

arash Karimipour

List of Publications by Year in descending order

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267
papers

14,441
citations

7069

78
h-index

26548

107
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267
all docs

267
docs citations

267
times ranked

4554
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of thermal conductivity and dynamic viscosity of Ag/MgO/water hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 189-195.	2.9	512
2	Thermal conductivity of Cu/TiO ₂ /water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 100-104.	2.9	336
3	An experimental study on thermal conductivity of F-MWCNTs/Fe ₃ O ₄ /EG hybrid nanofluid: Effects of temperature and concentration. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 171-177.	2.9	300
4	Mixed convection of copper/water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 402, 150-168.	1.2	263
5	Simulation of copper/water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 89-99.	1.2	231
6	Investigation of rib's height effect on heat transfer and flow parameters of laminar water/Al ₂ O ₃ nanofluid in a rib-microchannel. <i>Applied Mathematics and Computation</i> , 2016, 290, 135-153.	1.4	217
7	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015, 66, 172-179.	2.9	197
8	Developing a new correlation to estimate the thermal conductivity of MWCNT-CuO/water hybrid nanofluid via an experimental investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 859-867.	2.0	194
9	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al ₂ O ₃ nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2015, 88, 728-734.	2.5	191
10	Influence of T-semi attached rib on turbulent flow and heat transfer parameters of a silver-water nanofluid with different volume fractions in a three-dimensional trapezoidal microchannel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 88, 60-76.	1.3	167
11	Experimental study on thermal conductivity of DWCNT-ZnO/water-EG nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 248-251.	2.9	164
12	Experimental study of the effect of solid volume fraction and Reynolds number on heat transfer coefficient and pressure drop of CuO/Water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2016, 76, 342-351.	1.5	161
13	The investigation of thermal radiation and free convection heat transfer mechanisms of nanofluid inside a shallow cavity by lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 515-535.	1.2	156
14	The effect of velocity and dimension of solid nanoparticles on heat transfer in non-Newtonian nanofluid. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 68-75.	1.3	154
15	The effects of different nano particles of Al ₂ O ₃ and Ag on the MHD nano fluid flow and heat transfer in a microchannel including slip velocity and temperature jump. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 146-153.	1.3	151
16	An experimental study on rheological behavior of hybrid nanofluids made of iron and copper oxide in a binary mixture of water and ethylene glycol: Non-Newtonian behavior. <i>Experimental Thermal and Fluid Science</i> , 2016, 79, 231-237.	1.5	150
17	Effects of temperature and concentration on the viscosity of nanofluids made of single-wall carbon nanotubes in ethylene glycol. <i>International Communications in Heat and Mass Transfer</i> , 2016, 74, 108-113.	2.9	149
18	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 69-77.	2.9	145

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37	A review on the properties, preparation, models and stability of hybrid nanofluids to optimize energy consumption. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1959-1983.	2.0	118
38	Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model. <i>Powder Technology</i> , 2015, 284, 336-343.	2.1	117
39	Numerical simulation of heat transfer and turbulent flow of water nanofluids copper oxide in rectangular microchannel with semi-attached rib. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401664101.	0.8	115
40	Effects of geometric parameters on the performance of solar chimney power plants. <i>Energy</i> , 2018, 162, 1052-1061.	4.5	113
41	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG-water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015, 65, 47-51.	2.9	111
42	Empirical analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regime through an isothermal pipe. <i>Applied Thermal Engineering</i> , 2017, 126, 538-547.	3.0	111
43	Develop 24 dissimilar ANNs by suitable architectures & training algorithms via sensitivity analysis to better statistical presentation: Measure MSEs between targets & ANN for Fe-CuO/Eg-Water nanofluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 519, 159-168.	1.2	110
44	Molecular dynamics simulation of fluid flow passing through a nanochannel: Effects of geometric shape of roughnesses. <i>Journal of Molecular Liquids</i> , 2019, 275, 192-203.	2.3	110
45	Rheological behavior of hybrid MWCNTs-TiO ₂ /EG nanofluid: A comprehensive modeling and experimental study. <i>Journal of Molecular Liquids</i> , 2020, 308, 113058.	2.3	110
46	Thermal conductivity and viscosity of Mg(OH) ₂ -ethylene glycol nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1145-1149.	2.0	109
47	Develop the nano scale method of lattice Boltzmann to predict the fluid flow and heat transfer of air in the inclined lid driven cavity with a large heat source inside, Two case studies: Pure natural convection & mixed convection. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 210-233.	1.2	109
48	Energy efficiency optimization of the waste heat recovery system with embedded phase change materials in greenhouses: A thermo-economic-environmental study. <i>Journal of Energy Storage</i> , 2020, 30, 101445.	3.9	109
49	Using of Artificial Neural Networks (ANNs) to predict the thermal conductivity of Zinc Oxide-Silver (50%-50%)/Water hybrid Newtonian nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104645.	2.9	106
50	A new correlation for estimating the thermal conductivity and dynamic viscosity of CuO/liquid paraffin nanofluid using neural network method. <i>International Communications in Heat and Mass Transfer</i> , 2018, 92, 90-99.	2.9	105
51	Numerical assessment into the hydrothermal and entropy generation characteristics of biological water-silver nano-fluid in a wavy walled microchannel heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2019, 104, 118-126.	2.9	105
52	Modeling different structures in perturbed Poiseuille flow in a nanochannel by using of molecular dynamics simulation: Study the equilibrium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 515, 13-30.	1.2	105
53	Investigation into the effects of slip boundary condition on nanofluid flow in a double-layer microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2975-2991.	2.0	104
54	An experimental study on rheological behavior of ethylene glycol based nanofluid: Proposing a new correlation as a function of silica concentration and temperature. <i>Journal of Molecular Liquids</i> , 2017, 233, 352-357.	2.3	101

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55	Investigation of Micro- and Nanosized Particle Erosion in a 90° Pipe Bend Using a Two-Phase Discrete Phase Model. <i>Scientific World Journal, The</i> , 2014, 2014, 1-12.	0.8	99
56	Natural convection of Al ₂ O ₃ -water nanofluid in an inclined enclosure with the effects of slip velocity mechanisms: Brownian motion and thermophoresis phenomenon. <i>International Journal of Thermal Sciences</i> , 2016, 105, 137-158.	2.6	99
57	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. <i>Applied Thermal Engineering</i> , 2017, 125, 69-79.	3.0	99
58	Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations. <i>Renewable Energy</i> , 2020, 153, 1296-1306.	4.3	99
59	Experimental investigation of the effects of temperature and mass fraction on the dynamic viscosity of CuO-paraffin nanofluid. <i>Applied Thermal Engineering</i> , 2018, 128, 189-197.	3.0	98
60	Modeling and estimation of thermal conductivity of MgO-water/EG (60:40) by artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2015, 68, 98-103.	2.9	97
61	Developing the laminar MHD forced convection flow of water/FMWNT carbon nanotubes in a microchannel imposed the uniform heat flux. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 420-428.	1.0	97
62	Investigation of energy performance in a U-shaped evacuated solar tube collector using oxide added nanoparticles through the emitter, absorber and transmittal environments via discrete ordinates radiation method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2623-2631.	2.0	97
63	Investigation of permeability effect on slip velocity and temperature jump boundary conditions for FMWNT/Water nanofluid flow and heat transfer inside a microchannel filled by a porous media. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 226-238.	1.3	95
64	Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 656-666.	2.5	94
65	Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 783-791.	2.5	94
66	Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 418-426.	2.5	94
67	Numerical investigation of the pseudopotential lattice Boltzmann modeling of liquid-vapor for multi-phase flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 489, 65-77.	1.2	94
68	Effects of magnetic field on micro cross jet injection of dispersed nanoparticles in a microchannel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 2683-2704.	1.6	94
69	Investigation of the gravity effects on the mixed convection heat transfer in a microchannel using lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2012, 54, 142-152.	2.6	93
70	The variations of heat transfer and slip velocity of FMWNT-water nano-fluid along the micro-channel in the lack and presence of a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 474-481.	1.3	92
71	Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1045-1058.	2.0	91
72	Develop the lattice Boltzmann method to simulate the slip velocity and temperature domain of buoyancy forces of FMWCNT nanoparticles in water through a micro flow imposed to the specified heat flux. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 729-745.	1.2	90

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73	Improve the thermal conductivity of 10w40-engine oil at various temperature by addition of Al ₂ O ₃ /Fe ₂ O ₃ nanoparticles. Journal of Molecular Liquids, 2019, 283, 660-666.	2.3	90
74	Estimation of Pressure Drop of Two-Phase Flow in Horizontal Long Pipes Using Artificial Neural Networks. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	90
75	Numerical Study of Entropy Generation due to Coupled Laminar and Turbulent Mixed Convection and Thermal Radiation in an Enclosure Filled with a Semitransparent Medium. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	86
76	Impact of ribs on flow parameters and laminar heat transfer of water-aluminum oxide nanofluid with different nanoparticle volume fractions in a three-dimensional rectangular microchannel. Advances in Mechanical Engineering, 2015, 7, 168781401561815.	0.8	86
77	Magneto-natural convection in square cavities with a source-sink pair on different walls. International Journal of Applied Electromagnetics and Mechanics, 2015, 47, 21-32.	0.3	86
78	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.	0.9	80
79	Turbulent flows in a spiral double-pipe heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 39-53.	1.6	79
80	Prediction of boiling flow characteristics in rough and smooth microchannels using molecular dynamics simulation: Investigation the effects of boundary wall temperatures. Journal of Molecular Liquids, 2020, 306, 112937.	2.3	75
81	Comparison of the Finite Volume and Lattice Boltzmann Methods for Solving Natural Convection Heat Transfer Problems inside Cavities and Enclosures. Abstract and Applied Analysis, 2014, 2014, 1-15.	0.3	72
82	Efficacy of hybrid nano-powder presence on the thermal conductivity of the engine oil: An experimental study. Powder Technology, 2020, 369, 261-269.	2.1	70
83	Investigation of permeability and porosity effects on the slip velocity and convection heat transfer rate of Fe ₃ O ₄ /water nanofluid flow in a microchannel while its lower half filled by a porous medium. International Journal of Heat and Mass Transfer, 2018, 119, 891-906.	2.5	69
84	Nano scale lattice Boltzmann method to simulate the mixed convection heat transfer of air in a lid-driven cavity with an endothermic obstacle inside. Physica A: Statistical Mechanics and Its Applications, 2018, 508, 681-701.	1.2	67
85	Investigation of the rheological and thermal properties of a TiO ₂ /ZnO/EG nanofluid. Physica A: Statistical Mechanics and Its Applications, 2019, 516, 1-18.	1.2	66
86	A three-dimensional lattice Boltzmann model for numerical investigation of bubble growth in pool boiling. International Communications in Heat and Mass Transfer, 2016, 79, 58-66.	2.9	64
87	A novel comprehensive experimental study concerned graphene oxide nanoparticles dispersed in water: Synthesis, characterisation, thermal conductivity measurement and present a new approach of RLSF neural network. International Communications in Heat and Mass Transfer, 2019, 109, 104333.	2.9	64
88	Influence of a membrane on nanofluid heat transfer and irreversibilities inside a cavity with two constant-temperature semicircular sources on the lower wall: applicable to solar collectors. Physica Scripta, 2020, 95, 085702.	1.2	61
89	MIXED-CONVECTION FLOW IN A LID-DRIVEN SQUARE CAVITY FILLED WITH A NANOFLUID WITH VARIABLE PROPERTIES: EFFECT OF THE NANOPARTICLE DIAMETER AND OF THE POSITION OF A HOT OBSTACLE. Heat Transfer Research, 2014, 45, 563-578.	0.9	61
90	Fully developed forced convection of alumina/water nanofluid inside microchannels with asymmetric heating. Powder Technology, 2015, 269, 520-531.	2.1	59

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91	Experimental study of temperature and mass fraction effects on thermal conductivity and dynamic viscosity of SiO ₂ -oleic acid/liquid paraffin nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104436.	2.9	59
92	Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles' mass fraction, temperature and basefluid's types to develop a correlation. <i>Meccanica</i> , 2018, 53, 3739-3757.	1.2	55
93	Experimental investigation toward obtaining nanoparticles' surficial interaction with basefluid components based on measuring thermal conductivity of nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2019, 103, 72-82.	2.9	54
94	Comprehensive simulation of nanofluid flow and heat transfer in straight ribbed microtube using single-phase and two-phase models for choosing the best conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 701-720.	2.0	54
95	Sensitivity of adhesive and cohesive intermolecular forces to the incorporation of MWCNTs into liquid paraffin: Experimental study and modeling of surface tension. <i>Journal of Molecular Liquids</i> , 2020, 310, 113235.	2.3	53
96	Present a multi-criteria modeling and optimization (energy, economic and environmental) approach of industrial combined cooling heating and power (CCHP) generation systems using the genetic algorithm, case study: A tile factory. <i>Energy</i> , 2018, 149, 286-295.	4.5	51
97	Investigation of the effect of adding nano-encapsulated phase change material to water in natural convection inside a rectangular cavity. <i>Journal of Energy Storage</i> , 2021, 40, 102699.	3.9	50
98	Experimental Investigation on a Thermal Model for a Basin Solar Still with an External Reflector. <i>Energies</i> , 2017, 10, 18.	1.6	48
99	Studying the Effect of Indentation on Flow Parameters and Slow Heat Transfer of Water-Silver Nano-Fluid with Varying Volume Fraction in a Rectangular Two-Dimensional Micro Channel. <i>Indian Journal of Science and Technology</i> , 2015, 8, .	0.5	47
100	Simulation of water/FMWCNT nanofluid forced convection in a microchannel filled with porous material under slip velocity and temperature jump boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 2329-2349.	1.6	47
101	Free convection/radiation and entropy generation analyses for nanofluid of inclined square enclosure with uniform magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 635-648.	2.0	47
102	A useful case study to develop lattice Boltzmann method performance: Gravity effects on slip velocity and temperature profiles of an air flow inside a microchannel under a constant heat flux boundary condition. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 1017-1029.	2.5	46
103	Mixed convection in a lid-driven cavity with an inside hot obstacle filled by an Al ₂ O ₃ -water nanofluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015, 56, 443-453.	0.1	44
104	Efficacy of injectable rib height on the heat transfer and entropy generation in the microchannel by affecting slip flow. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	44
105	Thermal Conductivity Enhancement via Synthesis Produces a New Hybrid Mixture Composed of Copper Oxide and Multi-walled Carbon Nanotube Dispersed in Water: Experimental Characterization and Artificial Neural Network Modeling. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	44
106	Develop Molecular Dynamics Method to Simulate the Flow and Thermal Domains of H ₂ O/Cu Nanofluid in a Nanochannel Affected by an External Electric Field. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	44
107	Experimental investigation of temperature field and fusion zone microstructure in dissimilar pulsed laser welding of austenitic stainless steel and copper. <i>Journal of Manufacturing Processes</i> , 2020, 56, 206-215.	2.8	43
108	Effects of dispersed added Graphene Oxide-Silicon Carbide nanoparticles to present a statistical formulation for the mixture thermal properties. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 521, 98-112.	1.2	42

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109	A 3-D numerical simulation of non-Newtonian blood flow through femoral artery bifurcation with a moderate arteriosclerosis: investigating Newtonian/non-Newtonian flow and its effects on elastic vessel walls. <i>Heat and Mass Transfer</i> , 2019, 55, 2037-2047.	1.2	42
110	Effects of cobalt ferrite coated with silica nanocomposite on the thermal conductivity of an antifreeze: New nanofluid for refrigeration condensers. <i>International Journal of Refrigeration</i> , 2019, 102, 86-95.	1.8	42
111	Experimental investigation toward obtaining a new correlation for viscosity of WO ₃ and Al ₂ O ₃ nanoparticles-loaded nanofluid within aqueous and non-aqueous basefluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 713-728.	2.0	41
112	Effects of the laser parameters on the mechanical properties and microstructure of weld joint in dissimilar pulsed laser welding of AISI 304 and AISI 420. <i>Infrared Physics and Technology</i> , 2019, 103, 103081.	1.3	40
113	Numerical investigation of nanofluid laminar forced convection heat transfer between two horizontal concentric cylinders in the presence of porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2095-2108.	2.0	40
114	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122456.	1.2	39
115	Slip velocity and temperature jump of a non-Newtonian nanofluid, aqueous solution of carboxy-methyl cellulose/aluminum oxide nanoparticles, through a microtube. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1606-1628.	1.6	39
116	Numerical investigation on the effect of four constant temperature pipes on natural cooling of electronic heat sink by nanofluids: A multifunctional optimization. <i>Advanced Powder Technology</i> , 2020, 31, 416-432.	2.0	39
117	Prediction of rheological behavior of a new hybrid nanofluid consists of copper oxide and multi wall carbon nanotubes suspended in a mixture of water and ethylene glycol using curve-fitting on experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124101.	1.2	38
118	Functionalized Multi-walled carbon Nano Tubes nanoparticles dispersed in water through an Magneto Hydro Dynamic nonsmooth duct equipped with sinusoidal wavy wall: Diminishing vortex intensity via nonlinear Navier-Stokes equations. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	38
119	Periodic mixed convection of a nanofluid in a cavity with top lid sinusoidal motion. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011, 225, 2149-2160.	1.1	36
120	Providing a model for C_{sf} according to pool boiling convection heat transfer of water/ferrous oxide nanofluid using sensitivity analysis. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 2867-2881.	1.6	36
121	Experimental and numerical study of temperature field and molten pool dimensions in dissimilar thickness laser welding of Ti6Al4V alloy. <i>Journal of Manufacturing Processes</i> , 2020, 49, 438-446.	2.8	36
122	Propose a new approach of fuzzy lookup table method to predict Al ₂ O ₃ /deionized water nanofluid thermal conductivity based on achieved empirical data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121177.	1.2	35
123	Lattice Boltzmann method to simulate convection heat transfer in a microchannel under heat flux. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2020, 30, 3371-3398.	1.6	32
124	Prediction of the interaction between HIV viruses and Human Serum Albumin (HSA) molecules using an equilibrium dynamics simulation program for application in bio medical science. <i>Journal of Molecular Liquids</i> , 2020, 318, 113989.	2.3	31
125	Using phase change material as an energy-efficient technique to reduce energy demand in air handling unit integrated with absorption chiller and recovery unit—Applicable for high solar-irradiance regions. <i>Journal of Energy Storage</i> , 2021, 42, 103080.	3.9	31
126	Increase lattice Boltzmann method ability to simulate slip flow regimes with dispersed CNTs nanoadditives inside. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 229-243.	2.0	30

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127	A Novel Correlation to Calculate Thermal Conductivity of Aqueous Hybrid Graphene Oxide/Silicon Dioxide Nanofluid: Synthesis, Characterizations, Preparation, and Artificial Neural Network Modeling. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 9747-9758.	1.7	30
128	Increase thermal conductivity of aqueous mixture by additives graphene nanoparticles in water via an experimental/numerical study: Synthesis, characterization, conductivity measurement, and neural network modeling. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104864.	2.9	30
129	Present a new multi objective optimization statistical Pareto frontier method composed of artificial neural network and multi objective genetic algorithm to improve the pipe flow hydrodynamic and thermal properties such as pressure drop and heat transfer coefficient for non-Newtonian binary fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122409.	1.2	29
130	Comparison of the artificial neural network model prediction and the experimental results for cutting region temperature and surface roughness in laser cutting of AL6061T6 alloy. <i>Infrared Physics and Technology</i> , 2020, 108, 103364.	1.3	29
131	Natural convection of liquid metal in a horizontal cylindrical annulus under radial magnetic field. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2015, 49, 453-461.	0.3	28
132	Synthesis and characterization of additive graphene oxide nanoparticles dispersed in water: Experimental and theoretical viscosity prediction of non-Newtonian nanofluid. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	28
133	Minimize pressure drop and maximize heat transfer coefficient by the new proposed multi-objective optimization/statistical model composed of ANN + Genetic Algorithm-based on empirical data of CuO/paraffin nanofluid in a pipe. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 527, 121056.	1.2	27
134	The Effect of Hematocrit and Nanoparticles Diameter on Hemodynamic Parameters and Drug Delivery in Abdominal Aortic Aneurysm with Consideration of Blood Pulsatile Flow. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105545.	2.6	27
135	Effects of examine the phase change material through applying the solar collectors: exergy analysis of an air handling unit equipped with the heat recovery unit. <i>Journal of Energy Storage</i> , 2021, 41, 103002.	3.9	27
136	Lattice Boltzmann method with heat flux boundary condition applied to mixed convection in inclined lid driven cavity. <i>Meccanica</i> , 2015, 50, 945-962.	1.2	26
137	The effects of porosity and permeability on fluid flow and heat transfer of multi walled carbon nano-tubes suspended in oil (MWCNT/Oil nano-fluid) in a microchannel filled with a porous medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 423-433.	1.3	26
138	Thermal conductivity enhancement of nanofluid by adding multiwalled carbon nanotubes: Characterization and numerical modeling patterns. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	26
139	Application of rotating circular obstacles in improving ferrofluid heat transfer in an enclosure saturated with porous medium subjected to a magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 3301-3323.	2.0	26
140	Effect of Magnetic Field on Mixed Convection Heat Transfer in a Lid-Driven Square Cavity. <i>Journal of Thermodynamics</i> , 2016, 2016, 1-14.	0.8	25
141	Different nano-particles volume fraction and Hartmann number effects on flow and heat transfer of water-silver nanofluid under the variable heat flux. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 85, 271-279.	1.3	25
142	Viscosity, cloud point, freezing point and flash point of zinc oxide/SAE50 nanolubricant. <i>Journal of Molecular Liquids</i> , 2020, 298, 112045.	2.3	25
143	Comprehensive analysis on the effect of asymmetric heat fluxes on microchannel slip flow and heat transfer via a lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104856.	2.9	25
144	Effects of various temperature and pressure initial conditions to predict the thermal conductivity and phase alteration duration of water based carbon hybrid nanofluids via MD approach. <i>Journal of Molecular Liquids</i> , 2022, 351, 118654.	2.3	25

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145	Investigation the atomic arrangement and stability of the fluid inside a rough nanochannel in both presence and absence of different roughness by using of accurate nano scale simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 524, 639-660.	1.2	24
146	Controlled elitist multi-objective genetic algorithm joined with neural network to study the effects of nano-clay percentage on cell size and polymer foams density of PVC/clay nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2801-2810.	2.0	24
147	Energy and exergy analysis and optimization of a gas turbine cycle coupled by a bottoming organic Rankine cycle. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 495-510.	2.0	24
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