanotube/magnetite nanofluid subjected to a magnetic field. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122129.	2.6	60

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73	Non-Newtonian nanofluid natural convection in a U-shaped cavity under magnetic field. International Journal of Mechanical Sciences, 2020, 186, 105887.	6.7	60
74	Experimental study on rheological behavior of water–ethylene glycol mixture in the presence of functionalized multi-walled carbon nanotubes. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1177-1185.	3.6	59
75	Thermal and hydraulic characteristics of a minichannel heat exchanger operated with a non-Newtonian hybrid nanofluid. Journal of the Taiwan Institute of Chemical Engineers, 2018, 84, 149-161.	5.3	56
76	Heat transfer and entropy generation optimization for flow of a non-Newtonian hybrid nanofluid containing coated CNT/Fe 3 O 4 nanoparticles in a concentric annulus. Journal of the Taiwan Institute of Chemical Engineers, 2018, 84, 28-40.	5.3	56
77	Energy and exergy analysis of two novel hybrid solar photovoltaic geothermal energy systems incorporating a building integrated photovoltaic thermal system and an earth air heat exchanger system. Solar Energy, 2019, 188, 83-95.	6.1	56
78	Impact of oscillating magnetic field on the thermal-conductivity of water-Fe3O4 and water-Fe3O4/CNT ferro-fluids: Experimental study. Journal of Magnetism and Magnetic Materials, 2019, 484, 258-265.	2.3	56
79	Experimental evaluation of novel photovoltaic/thermal systems using serpentine cooling tubes with different cross-sections of circular, triangular and rectangular. Energy, 2020, 208, 118409.	8.8	53
80	Energy and exergy analysis and multi-objective optimization of an air based building integrated photovoltaic/thermal (BIPV/T) system. Solar Energy, 2017, 158, 380-395.	6.1	51
81	Numerical assessment on the hydrothermal behavior and irreversibility of MgO-Ag/water hybrid nanofluid flow through a sinusoidal hairpin heat-exchanger. International Communications in Heat and Mass Transfer, 2020, 115, 104628.	5.6	51
82	Irreversibility analysis for flow of a non-Newtonian hybrid nanofluid containing coated CNT/Fe3O4 nanoparticles in a minichannel heat exchanger. Applied Thermal Engineering, 2017, 125, 1083-1093.	6.0	50
83	Numerical investigation of forced convection heat transfer and flow irreversibility in a novel heatsink with helical microchannels working with biologically synthesized water-silver nano-fluid. International Communications in Heat and Mass Transfer, 2019, 108, 104324.	5.6	50
84	Natural convection and entropy generation of a nanofluid in two connected inclined triangular enclosures under magnetic field effects. International Communications in Heat and Mass Transfer, 2019, 108, 104309.	5.6	50
85	Effect of magnetic field on laminar forced convective heat transfer of MWCNT–Fe3O4/water hybrid nanofluid in a heated tube. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1809-1825.	3.6	50
86	Experimental evaluation of energy and exergy performance of a nanofluid-based photovoltaic/thermal system equipped with a sheet-and-sinusoidal serpentine tube collector. Journal of Cleaner Production, 2021, 287, 125064.	9.3	50
87	Experimental investigation of the usability of the rifled serpentine tube to improve energy and exergy performances of a nanofluid-based photovoltaic/thermal system. Renewable Energy, 2021, 170, 410-425.	8.9	48
88	Thermo-hydraulic performance of nanofluids in a bionic heat sink. International Communications in Heat and Mass Transfer, 2021, 127, 105492.	5.6	48
89	Second law analysis of turbulent convection flow of boehmite alumina nanofluid inside a double-pipe heat exchanger considering various shapes for nanoparticle. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1521-1532.	3.6	46
90	Effect of line dipole magnetic field on entropy generation of Mn-Zn ferrite ferrofluid flowing through a minichannel using two-phase mixture model. Powder Technology, 2018, 340, 370-379.	4.2	44

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91	The feasibility of genetic programming and ANFIS in prediction energetic performance of a building integrated photovoltaic thermal (BIPVT) system. Solar Energy, 2019, 183, 293-305.	6.1	44
92	An experimental investigation on the rheological behavior of nanofluids made by suspending multi-walled carbon nanotubes in liquid paraffin. Journal of Molecular Liquids, 2020, 300, 112269.	4.9	44
93	Energy analysis and multi-objective optimization of a novel exhaust air heat recovery system consisting of an air-based building integrated photovoltaic/thermal system and a thermal wheel. Energy Conversion and Management, 2018, 172, 595-610.	9.2	42
94	Numerical study of melting and solidification in a wavy double-pipe latent heat thermal energy storage system. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1785-1799.	3.6	42
95	Finite Volume Simulation of mixed convection in an inclined lid-driven cavity filled with nanofluids: Effects of a hot elliptical centric cylinder, cavity angle and volume fraction of nanoparticles. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121122.	2.6	40
96	Numerical investigation on the effect of four constant temperature pipes on natural cooling of electronic heat sink by nanofluids: A multifunctional optimization. Advanced Powder Technology, 2020, 31, 416-432.	4.1	39
97	Numerical investigation of the effect of corrugation profile on the hydrothermal characteristics and entropy generation behavior of laminar forced convection of non-Newtonian water/CMC-CuO nanofluid flow inside a wavy channel. International Communications in Heat and Mass Transfer, 2021, 121, 105117.	5.6	38
98	How the dispersion of magnesium oxide nanoparticles effects on the viscosity of water-ethylene glycol mixture: Experimental evaluation and correlation development. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 87, 273-280.	2.7	37
99	Feasibility of a hybrid BIPV/T and thermal wheel system for exhaust air heat recovery: Energy and exergy assessment and multi-objective optimization. Applied Thermal Engineering, 2019, 146, 104-122.	6.0	37
100	Thermal-hydraulic analysis and irreversibility of the MWCNTs-SiO2/EG-H2O non-Newtonian hybrid nanofluids inside a zigzag micro-channels heat sink. International Communications in Heat and Mass Transfer, 2021, 122, 105158.	5.6	37
101	A comparative experimental investigation of energetic and exergetic performances of water/magnetite nanofluid-based photovoltaic/thermal system equipped with finned and unfinned collectors. Energy, 2021, 220, 119714.	8.8	37
102	Nanoparticle shape effects on thermal-hydraulic performance of boehmite alumina nanofluid in a horizontal double-pipe minichannel heat exchanger. Heat and Mass Transfer, 2019, 55, 1741-1751.	2.1	37
103	Optimization of irreversibility and thermal characteristics of a mini heat exchanger operated with a new hybrid nanofluid containing carbon nanotubes decorated with magnetic nanoparticles. Energy Conversion and Management, 2017, 150, 37-47.	9.2	36
104	An investigation on the influence of the shape of the vortex generator on fluid flow and turbulent heat transfer of hybrid nanofluid in a channel. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1425-1438.	3.6	36
105	Entropy and thermal performance analysis of PCM melting and solidification mechanisms in a wavy channel triplex-tube heat exchanger. Renewable Energy, 2021, 165, 52-72.	8.9	36
106	Using finite volume method for simulating the natural convective heat transfer of nano-fluid flow inside an inclined enclosure with conductive walls in the presence of a constant temperature heat source. Physica A: Statistical Mechanics and Its Applications, 2021, 580, 123035.	2.6	35
107	Energy and Exergy Analysis of Using Turbulator in a Parabolic Trough Solar Collector Filled with Mesoporous Silica Modified with Copper Nanoparticles Hybrid Nanofluid. Energies, 2020, 13, 2946.	3.1	34
108	The effect of using connecting holes on heat transfer and entropy generation behaviors in a micro channels heat sink cooled with biological silver/water nanofluid. International Communications in Heat and Mass Transfer, 2021, 123, 104929.	5.6	34

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109	Robust Weighted Least Squares Support Vector Regression algorithm to estimate the nanofluid thermal properties of water/graphene Oxide–Silicon carbide mixture. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 1418-1428.	2.6	32
110	Turbulent forced convection and entropy production of a nanofluid in a solar collector considering various shapes for nanoparticles. International Communications in Heat and Mass Transfer, 2020, 117, 104804.	5.6	31
111	Experimental investigation of heat and moisture transfer performance of CaCl2/H2O-SiO2 nanofluid in a gas–liquid microporous hollow fiber membrane contactor. International Communications in Heat and Mass Transfer, 2020, 113, 104533.	5.6	31
112	Curve-fitting on experimental thermal conductivity of motor oil under influence of hybrid nano additives containing multi-walled carbon nanotubes and zinc oxide. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122128.	2.6	30
113	Laminar forced convection performance of non-Newtonian water-CNT/Fe3O4 nano-fluid inside a minichannel hairpin heat exchanger: Effect of inlet temperature. Powder Technology, 2019, 354, 247-258.	4.2	29
114	Application of PSO–ANN modelling for predicting the exergetic performance of a building integrated photovoltaic/thermal system. Engineering With Computers, 2020, 36, 633-646.	6.1	29
115	CFD simulation of the impact of tip clearance on the hydrothermal performance and entropy generation of a water-cooled pin-fin heat sink. International Communications in Heat and Mass Transfer, 2021, 126, 105400.	5.6	29
116	Effect of a porous medium on flow and mixed convection heat transfer of nanofluids with variable properties in a trapezoidal enclosure. Journal of Thermal Analysis and Calorimetry, 2020, 139, 741-754.	3.6	28
117	A numerical investigation on the influence of nanoadditive shape on the natural convection and entropy generation inside a rectangle-shaped finned concentric annulus filled with boehmite alumina nanofluid using two-phase mixture model. Journal of Thermal Analysis and Calorimetry, 2020, 141, 915-930.	3.6	27
118	Sonication time efficacy on Fe3O4-liquid paraffin magnetic nanofluid thermal conductivity: An experimental evaluation. Ultrasonics Sonochemistry, 2020, 64, 105004.	8.2	27
119	Experimental evaluation and development of predictive models for rheological behavior of aqueous Fe3O4 ferrofluid in the presence of an external magnetic field by introducing a novel grid optimization based-Kernel ridge regression supported by sensitivity analysis. Powder Technology, 2021, 393, 1-11.	4.2	27
120	Performance assessment of an innovative exhaust air energy recovery system based on the PV/T-assisted thermal wheel. Energy, 2018, 162, 682-696.	8.8	26
121	Viscosity, cloud point, freezing point and flash point of zinc oxide/SAE50 nanolubricant. Journal of Molecular Liquids, 2020, 298, 112045.	4.9	25
122	The entropy generation analysis of forward and backward laminar water flow in a plate-pin-fin heatsink considering three different splitters. International Communications in Heat and Mass Transfer, 2021, 120, 105026.	5.6	25
123	The effect of inlet/outlet number and arrangement on hydrothermal behavior and entropy generation of the laminar water flow in a pin-fin heat sink. International Communications in Heat and Mass Transfer, 2021, 127, 105500.	5.6	25
124	Machine learning predictive models for optimal design of buildingâ€integrated photovoltaicâ€thermal collectors. International Journal of Energy Research, 2020, 44, 5675-5695.	4.5	24
125	Two-phase mixture simulation of the effect of fin arrangement on first and second law performance of a bifurcation microchannels heatsink operated with biologically prepared water-Ag nanofluid. International Communications in Heat and Mass Transfer, 2020, 114, 104554.	5.6	24
126	Natural convection and entropy generation of Ag-water nanofluid in a finned horizontal annulus: A particular focus on the impact of fin numbers. International Communications in Heat and Mass Transfer, 2021, 125, 105349.	5.6	24

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127	Scenario-Based Multi-Objective Optimization of an Air-Based Building-Integrated Photovoltaic/Thermal System. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.8	23
128	Nanofluid-PCM heat sink for building integrated concentrated photovoltaic with thermal energy storage and recovery capability. Sustainable Energy Technologies and Assessments, 2021, 46, 101223.	2.7	23
129	Energetic and exergetic performances of a nanofluid-based photovoltaic/thermal system equipped with a sheet-and-grooved serpentine tube collector: Indoor experimental tests. Solar Energy, 2021, 225, 918-933.	6.1	23
130	Two-phase mixture simulation of the performance of a grooved helical microchannel heat sink filled with biologically prepared water-silver nanofluid: Hydrothermal characteristics and irreversibility behavior. Applied Thermal Engineering, 2022, 202, 117848.	6.0	23
131	Predicting thermophysical properties and flow characteristics of nanofluids using intelligent methods: focusing on ANN methods. Journal of Thermal Analysis and Calorimetry, 2020, 140, 501-525.	3.6	22
132	Effects of the porous medium and water-silver biological nanofluid on the performance of a newly designed heat sink by using first and second laws of thermodynamics. Chinese Journal of Chemical Engineering, 2020, 28, 2928-2937.	3.5	22
133	Characterization of the nanoparticles, the stability analysis and the evaluation of a new hybrid nano-oil thermal conductivity. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1553-1564.	3.6	21
134	Investigation on two-phase fluid mixture flow, heat transfer and entropy generation of a non-Newtonian water-CMC/CuO nanofluid inside a twisted tube with variable twist pitch: Numerical and evolutionary machine learning simulation. Engineering Analysis With Boundary Elements, 2022, 140, 322-337.	3.7	21
135	Numerical study of the possibility of improving the hydrothermal performance of an elliptical double-pipe heat exchanger through the simultaneous use of twisted tubes and non-Newtonian nanofluid. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2825-2840.	3.6	20
136	Comparative energy, exergy, environmental, exergoeconomic, and enviroeconomic analysis of building integrated photovoltaic/thermal, earth-air heat exchanger, and hybrid systems. Journal of Cleaner Production, 2022, 362, 132510.	9.3	20
137	Influence of cerium oxide nanoparticles on thermal conductivity of antifreeze. Journal of Thermal Analysis and Calorimetry, 2020, 139, 225-236.	3.6	19
138	Experimental investigation of the hydrothermal aspects of water–Fe3O4 nanofluid inside a twisted tube. Journal of Thermal Analysis and Calorimetry, 2021, 143, 801-810.	3.6	19
139	Effect of nanoparticle shape on cooling performance of boehmite-alumina nanofluid in a helical heat sink for laminar and turbulent flow regimes. International Journal of Mechanical Sciences, 2022, 217, 107045.	6.7	19
140	Hydrothermal and entropy generation specifications of a hybrid ferronanofluid in microchannel heat sink embedded in CPUs. Chinese Journal of Chemical Engineering, 2021, 32, 27-38.	3.5	18
141	Introducing two scenarios to enhance the vacuum U-tube solar collector efficiency by considering economic criterion. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 228-237.	5.3	17
142	A critical analysis on the energy and exergy performance of photovoltaic/thermal (PV/T) system: The role of nanofluids stability and synthesizing method. Sustainable Energy Technologies and Assessments, 2022, 51, 101887.	2.7	17
143	Evaluation of entropy generation characteristics of boehmite-alumina nanofluid with different shapes of nanoparticles in a helical heat sink. International Journal of Mechanical Sciences, 2022, 225, 107338.	6.7	17
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