Amin Shahsavar

List of Publications by Year in descending order

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183 11,653 64 99 g-index

183 183 183 183 4182

times ranked

citing authors

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#	Article	IF	CITATIONS
1	Thermo-hydraulic performance and entropy generation of biologically synthesized silver/water-ethylene glycol nano-fluid flow inside a rifled tube using two-phase mixture model. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 4463-4480.	2.3	15
2	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
3	Effect of glass cover on the energy and exergy performance of a combined system including a building integrated photovoltaic/thermal system and a sensible rotary heat exchanger. International Journal of Energy Research, 2022, 46, 5050-5066.	4.5	14
4	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
5	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
6	Using high-frequency ultrasonic and thermoelectric generators to enhance the performance of a photovoltaic module. Journal of Cleaner Production, 2022, 350, 131393.	9.3	10
7	Entropy generation characteristics of phase change material in a variable wavy walled triplex tube latent heat storage unit for battery thermal management system. Journal of Energy Storage, 2022, 51, 104374.	8.1	8
8	Numerical assessment on the hydrothermal behaviour and entropy generation characteristics of boehmite alumina nanofluid flow through a concentrating photovoltaic/thermal system considering various shapes for nanoparticle. Sustainable Energy Technologies and Assessments, 2022, 52, 102143.	2.7	3
9	Energy-saving owing to using PCM into buildings: Considering of hot and cold climate region. Sustainable Energy Technologies and Assessments, 2022, 52, 102112.	2.7	6
10	A parametric assessing and intelligent forecasting of the energy and exergy performances of a dish concentrating photovoltaic/thermal collector considering six different nanofluids and applying two meticulous soft computing paradigms. Renewable Energy, 2022, 193, 149-166.	8.9	5
11	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
12	The entropy generation analysis of the influence of using fins with tip clearance on the thermal management of the batteries with phase change material: Application a new gradient-based ensemble machine learning approach. Engineering Analysis With Boundary Elements, 2022, 140, 432-446.	3.7	16
13	Experimental exploration of rheological behavior of polyethylene glycol-carbon dot nanofluid: Introducing a robust artificial intelligence paradigm optimized with unscented Kalman filter technique. Journal of Molecular Liquids, 2022, 358, 119198.	4.9	13
14	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
15	Coupled CFD and 3E (Energy, Exergy and Economical) analysis of using windbreak walls in heller type cooling towers. Journal of Cleaner Production, 2022, 358, 131550.	9.3	5
16	Energy saving in buildings by using the exhaust air and phase change material for cooling of photovoltaic panels. Journal of Building Engineering, 2022, 53, 104520.	3.4	3
17	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
18	Assessment of thermal conductivity of polyethylene glycol-carbon dot nanofluid through a combined experimental-data mining investigation. Journal of Materials Research and Technology, 2022, 19, 2695-2704.	5.8	8

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19	Two-phase mixture numerical and soft computing-based simulation of forced convection of biologically prepared water-silver nanofluid inside a double-pipe heat exchanger with converging sinusoidal wall: Hydrothermal performance and entropy generation analysis. Engineering Analysis With Boundary Elements, 2022, 143, 43-60.	3.7	5
20	Effects of number of objective functions on the optimization of a hybrid building integrated photovoltaic/thermal-heat recovery wheel unit. Sustainable Energy Technologies and Assessments, 2022, 53, 102365.	2.7	2
21	Energy and exergy analysis and multi-objective optimization of using combined vortex tube-photovoltaic/thermal system in city gate stations. Renewable Energy, 2022, 196, 1017-1028.	8.9	6
22	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
23	Numerical investigation of laminar flow of biological nanofluid in a rifled tube using two-phase mixture model: first-law and second-law analyses and geometry optimization. Journal of Thermal Analysis and Calorimetry, 2021, 146, 955-966.	3.6	2
24	Thermal conductivity of ethylene glycol-based nanofluid containing SiO2 nanoadditives: experimental data and modeling through curve fitting. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1101-1109.	3.6	7
25	An experimental study on the cooling efficiency of magnetite–water nanofluid in a twisted tube exposed to a rotating magnetic field. Journal of Thermal Analysis and Calorimetry, 2021, 146, 1893-1909.	3.6	4
26	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
27	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
28	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
29	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
30	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
31	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
32	Free convection of nonâ€Newtonian nanofluid flow inside an eccentric annulus from the point of view of firstâ€law and secondâ€law of thermodynamics. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000266.	1.6	11
33	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
34	Numerical simulation of nanofluid convective heat transfer in an oblique cavity with conductive edges equipped with a constant temperature heat source: Entropy production analysis. Computers and Mathematics With Applications, 2021, 81, 725-736.	2.7	11
35	Application of Artificial Intelligence Techniques in Prediction of Energetic Performance of a Hybrid System Consisting of an Earth-Air Heat Exchanger and a Building-Integrated Photovoltaic/Thermal System. Journal of Solar Energy Engineering, Transactions of the ASME, 2021, 143, .	1.8	9
36	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

3

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37	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
38	Experimental study of the effect of sheet-and-sinusoidal tube collector on the energetic and exergetic performance of a photovoltaic-thermal unit filled with biologically synthesized water/glycerol-silver nanofluid. Applied Thermal Engineering, 2021, 186, 116518.	6.0	13
39	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
40	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
41	Influence of dome shape on flow structure, natural convection and entropy generation in enclosures at different inclinations: A comparative study. International Journal of Mechanical Sciences, 2021, 197, 106321.	6.7	13
42	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
43	Comparison of the performance of different designs of a combined system consisting of a photovoltaic thermal unit and a sensible rotary heat exchanger. Sustainable Energy Technologies and Assessments, 2021, 45, 101203.	2.7	2
44	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
45	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
46	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
47	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
48	Numerical investigation of a doubleâ€pipe latent heat thermal energy storage with sinusoidal wavy fins during melting and solidification. International Journal of Energy Research, 2021, 45, 20934-20948.	4.5	13
49	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
50	Thermo-hydraulic performance of nanofluids in a bionic heat sink. International Communications in Heat and Mass Transfer, 2021, 127, 105492.	5.6	48
51	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
52	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
53	Experimental assessment on convection heat transfer characteristics of aqueous magnetite ferrofluid in a rifled tube under a rotating magnetic field. International Communications in Heat and Mass Transfer, 2021, 129, 105673.	5.6	5
54	Implications of boundary conditions on natural convective heat transfer of molten phase change material inside enclosures. International Journal of Energy Research, 2021, 45, 7631-7650.	4. 5	9

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55	Influence of cerium oxide nanoparticles on thermal conductivity of antifreeze. Journal of Thermal Analysis and Calorimetry, 2020, 139, 225-236.	3.6	19
56	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
57	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
58	Application of PSOâ€"ANN modelling for predicting the exergetic performance of a building integrated photovoltaic/thermal system. Engineering With Computers, 2020, 36, 633-646.	6.1	29
59	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
60	The effect of inlet temperature on the irreversibility characteristics of non-Newtonian hybrid nano-fluid flow inside a minichannel counter-current hairpin heat exchanger. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3789-3801.	3.6	4
61	The effects of vertical and horizontal sources on heat transfer and entropy generation in an inclined triangular enclosure filled with non-Newtonian fluid and subjected to magnetic field. Powder Technology, 2020, 364, 924-942.	4.2	16
62	Multi-objective optimization of a photovoltaic thermal-compound sensible rotary heat exchanger system using exergo-economic and enviro-economic approaches. Journal of Environmental Management, 2020, 254, 109767.	7.8	16
63	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
64	Thermal performance evaluation of non-uniform fin array in a finned double-pipe latent heat storage system. Energy, 2020, 193, 116800.	8.8	127
65	Viscosity, cloud point, freezing point and flash point of zinc oxide/SAE50 nanolubricant. Journal of Molecular Liquids, 2020, 298, 112045.	4.9	25
66	Energy and economic evaluation and multicriteria optimization of different arrangements of integrated photovoltaic thermal and heat recovery wheel system. International Journal of Energy Research, 2020, 44, 1488-1505.	4.5	9
67	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
68	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
69	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
70	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
71	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
72	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

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73	A review of melting and freezing processes of PCM/nano-PCM and their application in energy storage. Energy, 2020, 211, 118698.	8.8	271
74	Two-phase mixture modeling of turbulent forced convective flow of water–silver nanofluid inside a rifled tube: hydrothermal characteristics and irreversibility behavior. Journal of Thermal Analysis and Calorimetry, 2020, , 1.	3.6	3
75	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
76	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
77	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
78	On evaluation of magnetic field effect on the formation of nanoparticles clusters inside aqueous magnetite nanofluid: An experimental study and comprehensive modeling. Journal of Molecular Liquids, 2020, 312, 113378.	4.9	14
79	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
80	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
81	Thermo-hydraulic characteristics investigation of nanofluid heat transfer in a microchannel with super hydrophobic surfaces under non-uniform magnetic field using Incompressible Preconditioned Lattice Boltzmann Method (IPLBM). Physica A: Statistical Mechanics and Its Applications, 2020, 553, 124669.	2.6	16
82	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
83	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
84	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
85	Sonication time efficacy on Fe3O4-liquid paraffin magnetic nanofluid thermal conductivity: An experimental evaluation. Ultrasonics Sonochemistry, 2020, 64, 105004.	8.2	27
86	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
87	Non-Newtonian nanofluid natural convection in a U-shaped cavity under magnetic field. International Journal of Mechanical Sciences, 2020, 186, 105887.	6.7	60
88	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
89	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
90	Numerical simulation of critical heat flux in forced boiling of a flow in an inclined tube with different angles. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2859-2880.	3.6	4

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91	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
92	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
93	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
94	Experimental evaluating the rheological behavior of ethylene glycol under graphene nanosheets loading. Powder Technology, 2020, 367, 788-795.	4.2	11
95	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
96	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
97	Forced convection around horizontal tubes bundles of a heat exchanger using a two-phase mixture model: Effects of nanofluid and tubes Configuration. International Journal of Mechanical Sciences, 2019, 161-162, 105056.	6.7	10
98	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
99	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
100	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
101	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
102	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
103	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
104	Numerical investigation of \hat{I}^3 -AlOOH nano-fluid convection performance in a wavy channel considering various shapes of nanoadditives. Powder Technology, 2019, 345, 649-657.	4.2	65
105	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
106	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
107	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
108	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

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109	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
110	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
111	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
112	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
113	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
114	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
115	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
116	Rheological properties of SWCNT/EG mixture by a new developed optimization approach of LS-Support Vector Regression according to empirical data. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 912-920.	2.6	8
117	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
118	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
119	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
120	Analytical Solution of Heat Conduction in a Symmetrical Cylinder Using the Solution Structure Theorem and Superposition Technique. Symmetry, 2019, 11, 1522.	2.2	5
121	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
122	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
123	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
124	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
125	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
126	A novel comprehensive experimental study concerned synthesizes and prepare liquid paraffin-Fe3O4 mixture to develop models for both thermal conductivity & mp; viscosity: A new approach of GMDH type of neural network. International Journal of Heat and Mass Transfer, 2019, 131, 432-441.	4.8	133

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127	Studies on optimum fins number in PCM-based heat sinks. Energy, 2019, 171, 1088-1099.	8.8	150
128	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
129	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
130	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
131	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 The evaluation on a new non-Newtonian hybrid mixture composed of TiO <mml:math< td=""><td>2.6</td><td>81</td></mml:math<>	2.6	81
132	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e1258" altimg="si3.gif"> <mml:msub><mml:mrow></mml:mrow><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
133	Mechanics and its Applications, 2019, 516, 1-18, Free convection heat transfer and entropy generation analysis of water-Fe ₃ O ₄ /CNT hybrid nanofluid in a concentric annulus. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 915-934.	2.8	118
134	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
135	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
136	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
137	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
138	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
139	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
140	Exergoeconomic and enviroeconomic study of an air based building integrated photovoltaic/thermal (BIPV/T) system. Energy, 2018, 144, 877-886.	8.8	60
141	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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