

The effect of alumina/water nanofluid particle size on t

Applied Thermal Engineering

30, 2213-2218

DOI: [10.1016/j.applthermaleng.2010.05.036](https://doi.org/10.1016/j.applthermaleng.2010.05.036)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Synthesis of Aqueous and Nonaqueous Iron Oxide Nanofluids and Study of Temperature Dependence on Thermal Conductivity and Viscosity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18825-18833.	1.5	173
2	Numerical study of two phase laminar mixed convection nanofluid in elliptic ducts. <i>Applied Thermal Engineering</i> , 2011, 31, 2348-2359.	3.0	74
3	Review of thermo-physical properties, wetting and heat transfer characteristics of nanofluids and their applicability in industrial quench heat treatment. <i>Nanoscale Research Letters</i> , 2011, 6, 334.	3.1	108
4	Lattice Boltzmann simulation of alumina-water nanofluid in a square cavity. <i>Nanoscale Research Letters</i> , 2011, 6, 184.	3.1	58
5	Experimental and theoretical studies of nanofluid thermal conductivity enhancement: a review. <i>Nanoscale Research Letters</i> , 2011, 6, 229.	3.1	330
6	Preparation and characterization of carbon nanofluid by a plasma arc nanoparticles synthesis system. <i>Nanoscale Research Letters</i> , 2011, 6, 293.	3.1	33
7	Contradictory Evidence for the Role of Temperature and Particle Size in Nanofluid Thermal Conductivity. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1347, 1.	0.1	0
8	Thermal properties of nanofluids. <i>Advances in Colloid and Interface Science</i> , 2012, 183-184, 30-45.	7.0	225
9	Natural Convection Flow Simulation of Nanofluid in a Square Cavity Using an Incompressible Generalized Lattice Boltzmann Method. <i>Defect and Diffusion Forum</i> , 2012, 329, 69-79.	0.4	14
10	Numerical investigation of natural convection heat transfer of nanofluids in a $\hat{\Gamma}$ shaped cavity. <i>Superlattices and Microstructures</i> , 2012, 52, 312-325.	1.4	26
11	Experimental study on the effect of TiO_2 -water nanofluid on heat transfer and pressure drop. <i>Experimental Thermal and Fluid Science</i> , 2012, 42, 107-115.	1.5	154
12	Effects of nanoparticles mean diameter on the particle migration and thermo-hydraulic behavior of laminar mixed convection of a nanofluid in an inclined tube. <i>Heat and Mass Transfer</i> , 2012, 48, 1297-1308.	1.2	11
13	Experimental thermal-hydraulic evaluation of CuO nanofluids in microchannels at various concentrations with and without suspension enhancers. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 2684-2691.	2.5	61
14	A time-dependent model to determine the thermal conductivity of a nanofluid. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	13
15	Non-intrusive method for thermal properties measurement of nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2013, 44, 498-503.	1.5	20
17	Critical Invalidation of Temperature Dependence of Nanofluid Thermal Conductivity Enhancement. <i>Journal of Heat Transfer</i> , 2013, 135, .	1.2	12
18	Thermal conductivity and phase-change properties of aqueous alumina nanofluid. <i>Energy Conversion and Management</i> , 2013, 67, 369-375.	4.4	49
19	Solid-liquid phase transition of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2013, 59, 29-34.	2.5	9

#	ARTICLE	IF	CITATIONS
20	Thermal conductivity of highly loaded aluminium nitride-poly(propylene glycol) dispersions. International Journal of Heat and Mass Transfer, 2013, 65, 592-598.	2.5	11
21	Electric permittivity and conductivity of nanofluids consisting of 15nm particles of alumina in base Milli-Q and Milli-Ro water at different temperatures. Journal of Chemical Thermodynamics, 2013, 66, 123-130.	1.0	11
22	Particle shape effect on the viscosity and thermal conductivity of ZnO nanofluids. International Journal of Refrigeration, 2013, 36, 2233-2241.	1.8	232
23	New anhydrous aluminum nitride dispersions as potential heat-transferring media. Powder Technology, 2013, 235, 717-722.	2.1	14
24	Experimental characterization and modeling of thermophysical properties of nanofluids at high temperature conditions for heat transfer applications. Powder Technology, 2013, 249, 516-529.	2.1	47
25	A linear regularity between thermal conductivity enhancement and fluid adsorption in nanofluids. International Journal of Thermal Sciences, 2013, 65, 189-195.	2.6	12
26	Investigation on the Effect of Nanofluid Parameters on MQL Grinding. Materials and Manufacturing Processes, 2013, 28, 436-442.	2.7	97
27	An optimal guarding scheme for thermal conductivity measurement using a guarded cut-bar technique, part 2 guarding mechanism. Applied Thermal Engineering, 2013, 59, 504-514.	3.0	10
28	Finite-volume lattice Boltzmann modeling of thermal transport in nanofluids. Computers and Fluids, 2013, 77, 56-65.	1.3	29
29	Investigation of viscosity and thermal conductivity of alumina nanofluids with addition of SDBS. Heat and Mass Transfer, 2013, 49, 1109-1115.	1.2	69
30	Effect of nanoparticles size on thermal performance of nanofluid in a trapezoidal microchannel-heat-sink. International Communications in Heat and Mass Transfer, 2013, 45, 155-161.	2.9	33
31	Experimental investigation of diameter effect on heat transfer performance and pressure drop of TiO ₂ -water nanofluid. Experimental Thermal and Fluid Science, 2013, 44, 520-533.	1.5	167
32	Thermal conductivity of nanofluids containing high aspect ratio fillers. International Journal of Heat and Mass Transfer, 2013, 64, 108-114.	2.5	70
33	An investigation into modelling thermal conductivity for alumina-water nanofluids. Powder Technology, 2013, 233, 234-244.	2.1	48
34	Enhancing Heat Transfer in a Cold Plate, Inserts vs. Nanofluids: Application to IT Servers. , 2013, , .		0
35	MHD Forced Convection Laminar Boundary Layer Flow of Alumina-Water Nanofluid over a Moving Permeable Flat Plate with Convective Surface Boundary Condition. Journal of Applied Mathematics, 2013, 2013, 1-8.	0.4	12
36	Molecular dynamics simulation of the specific heat capacity of water-Cu nanofluids. International Nano Letters, 2013, 3, 1.	2.3	46
37	Entropy Generation during Turbulent Flow of Zirconia-water and Other Nanofluids in a Square Cross Section Tube with a Constant Heat Flux. Entropy, 2014, 16, 6116-6132.	1.1	61

#	ARTICLE	IF	CITATIONS
38	Modeling Thermal Conductivity for Alumina-Water Nanofluids. Particulate Science and Technology, 2014, 32, 319-326.	1.1	10
39	Thermal Conductivity Enhancement of Aluminium Oxide Nanofluid in Ethylene Glycol. Applied Mechanics and Materials, 0, 660, 730-734.	0.2	11
40	Influence of the oxidation treatment and the average particle diameter of graphene for thermal conductivity enhancement. Journal of Industrial and Engineering Chemistry, 2014, 20, 1911-1915.	2.9	57
41	Magnetohydrodynamic buoyancy-driven heat transfer in a cylindricalâ€“triangular annulus filled by Cuâ€“water nanofluid using CVFEM. Journal of Molecular Liquids, 2014, 196, 370-380.	2.3	6
42	COMPARATIVE NUMERICAL STUDY OF SINGLE-PHASE AND TWO-PHASE MODELS FOR BIO-NANOFUID TRANSPORT PHENOMENA. Journal of Mechanics in Medicine and Biology, 2014, 14, 1450011.	0.3	60
43	The thermal conductivity of aluminaâ€“water nanofluids from the viewpoint of micromechanics. Microfluidics and Nanofluidics, 2014, 16, 19-28.	1.0	7
44	Heat transfer enhancement in parabolic trough collector tube using Al ₂ O ₃ /synthetic oil nanofluid. Renewable and Sustainable Energy Reviews, 2014, 33, 636-644.	8.2	245
45	The study of magnetic field implementation on cylinder quenched inâ€“boiling ferro-fluid. Applied Thermal Engineering, 2014, 64, 331-338.	3.0	19
46	Effects of tube flattening on the fluid dynamic and heat transfer performance of nanofluids. Advanced Powder Technology, 2014, 25, 1132-1141.	2.0	33
47	Numerical analysis of mixed convection heat transfer of Al ₂ O ₃ -water nanofluid in a ventilated cavity considering different positions of the outlet port. Powder Technology, 2014, 262, 71-81.	2.1	71
48	A lattice Boltzmann simulation of enhanced heat transfer of nanofluids. International Communications in Heat and Mass Transfer, 2014, 55, 113-120.	2.9	27
49	Thermal properties and rheological behavior of water based Al ₂ O ₃ nanofluid as a heat transfer fluid. Experimental Thermal and Fluid Science, 2014, 53, 227-235.	1.5	143
50	Experimental and Numerical Investigation on Natural Convection Heat Transfer of TiO ₂ â€“Water Nanofluids in a Square Enclosure. Journal of Heat Transfer, 2014, 136, .	1.2	67
51	Optimal concentration of alumina nanoparticles in molten Hitec salt to maximize its specific heat capacity. International Journal of Heat and Mass Transfer, 2014, 70, 174-184.	2.5	185
52	An optimal guarding scheme for thermal conductivity measurement using a guarded cut-bar technique, part 1 experimental study. Applied Thermal Engineering, 2014, 62, 850-857.	3.0	14
53	Estimation of the Mixed Convection Heat Transfer of a Rotating Cylinder in a Vented Cavity Subjected to Nanofluid by Using Generalized Neural Networks. Numerical Heat Transfer; Part A: Applications, 2014, 65, 165-185.	1.2	48
54	Modified Prediction Model for Thermal Conductivity of Spherical Nanoparticle Suspensions (Nanofluids) By Introducing Static and Dynamic Mechanisms. Industrial & Engineering Chemistry Research, 2014, 53, 18071-18080.	1.8	20
55	Heat transfer augmentation using nanofluids in an elliptic annulus with constant heat flux boundary condition. Case Studies in Thermal Engineering, 2014, 4, 32-41.	2.8	33

#	ARTICLE	IF	CITATIONS
56	Do temperature and nanoparticle size affect the thermal conductivity of alumina nanofluids?. Applied Physics Letters, 2014, 104, .	1.5	37
57	Experimental investigation of solidification and melting characteristics of composite PCMs for building heating application. Energy Conversion and Management, 2014, 86, 864-872.	4.4	83
58	On unexpected behavior of viscosity of diethylene glycol-based MgAl ₂ O ₄ nanofluids. RSC Advances, 2014, 4, 26057.	1.7	16
59	An explanation for anomalous thermal conductivity behaviour in nanofluids as measured using the hot-wire technique. Journal Physics D: Applied Physics, 2014, 47, 085501.	1.3	8
60	Multi-objective optimization of nanofluid flow in flat tubes using CFD, Artificial Neural Networks and genetic algorithms. Advanced Powder Technology, 2014, 25, 1608-1617.	2.0	62
61	Evaluation of Nanoparticle Shape Effect on a Nanofluid Based Flat-Plate Solar Collector Efficiency. Energy Exploration and Exploitation, 2015, 33, 659-676.	1.1	57
62	Review of magnetorheological fluids and nanofluids thermal behaviour. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012040.	0.3	7
63	Modeling and Optimization of Nanofluid Flow in Flat Tubes Using a Combination of CFD and Response Surface Methodology. Heat Transfer - Asian Research, 2015, 44, 377-395.	2.8	6
64	Experimental Analysis on Vapour Compression Refrigeration System Using Nanolubricant with HFC-134a Refrigerant. Nano Hybrids, 0, 9, 33-43.	0.3	18
65	Thermal performance of nanofluid in ducts with double forward-facing steps. Journal of the Taiwan Institute of Chemical Engineers, 2015, 47, 28-42.	2.7	71
66	Phase-dependent thermophysical properties of $\hat{1}\pm$ - and $\hat{1}^3$ -Al ₂ O ₃ in aqueous suspension. Journal of Industrial and Engineering Chemistry, 2015, 25, 99-104.	2.9	6
67	An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol. International Communications in Heat and Mass Transfer, 2015, 67, 173-175.	2.9	121
68	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG-water nanofluid. International Communications in Heat and Mass Transfer, 2015, 65, 47-51.	2.9	111
69	Intensification of forced convection heat transfer using biological nanofluid in a double-pipe heat exchanger. Experimental Thermal and Fluid Science, 2015, 66, 279-289.	1.5	119
70	Free convection heat transfer and fluid flow of Cu-water nanofluids inside a triangular-cylindrical annulus. Powder Technology, 2015, 277, 1-10.	2.1	17
71	Prediction of thermal conductivity of alumina water-based nanofluids by artificial neural networks. Powder Technology, 2015, 278, 1-10.	2.1	129
72	Numerical study of nanofluid flow in flat tubes fitted with multiple twisted tapes. Advanced Powder Technology, 2015, 26, 1609-1617.	2.0	45
73	A survey of practical equations for prediction of effective thermal conductivity of spherical-particle nanofluids. Journal of Molecular Liquids, 2015, 211, 712-733.	2.3	53

#	ARTICLE	IF	CITATIONS
74	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
75	Effect of temperature and sonication time on nanofluid thermal conductivity measurements by nano-flash method. <i>Applied Thermal Engineering</i> , 2015, 91, 181-190.	3.0	84
76	Experimental investigation of graphite nanolubricant used in a domestic refrigerator. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401557101.	0.8	33
77	Review on thermal properties of nanofluids: Recent developments. <i>Advances in Colloid and Interface Science</i> , 2015, 225, 146-176.	7.0	352
78	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
79	Permittivity and electric conductivity of aqueous alumina (40nm) nanofluids at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2015, 89, 189-196.	1.0	12
80	Measurement of latent heat of vaporization of nanofluids using calorimetric technique. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 122, 1341-1346.	2.0	5
81	An experimental study on the effect of diameter on thermal conductivity and dynamic viscosity of Fe/water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1817-1824.	2.0	265
82	Experimental study on heat transfer and rheological characteristics of hybrid nanofluids for cooling applications. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1194-1213.	1.3	38
83	A review on the applications of nanofluids in solar energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 584-598.	8.2	309
84	A Review of Thermal Conductivity Models for Nanofluids. <i>Heat Transfer Engineering</i> , 2015, 36, 1085-1110.	1.2	191
85	2D-Based Nanofluids: Materials Evaluation and Performance. , 2016, , .		0
86	Numerical investigation of natural convection heat transfer of nano-fluids in a micro-channel. <i>Journal of Fundamental and Applied Sciences</i> , 2016, 8, 448.	0.2	1
87	Boiling Heat Transfer of Alumina Nano-Fluids: Role of Nanoparticle Deposition on the Boiling Heat Transfer Coefficient. <i>Periodica Polytechnica: Chemical Engineering</i> , 2016, 60, 252-258.	0.5	68
88	Thermal conductivity enhancement of COOH-functionalized MWCNTs/ethylene glycol/water nanofluid for application in heating and cooling systems. <i>Applied Thermal Engineering</i> , 2016, 105, 716-723.	3.0	176
89	Modeling the effective thermal conductivity for disperse systems with high solid mass fractions. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 719-724.	2.5	6
90	Measurement of thermal conductivity of ZnO/TiO ₂ /EG hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 527-535.	2.0	312
92	Particle shape effects on some of the transport properties of tungsten oxide nanofluids. <i>Journal of Molecular Liquids</i> , 2016, 223, 828-835.	2.3	27

#	ARTICLE	IF	CITATIONS
93	- Molecular Dynamics Simulations for Waterâ€™Metal Interfacial Thermal Resistance. , 2016, , 46-73.		0
94	Nanoemulsions: Biobased Oil Nanoemulsion Preparation, Characterization, and Application. , 2016, , 714-729.		0
95	A review of thermophysical properties of water based composite nanofluids. Renewable and Sustainable Energy Reviews, 2016, 66, 654-678.	8.2	152
96	A review on nanofluids: Data-driven modeling of thermalphysical properties and the application in automotive radiator. Renewable and Sustainable Energy Reviews, 2016, 66, 596-616.	8.2	66
97	Experimental investigation of the effect of nanoparticle size on thermal conductivity of in-situ prepared silicaâ€™ethanol nanofluid. International Communications in Heat and Mass Transfer, 2016, 77, 148-154.	2.9	71
98	Enhancement of heat transfer by waterâ€™Al ₂ O ₃ and waterâ€™TiO ₂ nanofluids jet impingement in cooling hot steel surface. Journal of Experimental Nanoscience, 2016, 11, 1253-1273.	1.3	27
99	Numerical investigation on using of nanofluid in a water-cooled photovoltaic thermal system. Energy Conversion and Management, 2016, 122, 263-278.	4.4	301
100	A new dispersion model for thermal properties of nanofluids in flat tubes. International Journal of Thermal Sciences, 2016, 109, 114-122.	2.6	6
101	Effects of working temperature on thermo-physical properties and forced convection heat transfer of TiO ₂ nanofluids in water â€™ Ethylene glycol mixture. Applied Thermal Engineering, 2016, 106, 1190-1199.	3.0	97
102	Huge thermal conductivity enhancement in boron nitride â€™ ethylene glycol nanofluids. Materials Chemistry and Physics, 2016, 180, 250-255.	2.0	48
103	Numerical modeling of convective heat transfer of thermally developing nanofluid flows in a horizontal microtube. International Journal of Thermal Sciences, 2016, 109, 54-69.	2.6	27
104	Performance evaluation of a shell and tube heat exchanger operated with oxide based nanofluids. Heat and Mass Transfer, 2016, 52, 1425-1433.	1.2	18
105	A new semi-analytical model for effective thermal conductivity of nanofluids. Physics and Chemistry of Liquids, 2016, 54, 647-662.	0.4	3
106	Prediction of thermal conductivity of various nanofluids using artificial neural network. International Communications in Heat and Mass Transfer, 2016, 74, 69-75.	2.9	125
107	Size-dependent properties of silica nanoparticles for Pickering stabilization of emulsions and foams. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	129
108	A review on the heat and mass transfer phenomena in nanofluid coolants with special focus on automotive applications. Renewable and Sustainable Energy Reviews, 2016, 60, 1615-1633.	8.2	104
109	Role of temperature on thermal conductivity of nanofluids: a brief literature review. Heat and Mass Transfer, 2016, 52, 2575-2585.	1.2	20
110	Experimental investigation on heat transfer performance of TiO ₂ nanofluids in waterâ€™ethylene glycol mixture. International Communications in Heat and Mass Transfer, 2016, 73, 16-24.	2.9	71

#	ARTICLE	IF	CITATIONS
111	Natural convection of silica-water nanofluids based on experimental measured thermophysical properties: critical analysis. <i>Heat and Mass Transfer</i> , 2016, 52, 1649-1663.	1.2	16
112	Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al ₂ O ₃ nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 455-460.	2.0	153
113	Numerical investigations of laminar heat transfer and flow performance of Al ₂ O ₃ -water nanofluids in a flat tube. <i>International Journal of Heat and Mass Transfer</i> , 2016, 92, 268-282.	2.5	80
114	Rheological properties and thermal conductivity of AlN-poly(propylene glycol) suspensions. <i>Heat and Mass Transfer</i> , 2016, 52, 103-112.	1.2	5
115	Prediction and optimization of nanoclusters-based thermal conductivity of nanofluids: Application of Box-Behnken design (BBD). <i>Particulate Science and Technology</i> , 2017, 35, 265-276.	1.1	8
116	Considerations on the Thermophysical Properties of Nanofluids. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017, , 33-70.	1.4	6
117	Engineering Applications of Nanotechnology. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017, , .	1.4	7
118	Comparative study of thermo-physical properties of SiO ₂ and Al ₂ O ₃ nanoparticles dispersed in PAG lubricant. <i>Applied Thermal Engineering</i> , 2017, 116, 823-832.	3.0	74
119	An investigation into the effect of nanoclusters growth on perikinetic heat conduction mechanism in an oxide based nanofluid. <i>Powder Technology</i> , 2017, 311, 273-286.	2.1	10
120	Heat transfer augmentation in concentric elliptic annular by ethylene glycol based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 82, 29-39.	2.9	25
121	Review of interfacial layer's effect on thermal conductivity in nanofluid. <i>Heat and Mass Transfer</i> , 2017, 53, 2199-2209.	1.2	31
122	Numerical study of laminar-forced convection of Al ₂ O ₃ -water nanofluids between two parallel plates. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 785-796.	0.7	18
123	A study on corrosion effects of a water based nanofluid for enhanced thermal energy applications. <i>Sustainable Energy Technologies and Assessments</i> , 2017, 24, 39-44.	1.7	16
124	A review on thermophysical properties of nanofluids and heat transfer applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 638-670.	8.2	422
125	Effect of temperature and mass fraction on viscosity of crude oil-based nanofluids containing oxide nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2017, 82, 103-113.	2.9	49
127	Experimental investigation and model development for thermal conductivity of Al ₂ O ₃ -glycerol nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 85, 12-22.	2.9	67
128	Thermal conductivity and viscosity optimization of nanodiamond-Co ₃ O ₄ /EG (40:60) aqueous nanofluid using NSGA-II coupled with RSM. <i>Journal of Molecular Liquids</i> , 2017, 238, 545-552.	2.3	108
129	A review based on the effect and mechanism of thermal conductivity of normal nanofluids and hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2017, 240, 420-446.	2.3	232

#	ARTICLE	IF	CITATIONS
130	The effect of particle size and base liquid on thermo-physical properties of ethylene and diethylene glycol based copper micro- and nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 143-149.	2.9	20
131	An experimental study on the thermal conductivity and dynamic viscosity of TiO ₂ -SiO ₂ nanofluids in water: Ethylene glycol mixture. <i>International Communications in Heat and Mass Transfer</i> , 2017, 86, 181-189.	2.9	200
132	Metal oxide nanofluids: Review of formulation, thermo-physical properties, mechanisms, and heat transfer performance. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 226-255.	8.2	174
133	Engine cooling using Al ₂ O ₃ /water nanofluids. <i>Applied Thermal Engineering</i> , 2017, 115, 152-159.	3.0	65
134	Investigation of the use of nano-refrigerants to enhance the performance of an ejector refrigeration system. <i>Applied Energy</i> , 2017, 206, 1446-1463.	5.1	49
135	Experimental investigation of condensation heat transfer of R600a/POE/CuO nano-refrigerant in flattened tubes. <i>International Communications in Heat and Mass Transfer</i> , 2017, 88, 236-244.	2.9	35
136	Heat transfer and particle migration in nanofluid flow around a circular bluff body using a two-way coupled Eulerian-Lagrangian approach. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 282-293.	2.5	15
137	Thermal conductivity and viscosity of nanofluids: A review of recent molecular dynamics studies. <i>Chemical Engineering Science</i> , 2017, 174, 67-81.	1.9	126
138	Factors affecting the performance of hybrid nanofluids: A comprehensive review. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 630-646.	2.5	128
139	Fabrication and thermo-physical properties characterization of ethylene glycol-MoS ₂ heat exchange fluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 185-189.	2.9	3
140	An overview of current status of cutting fluids and cooling techniques of turning hard steel. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 380-394.	2.5	116
141	Thermal conductivity of diethylene glycol based magnesium-aluminum spinel (MgAl ₂ O ₄ -DG) nanofluids. <i>Heat and Mass Transfer</i> , 2017, 53, 1905-1909.	1.2	0
142	Effect of time dependent nanoclusters morphology on the thermal conductivity and heat transport mechanism of TiO ₂ based nanofluid. <i>Heat and Mass Transfer</i> , 2017, 53, 1873-1892.	1.2	6
143	Investigation of the effect of magnetic field on mass transfer parameters of CO ₂ absorption using Fe ₃ O ₄ -water nanofluid. <i>AIChE Journal</i> , 2017, 63, 2176-2186.	1.8	62
144	Nanotechnology applications for electrical transformers—A review. <i>Electric Power Systems Research</i> , 2017, 143, 573-584.	2.1	89
145	Nucleation rate and supercooling degree of water-based graphene oxide nanofluids. <i>Applied Thermal Engineering</i> , 2017, 115, 1226-1236.	3.0	38
146	Predicting the effects of magnesium oxide nanoparticles and temperature on the thermal conductivity of water using artificial neural network and experimental data. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 242-247.	1.3	100
147	Thermal conductivity enhancement of SiO ₂ -MWCNT (85:15%)EG hybrid nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 249-258.	2.0	140

#	ARTICLE	IF	CITATIONS
148	Evaluation of thermal conductivity of MgO-MWCNTs/EG hybrid nanofluids based on experimental data by selecting optimal artificial neural networks. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 85, 90-96.	1.3	210
149	Experimental studies of nanofluid thermal conductivity enhancement and applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 1239-1253.	8.2	244
150	Experimental study on thermal conductivity of ethylene glycol containing hybrid nano-additives and development of a new correlation. <i>Applied Thermal Engineering</i> , 2017, 110, 1111-1119.	3.0	290
151	Thermal conductivity and viscosity of Al ₂ O ₃ nanofluids for different based ratio of water and ethylene glycol mixture. <i>Experimental Thermal and Fluid Science</i> , 2017, 81, 420-429.	1.5	137
152	Enhancing Heat Transfer in Internal Combustion Engine by Applying Nanofluids. , 0, , .		0
153	Computational analysis of nanofluids: A review. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	17
154	Experimental and theoretical investigation of thermal conductivity of some water-based nanofluids. <i>Chemical Engineering Communications</i> , 2018, 205, 610-623.	1.5	9
155	Effects of sonication time and temperature on thermal conductivity of CuO/water and Al ₂ O ₃ /water nanofluids with and without surfactant. <i>Materials Today: Proceedings</i> , 2018, 5, 9004-9011.	0.9	34
156	Up to date review on the synthesis and thermophysical properties of hybrid nanofluids. <i>Journal of Cleaner Production</i> , 2018, 190, 169-192.	4.6	157
157	Numerical investigation of water evaporation from Fontainebleau sand in an environmental chamber. <i>Engineering Geology</i> , 2018, 234, 55-64.	2.9	26
158	Understanding the temperature dependence of thermo-physical properties of nanofluid suspensions using non-intrusive dynamic measurements. <i>Experimental Thermal and Fluid Science</i> , 2018, 94, 109-121.	1.5	11
159	Entropy generation of nanofluid flow in a microchannel heat sink. <i>Results in Physics</i> , 2018, 9, 615-624.	2.0	66
160	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
161	Novel Nanofluids Based on Magnetite Nanoclusters and Investigation on Their Cluster Size-Dependent Thermal Conductivity. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6918-6929.	1.5	22
162	Heat transfer and pressure drop performance of aluminaâ€“water nanofluid in a flat vertical tube of a radiator. <i>Chemical Engineering Communications</i> , 2018, 205, 257-268.	1.5	24
163	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
164	Model for predicting particle size evolution during nanoparticle aggregation in refrigerantâ€“oil mixture. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 91-104.	2.5	10
165	Thermal Transport and Challenges on Nanofluids Performance. , 0, , .		5

#	ARTICLE	IF	CITATIONS
166	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
167	Comprehensive review of principle factors for thermal conductivity and dynamic viscosity enhancement in thermal transport applications: An analytical tool approach. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 13-21.	2.9	10
168	A review of thermal conductivity of various nanofluids. <i>Journal of Molecular Liquids</i> , 2018, 265, 181-188.	2.3	296
169	Experimental investigation of heat transfer and friction factor of TiO ₂ -SiO ₂ nanofluids in water:ethylene glycol mixture. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 1361-1369.	2.5	50
170	Particle size effect on thermophysical properties of nanofluid and nanofluid based phase change materials: A review. <i>Journal of Molecular Liquids</i> , 2018, 265, 77-87.	2.3	79
171	Heat transfer and pressure drop correlations of nanofluids: A state of art review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 564-583.	8.2	57
172	A Review on Nanofluids: Fabrication, Stability, and Thermophysical Properties. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-33.	1.5	237
173	The effects of hybrid nano-powder of zinc oxide and multi walled carbon nanotubes on the thermal conductivity of an antifreeze. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 103, 361-366.	1.3	16
174	Effects of different coolants and cooling strategies on the cooling performance of the power lithium ion battery system: A review. <i>Applied Thermal Engineering</i> , 2018, 142, 10-29.	3.0	312
175	Experimental and numerical investigations of nano-additives enhanced paraffin in a shell-and-tube heat exchanger: A comparative study. <i>Applied Thermal Engineering</i> , 2018, 143, 777-790.	3.0	65
176	Application of artificial neural networks for viscosity of crude oil-based nanofluids containing oxides nanoparticles. <i>Journal of Petroleum Science and Engineering</i> , 2018, 168, 263-272.	2.1	20
177	Experimental investigation toward obtaining the effect of interfacial solid-liquid interaction and basefluid type on the thermal conductivity of CuO-loaded nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 151-162.	2.9	53
178	Thermo-physical properties of Cu-Zn-Al LDH nanofluid and its application in spray cooling. <i>Applied Thermal Engineering</i> , 2018, 141, 339-351.	3.0	54
179	Effect of interfacial thermal resistance and nanolayer on estimates of effective thermal conductivity of nanofluids. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 454-461.	2.8	25
180	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
181	A reliable model to estimate the effective thermal conductivity of nanofluids. <i>Heat and Mass Transfer</i> , 2019, 55, 397-411.	1.2	20
182	An updated review on application of nanofluids in heat exchangers for saving energy. <i>Energy Conversion and Management</i> , 2019, 198, 111886.	4.4	293
183	Thermal conductivity enhancement of nanofluids composed of rod-shaped gold nanoparticles: Insights from molecular dynamics. <i>Journal of Molecular Liquids</i> , 2019, 293, 111494.	2.3	40

#	ARTICLE	IF	CITATIONS
184	Viscosity and thermal conductivity comparative study for hybrid nanofluid in binary base fluids. Heat Transfer - Asian Research, 2019, 48, 3144-3161.	2.8	28
185	The Effect of Various Nanofluids on Absorption Intensification of CO ₂ /SO ₂ in a Single-Bubble Column. Processes, 2019, 7, 393.	1.3	24
186	An updated review on the influential parameters on thermal conductivity of nano-fluids. Journal of Molecular Liquids, 2019, 296, 111780.	2.3	125
187	Four objective optimization of aluminum nanoparticles/oil, focusing on thermo-physical properties optimization. Powder Technology, 2019, 356, 832-846.	2.1	15
188	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
189	The influence of porous wall on flame length and pollutant emissions in a premixed burner: an experimental study. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	2
190	New hybrid suspension of MEPCM/GO particles with enhanced dispersion stability and thermo-physical properties. Applied Energy, 2019, 255, 113827.	5.1	14
191	A General Hybrid GMDH-PNN Model to Predict Thermal Conductivity for Different Groups of Nanofluids. Theoretical Foundations of Chemical Engineering, 2019, 53, 318-331.	0.2	0
192	Gram-Scale Green Synthesis of Copper Nanowire Powder for Nanofluid Applications. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	8
193	Comparison of a theoretical and experimental thermal conductivity model on the heat transfer performance of Al ₂ O ₃ -SiO ₂ /water hybrid-nanofluid. International Journal of Heat and Mass Transfer, 2019, 140, 598-605.	2.5	97
194	Corrosion Evaluation of 316L Stainless Steel in CNT-Water Nanofluid: Effect of CNTs Loading. Materials, 2019, 12, 1634.	1.3	15
195	Computational study of unsteady couple stress magnetic nanofluid flow from a stretching sheet with Ohmic dissipation. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2019, 233, 49-63.	0.5	16
196	A review of influence of nanoparticle synthesis and geometrical parameters on thermophysical properties and stability of nanofluids. Thermal Science and Engineering Progress, 2019, 11, 334-364.	1.3	55
197	Experimental investigation of thermophysical properties of R718 based nanofluids at low temperatures. Heat and Mass Transfer, 2019, 55, 2769-2784.	1.2	10
198	Interaction of thermal radiation in hydromagnetic viscoelastic nanomaterial subject to gyrotactic microorganisms. Applied Nanoscience (Switzerland), 2019, 9, 1193-1204.	1.6	22
199	Surfactant prevented growth and enhanced thermophysical properties of CuO nanofluid. Journal of Molecular Liquids, 2019, 283, 550-557.	2.3	33
200	Experimental investigation toward obtaining nanoparticles' surficial interaction with basefluid components based on measuring thermal conductivity of nanofluids. International Communications in Heat and Mass Transfer, 2019, 103, 72-82.	2.9	54
201	Surfactant-free synthesis and experimental analysis of Mn-doped ZnO-glycerol nanofluids: an ultrasonic and thermal study. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	10

#	ARTICLE	IF	CITATIONS
202	Hybrid GMDH-type neural network to predict fluid surface tension, shear stress, dynamic viscosity & sensitivity analysis based on empirical data of iron(II) oxide nanoparticles in light crude oil mixture. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 526, 120948.	1.2	16
203	Performance Study and Efficiency Improvement of Ice Slurry Production by Scraped-Surface Method. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 74.	1.3	9
204	Evaluation of Heat Transfer Mechanisms in Heat Pipe Charged with Nanofluid. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 5195-5213.	1.7	12
205	Experimental investigation of thermal conductivity behavior of MWCNTS-Al ₂ O ₃ /ethylene glycol hybrid Nanofluid: providing new thermal conductivity correlation. <i>Heat and Mass Transfer</i> , 2019, 55, 2329-2339.	1.2	27
206	Investigating the morphology and thermophysical properties of Al ₂ O ₃ and CuO nanofluids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 577, 012052.	0.3	11
207	Nanoparticle transport phenomena in confined flows. <i>Advances in Heat Transfer</i> , 2019, 51, 55-129.	0.4	8
208	Influence of heat flux and Reynolds number on the entropy generation for different types of nanofluids in a hexagon microchannel heat sink. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 501-513.	1.7	36
209	Influence of nanofluids application on contact length during hard turning. <i>Materials and Manufacturing Processes</i> , 2019, 34, 30-38.	2.7	19
210	A novel method to measure thermal conductivity of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2019, 130, 978-988.	2.5	31
211	Experimental thermal energy assessment of a liquid metal eutectic in a microchannel heat exchanger equipped with a (10 ⁴ Hz/50 ⁴ Hz) resonator. <i>Applied Thermal Engineering</i> , 2019, 148, 578-590.	3.0	41
212	Simulating of heat transfer enhancement via a water-based nanofluid in enclosures with curved side walls. <i>International Communications in Heat and Mass Transfer</i> , 2019, 100, 118-132.	2.9	9
213	Data-driven methods for estimating the effective thermal conductivity of nanofluids: A comprehensive review. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 1211-1231.	2.5	44
214	Thermophysical Properties of Nanofluids. , 2019, , 113-196.		2
215	Investigation of the Chain Formation Effect on Thermal Conductivity of Magnetorheological Fluids. <i>Journal of Thermophysics and Heat Transfer</i> , 2020, 34, 3-12.	0.9	8
216	Internal convective heat transfer of nanofluids in different flow regimes: A comprehensive review. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 538, 122783.	1.2	53
217	Boron nitride nanotubes-based nanofluids with enhanced thermal properties for use as heat transfer fluids in solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110266.	3.0	51
218	A Review: Emphasizing the Nanofluids Use in PV/T Systems. <i>IEEE Access</i> , 2020, 8, 58227-58249.	2.6	26
219	Dual solutions of nanaofluid forced convective flow with heat transfer and porous media past a moving surface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 551, 124075.	1.2	2

#	ARTICLE	IF	CITATIONS
220	Locally weighted moving regression: A non-parametric method for modeling nanofluid features of dynamic viscosity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124124.	1.2	8
221	On the flow patterns and thermal behaviour of hybrid nanofluid flow inside a microchannel in presence of radiative solar energy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1425-1442.	2.0	70
222	Experimental investigation of a vapour compression refrigeration system using R134a/Nano-oil mixture. <i>International Journal of Refrigeration</i> , 2020, 112, 21-36.	1.8	46
223	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
224	Mathematical and artificial brain structure-based modeling of heat conductivity of water based nanofluid enriched by double wall carbon nanotubes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 120766.	1.2	12
225	Measuring Thermal Diffusivity of Dilute Nanofluids Using Interferometry-Based Inverse Heat Transfer Approach. <i>Journal of Thermophysics and Heat Transfer</i> , 2020, 34, 476-487.	0.9	3
226	WHICH PARAMETER SHOULD BE USED IN EVALUATING NANOFLUID FLOWS: REYNOLDS NUMBER, VELOCITY, MASS FLOW RATE OR PUMPING POWER?. <i>Heat Transfer Research</i> , 2020, 51, 447-497.	0.9	2
227	Enhancing Thermophysical Characteristics and Heat Transfer Potential of TiO ₂ /Water Nanofluid. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	23
228	Application of Artificial Neural Networks for Accurate Prediction of Thermal and Rheological Properties of Nanofluids. , 0, , .		0
229	Nanofluid-based pulsating heat pipe for thermal management of lithium-ion batteries for electric vehicles. <i>Journal of Energy Storage</i> , 2020, 32, 101715.	3.9	69
230	Assessment of Fe ₃ O ₄ water nanofluid for enhancing laminar convective heat transfer in a car radiator. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 841-853.	2.0	6
231	Performance evaluation of Al ₂ O ₃ nanofluid as an enhanced heat transfer fluid. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402095227.	0.8	19
232	Experimental Investigation on Evaluation of Thermal Performance of Solar Heating System Using Al ₂ O ₃ Nanofluid. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5521.	1.3	5
233	Analysis of empirical correlations of thermophysical properties of water suspensions of aluminum oxide nanoparticles. <i>Thermophysics and Aeromechanics</i> , 2020, 27, 161-179.	0.1	2
234	A review on nanofluid: preparation, stability, thermophysical properties, heat transfer characteristics and application. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	120
235	Efficiency and effectiveness enhancement of an intercooler of two-stage air compressor by low-cost Al ₂ O ₃ /water nanofluids. <i>Heat Transfer</i> , 2020, 49, 2577-2594.	1.7	4
236	Performance effecting parameters of hybrid nanofluids. , 2020, , 179-213.		18
237	History and introduction. , 2020, , 1-48.		3

#	ARTICLE	IF	CITATIONS
238	A review on the thermal performance of nanofluid inside circular tube with twisted tape inserts. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402092489.	0.8	12
239	On Heat Transfer enhancement in Diesel Engine Cylinder Head Using Al_2O_3 /water nanofluid with different nanoparticle sizes. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781401989750.	0.8	6
240	A brief study on effects of nano cutting fluids in hard turning of AISI 4340 steel. <i>Materials Today: Proceedings</i> , 2020, 26, 3094-3099.	0.9	8
241	Effect of ball milling on the thermal conductivity and viscosity of Indian coal fly ash nanofluid. <i>Heat Transfer</i> , 2020, 49, 4475-4490.	1.7	12
242	Study of thermal conductivity of synthesized Al_2O_3 -water nanofluid by pulsed laser ablation in liquid. <i>Journal of Molecular Liquids</i> , 2020, 304, 112694.	2.3	56
243	Metal oxide nanofluids in electronic cooling: a review. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4381-4398.	1.1	43
244	Statistical analysis of enriched water heat transfer with various sizes of MgO nanoparticles using artificial neural networks modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 554, 123950.	1.2	11
245	Experimental evaluation and artificial neural network modeling of thermal conductivity of water based nanofluid containing magnetic copper nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 551, 124127.	1.2	57
246	A case study on internal flow patterns of the two-phase closed thermosyphon (TPCT). <i>Case Studies in Thermal Engineering</i> , 2020, 18, 100586.	2.8	13
247	Evaluation of thermal conductivity of deionized water containing SDS-coated NiO nanoparticles under the influences of constant and alternative varied magnetic fields. <i>Powder Technology</i> , 2020, 367, 143-156.	2.1	7
248	Measurement and modeling of the thermal conductivity of nanorefrigerants with low volume concentrations. <i>Thermochimica Acta</i> , 2020, 688, 178603.	1.2	6
249	Thermal and Hydraulic Performance of CuO/Water Nanofluids: A Review. <i>Micromachines</i> , 2020, 11, 416.	1.4	27
250	Consequence of nanoparticles size on heat transfer characteristics of a radiator. <i>Powder Technology</i> , 2020, 367, 213-224.	2.1	10
251	An artificial neural network approach for the prediction of dynamic viscosity of MXene-palm oil nanofluid using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1175-1186.	2.0	41
252	An efficient enhancement in thermal conductivity of water-based hybrid nanofluid containing MWCNTs-COOH and Ag nanoparticles: experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3331-3343.	2.0	53
253	Improved performance of a nanorefrigerant-based vapor compression refrigeration system: A new alternative. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021, 235, 106-123.	0.8	14
254	On-demand heat transfer augmentation using magnetically triggered ferrofluid containing eco-friendly treated $\text{CoFe}_2\text{O}_4/\text{rGO}$. <i>Powder Technology</i> , 2021, 378, 468-486.	2.1	11
255	Numerical simulation of nanoparticles size/aspect ratio effect on thermal conductivity of nanofluids using lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105033.	2.9	18

#	ARTICLE	IF	CITATIONS
256	Experimental and simulation study of liquid coolant battery thermal management system for electric vehicles: A review. <i>International Journal of Energy Research</i> , 2021, 45, 6495-6517.	2.2	76
257	Experimental determination of thermophysical properties of Indonesian fly-ash nanofluid for heat transfer applications. <i>Particulate Science and Technology</i> , 2021, 39, 597-606.	1.1	29
258	Forecasting of water thermal conductivity enhancement by adding nano-sized alumina particles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 1791-1800.	2.0	16
259	Thermal performance analysis of a 1-5 TEMA E shell and coil heat exchanger operating with SWCNT-water nanofluid with varied nanoparticle concentration. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	3
260	Recent Progress on Stability and Thermo-Physical Properties of Mono and Hybrid towards Green Nanofluids. <i>Micromachines</i> , 2021, 12, 176.	1.4	24
261	Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. <i>Fluids</i> , 2021, 6, 65.	0.8	8
262	A comprehensive investigation in determination of nanofluids thermophysical properties. <i>Journal of the Indian Chemical Society</i> , 2021, 98, 100037.	1.3	13
263	Thermophysical Properties for ZnO-Water Nanofluid: Experimental Study. <i>Materials Science Forum</i> , 0, 1025, 9-14.	0.3	0
264	Thermal Conductivity and Viscosity: Review and Optimization of Effects of Nanoparticles. <i>Materials</i> , 2021, 14, 1291.	1.3	71
265	The role of nanofluids on enhancing the solar energy performance with focusing on the mining industry. <i>International Journal of Energy Research</i> , 2021, 45, 14414-14435.	2.2	3
266	A correlation approach for the calculation of thermal conductivity of nanofluids as a function of dynamic viscosity. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	2
267	Viscosity and thermal conductivity correlations for various nanofluids based on different temperature and nanoparticle diameter. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	11
268	Cold start analysis of an engine coolant-MWCNT nanofluid: Synthesis and viscosity behavior under shear stress. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2022, 236, 366-380.	1.1	1
269	Smart tracking of the influence of alumina nanoparticles on the thermal coefficient of nanosuspensions: application of LS-SVM methodology. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 2113-2128.	1.6	28
270	Study of the effect of preparation parameters on thermal conductivity of metal oxide nanofluids using Taguchi method. <i>Journal of Energy Systems</i> , 2021, 5, 149-164.	0.8	4
271	Statistical analysis of thermal conductivity experimentally measured in water-based nanofluids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	1.0	3
272	Role of hybrid-nanofluid in heat transfer enhancement – A review. <i>International Communications in Heat and Mass Transfer</i> , 2021, 125, 105341.	2.9	140
273	Influence of amphoteric and anionic surfactants on stability, surface tension, and thermal conductivity of Al ₂ O ₃ /water nanofluids. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100995.	2.8	28

#	ARTICLE	IF	CITATIONS
274	A comprehensive experimental investigation of dynamic viscosity of MWCNT-WO ₃ /water-ethylene glycol antifreeze hybrid nanofluid. <i>Journal of Molecular Liquids</i> , 2021, 333, 115986.	2.3	38
275	Flow and heat transportation in peristalsis of graphene-Fe ₃ O ₄ /H ₂ O hybrid nanofluid with variable effective viscosity. <i>Physica Scripta</i> , 2021, 96, 115005.	1.2	5
276	Nanodiamond Colloids heat transfer behavior in electronics thermal management – an experimental study. <i>Experimental Heat Transfer</i> , 2022, 35, 780-796.	2.3	8
277	Synthesis and Application of Ternary Nanofluid for Photovoltaic-Thermal System: Comparative Analysis of Energy and Exergy Performance with Single and Hybrid Nanofluids. <i>Energies</i> , 2021, 14, 4434.	1.6	32
278	Preparation of binary nanofluid with heat transfer additives by particle surface functionalisation. <i>Emergent Materials</i> , 2021, 4, 1649-1664.	3.2	5
279	Capabilities of γ -Al ₂ O ₃ , δ -Al ₂ O ₃ , and bentonite dry powders used in flat plate solar collector for thermal energy storage. <i>Renewable Energy</i> , 2021, 173, 704-720.	4.3	24
280	State-of-the-art review on water-based nanofluids for low temperature solar thermal collector application. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111220.	3.0	35
281	Hybrid Nanofluids as Renewable and Sustainable Colloidal Suspensions for Potential Photovoltaic/Thermal and Solar Energy Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 737033.	1.8	27
282	Thermal efficiency analysis of a nanofluid-based micro combined heat and power system using CNG and biogas. <i>Energy</i> , 2021, 231, 120870.	4.5	7
283	Influence of particle size on thermal conductivity and dynamic viscosity of water-based Indian coal flyash nanofluid. <i>Heat Transfer</i> , 2022, 51, 413-433.	1.7	8
284	A comprehensive statistical approach for determining the effect of two non-ionic surfactants on thermal conductivity and density of Al ₂ O ₃ -water-based nanofluids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 626, 127099.	2.3	16
285	A comprehensive review on the application of nanofluid in heat pipe based on the machine learning: Theory, application and prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111434.	8.2	50
286	Thermophysical properties of nanofluids. , 2022, , 39-96.		2
287	A Review on Thermophysical Properties and Nusselt Number Behavior of Al ₂ O ₃ Nanofluids in Heat Exchangers. <i>Journal of Thermal Science</i> , 2021, 30, 418-431.	0.9	6
288	Stability, thermophysical properties of nanofluids, and applications in solar collectors: A review. <i>AIMS Materials Science</i> , 2021, 8, 659-684.	0.7	16
289	Effect of base fluids on thermo-physical properties of SiO ₂ nanofluids and development of new correlations. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	6
290	Synthesis and Characterization of Nanofluids: Thermal Conductivity, Electrical Conductivity and Particle Size Distribution. <i>Green Energy and Technology</i> , 2020, , 1-49.	0.4	4
291	Numerical Modeling of Nanofluid Thermal Conductivity: The Effect of Nanonetwork on Thermal Transport Behavior. <i>Journal of Heat Transfer</i> , 2019, 141, .	1.2	5

#	ARTICLE	IF	CITATIONS
292	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Al ₂ O ₃ -EG) Nanofluids. Acta Physica Polonica A, 2015, 128, 240-242.	0.2	16
293	Experimental study of natural convective heat transfer of water-ZrO ₂ nanofluids in vertical sub channel. Contemporary Engineering Sciences, 0, 8, 1593-1605.	0.2	7
294	Thermal Conductivity of Nanofluids-A Comprehensive Review. International Journal of Thermofluid Science and Technology, 2020, 7, .	0.3	8
295	The Synthesis of Solvent-Free TiO ₂ Nanofluids through Surface Modification. Soft Nanoscience Letters, 2011, 01, 46-50.	0.8	10
296	The Interfacial Layer Effect on Thermal Conductivity of Nano-Colloidal Dispersions. International Journal of Applied Physics and Mathematics, 2014, 4, 1-4.	0.3	6
297	The Efficiency of Nanofluid Use in the Heat Supply System of a House with a Geothermal Heat Pump. , 2021, , .		4
298	Generation of entropy of turbulent EG-water-Al ₂ O ₃ hybrid nanofluid flow through a channel of rectangular cross-section. International Journal of Ambient Energy, 2022, 43, 6017-6027.	1.4	3
299	A review on recent development of nanofluid utilization in shell & tube heat exchanger for saving of energy. Materials Today: Proceedings, 2022, 54, 579-589.	0.9	12
300	Simulation of Alumina/Water Nanofluid Flow in a Micro-Heatsink With Wavy Microchannels: Impact of Two-Phase and Single-Phase Nanofluid Models. Frontiers in Energy Research, 2021, 9, .	1.2	0
301	Influence of surfactants on thermal performance of Al ₂ O ₃ /water nanofluids in a two-phase closed thermosyphon. Case Studies in Thermal Engineering, 2021, 28, 101586.	2.8	4
302	Nanofluids as Quenchants in Industrial Heat Treatment. , 2014, , 324-336.		1
303	Experimental Investigation of Coupling Effects between Particle Size and Temperature on the Thermal Conductivity of Alumina Nanofluids. Journal of ILASS-Korea, 2014, 19, 174-181.	0.1	0
304	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Al ₂ O ₃ -EG) Nanofluids. Acta Physica Polonica A, 2015, 128, 239-242.	0.2	3
305	THERMAL AND HYDRODYNAMIC ANALYSIS OF NANOFUIDS AT LOW CONCENTRATIONS IN A MICROCHANNEL HEAT SINK. , 2016, , .		1
306	Performance evaluation of nanofluids in solar thermal and solar photovoltaic systems: A comprehensive review. Renewable and Sustainable Energy Reviews, 2022, 153, 111738.	8.2	73
307	Instruments to Measure Thermal Conductivity of Engineering Materials - A Brief Review. Journal of Advanced Research in Mechanical Engineering and Technology, 2020, 07, 16-25.	0.4	0
308	Simulation of Nanofluid Flow in a Micro-Heat Sink With Corrugated Walls Considering the Effect of Nanoparticle Diameter on Heat Sink Efficiency. Frontiers in Energy Research, 2021, 9, .	1.2	4
309	MHD Laminar Boundary Layer Flow of Radiative Fe-Casson Nanofluid: Stability Analysis of Dual Solutions. Chinese Journal of Physics, 2022, 76, 172-186.	2.0	13

#	ARTICLE	IF	CITATIONS
310	Nanofluids: Key parameters to enhance thermal conductivity and its applications. Applied Thermal Engineering, 2022, 207, 118202.	3.0	94
311	Stability Analysis of Boundary Layer Flow and Heat Transfer of Fe ₂ O ₃ and Fe-Water Base Nanofluid Üzer a Stretching/Shrinking Sheet with Radiation Effect. Engineering, Technology & Applied Science Research, 2022, 12, 8114-8122.	0.8	11
312	Thermal, physical, mechanical and microstructural properties of dredged sediment-based ceramic tiles as substituent of kaolin. Environmental Science and Pollution Research, 2022, 29, 26792-26809.	2.7	5
314	Review on mechanism and parameters affecting thermal conductivity of nanofluid. Materials Today: Proceedings, 2022, 56, 2031-2037.	0.9	13
315	Energetic thermo-physical analysis of MLP-RBF feed-forward neural network compared with RLS Fuzzy to predict CuO/liquid paraffin mixture properties. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 764-779.	1.5	7
316	A review of the use of nanofluids as heat-transfer fluids in parabolic-trough collectors. Applied Thermal Engineering, 2022, 211, 118346.	3.0	42
317	A survey study of the correlations developed for single-phase heat transfer and pressure drop using nanofluids. Journal of Thermal Analysis and Calorimetry, 0, , .	2.0	1
318	Reiner-Rivlin nanofluid over a rotating disk flow. Chemical Physics Letters, 2022, 797, 139556.	1.2	4
319	Experimental investigation of stability, optical property and thermal conductivity of water based MWCNT- Al ₂ O ₃ -ZnO mono, binary and ternary nanofluid. Synthetic Metals, 2022, 287, 117058.	2.1	23
320	Amelioration of thermodynamic performance and environmental analysis of an integrated solar power generation system with storage capacities using optimized ternary hybrid nanofluids. Journal of Energy Storage, 2022, 51, 104531.	3.9	8
321	Effect of particle size on thermophysical and heat transfer properties of Ag nanofluid in a radiator â€“ an experimental investigation. Inorganic and Nano-Metal Chemistry, 2023, 53, 78-92.	0.9	11
322	Spiral Isâ€± EÄŸanjÄŸrÄŸnde FarklÄŸ Su-Al ₂ O ₃ NanoakÄŸÄŸkan KarÄŸÄŸmlarÄŸnÄŸn Termal DavranÄŸÄŸlarÄŸnÄŸn KarÄŸÄŸlaÄŸtÄŸ Bilecik ÄŸzeyh Edebali ÄŸeniversitesi Fen Bilimleri Dergisi, 0, , .	0.1	0
323	Hydrogen Containing Nanofluids in the Spark Engineâ€™s Cylinder Head Cooling System. Energies, 2022, 15, 59.	1.6	7
324	Thermal performance of stable SiO ₂ nanofluids and regression correlations to estimate their thermophysical properties. Journal of the Indian Chemical Society, 2022, 99, 100461.	1.3	5
325	Recent progresses and challenges in cooling techniques of concentrated photovoltaic thermal system: A review with special treatment on phase change materials (PCMs) based cooling. Solar Energy Materials and Solar Cells, 2022, 241, 111739.	3.0	27
326	Overview of Nanofluid Applications and Its Sustainability. Green Energy and Technology, 2022, , 45-54.	0.4	2
327	Experimental Investigation of Stabilizers of Nanofluid in the Pool Boiling Process. Heat Transfer Engineering, 2023, 44, 442-460.	1.2	2
328	Thermal management of lithium-ion batteries with nanofluids and nano-phase change materials: a review. Journal of Power Sources, 2022, 539, 231605.	4.0	15

#	ARTICLE	IF	CITATIONS
329	Numerical modeling of nanofluidsâ€™ flow and heat transfer. , 2022, , 151-202.		0
330	Numerical Investigation on the Effect of the Nanofluid, New Vortex Generators, and Combination of Them on Heat Transfer and Pressure Drop in the Parallel Planes. SSRN Electronic Journal, 0, , .	0.4	0
331	Correlations to estimate electrical conductivity, thermal conductivity and viscosity of cobalt nanofluid. Heat and Mass Transfer, 2023, 59, 95-112.	1.2	2
332	The pressing need for green nanofluids: A review. Journal of Environmental Chemical Engineering, 2022, 10, 107940.	3.3	10
333	EVALUATION OF THE THERMAL CONDUCTIVITY OF NANOFLUIDS USING STATISTICAL ANALYSIS METHODS. Nanoscience and Technology, 2022, 13, 45-61.	0.6	3
334	Viscosity and Thermal Conductivity of Cobalt and Silica Nanofluid in an Optimum Mixture of Glycerol and Water. Colloid Journal, 2022, 84, 208-221.	0.5	4
336	Experimental Analysis of Thermal Behavior of a Lithium-Ion Battery using Constant Voltage under Different Cooling Conditions. International Journal of Electrochemical Science, 0, , ArticleID:220810.	0.5	0
337	The recent progress of nanofluids and the state-of-art thermal devices. , 0, 13, 82-89.		1
338	Exergy and environmental analysis of an active greenhouse dryer with Al ₂ O ₃ nano-embedded latent heat thermal storage system: An experimental study. Applied Thermal Engineering, 2022, 217, 119167.	3.0	22
339	Role of hybrid nanofluids on the performance of the plate heat exchanger: Experimental study. Materials Today: Proceedings, 2022, 68, 962-967.	0.9	1
340	A Review on Heat Transfer Modulation using Experimental Approach. Transactions of the Indian Institute of Metals, 0, , .	0.7	0
341	Progress in the proton exchange membrane fuel cells (PEMFCs) water/thermal management: From theory to the current challenges and real-time fault diagnosis methods. , 2022, 1, 100002.		40
342	Hybrid Nanofluid Thermal Conductivity and Optimization: Original Approach and Background. Nanomaterials, 2022, 12, 2847.	1.9	15
343	Does Particle Size in Nanofluid Synthesis Affect Their Performance as Heat Transfer Fluid in Flat Plate Collectors?â€™An Energy and Exergy Analysis. Sustainability, 2022, 14, 10429.	1.6	2
344	A brief review and comparative evaluation of nanofluid application in solar parabolic trough and flat plate collectors. Energy Reports, 2022, 8, 156-166.	2.5	20
345	Preparation, Characterization, Stability and Thermophysical Properties of Bio, Non-Bio (Metallic and) Tj ETQq1 1 0.784314 rgBT /Overbo	1.4	1
346	Influence of Particle Size on Turbulent Flow Using Mono and Hybrid Nanofluids in a Heat Exchangerâ€™An Experimental Investigation. Lecture Notes in Mechanical Engineering, 2023, , 235-258.	0.3	0
347	Preparation of cobalt oxide and tin dioxide nanofluids and investigation of their thermophysical properties. Microfluidics and Nanofluidics, 2022, 26, .	1.0	3

#	ARTICLE	IF	CITATIONS
348	EFFECTS OF NANOPARTICLE SIZE ON PROPERTIES OF NANOFLUID AND HEAT TRANSFER ENHANCEMENT IN SPIRAL EXCHANGER USING TURBULATORS. <i>Nanoscience and Technology</i> , 2023, 14, 65-90.	0.6	2
349	Impact of MXene nanoparticle on thermohydraulic performance in a microchannel heat sink: effect of nanoparticle size. <i>Microfluidics and Nanofluidics</i> , 2023, 27, .	1.0	1
350	Numerical analysis of two-phase nanofluid flow on the thermal efficiency of a circular heat sink for cooling of LEDs. <i>Engineering Analysis With Boundary Elements</i> , 2023, 148, 22-33.	2.0	1
351	Flow Characteristics of Heat and Mass for Nanofluid under Different Operating Temperatures over Wedge and Plate. <i>Micromachines</i> , 2022, 13, 2080.	1.4	6
352	A Review on Non-Newtonian Nanofluid Applications for Convection in Cavities under Magnetic Field. <i>Symmetry</i> , 2023, 15, 41.	1.1	6
353	Forced convection of nanofluids in metal foam: An essential review. <i>International Journal of Thermal Sciences</i> , 2023, 187, 108156.	2.6	8
354	The stability and thermophysical properties of Al ₂ O ₃ -graphene oxide hybrid nanofluids for solar energy applications: Application of robust autoregressive modern machine learning technique. <i>Solar Energy Materials and Solar Cells</i> , 2023, 253, 112207.	3.0	38
355	A comprehensive laboratory measurement on the thermal characteristics of Ag-Cu-tungsten oxide/water nanofluid in mono, hybrid and ternary cases and presenting a new correlation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 143, 104682.	2.7	3
356	Machining of nickel-based super alloy inconel 718 using alumina nanofluid in powder mixed electric discharge machining. <i>Materials Research Express</i> , 2023, 10, 036501.	0.8	1
357	Particle-Size Effect of Nanoparticles on the Thermal Performance of Solar Flat Plate Technology. <i>Sustainability</i> , 2023, 15, 5271.	1.6	0
358	Magnetorheological fluids: A concise review of composition, physicochemical properties, and models. <i>Journal of Intelligent Material Systems and Structures</i> , 2023, 34, 1864-1884.	1.4	3
359	Numerical Simulation of Nanofluid-Based Parallel Cooling Photovoltaic Thermal Collectors. <i>Journal of Thermal Science</i> , 0, , .	0.9	0
360	A brief review of nanofluids utilization in heat transfer devices for energy saving. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	1
362	Reliable prediction of thermophysical properties of nanofluids for enhanced heat transfer in process industry: a perspective on bridging the gap between experiments, CFD and machine learning. <i>Journal of Thermal Analysis and Calorimetry</i> , 2023, 148, 5859-5881.	2.0	5
364	The thermophysical properties, configurations and applications of nanofluids on solar PV/T system: A review. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0
365	Nanotechnology in concentrated solar power technology. , 2023, , 43-73.		0
370	Thermophysical Characteristics of Nanofluids: A Review. , 2023, , 337-362.		1
371	Enhance the direct absorption of solar radiation use of MWCNT nanofluids: Experimental analysis. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0

#	ARTICLE	IF	CITATIONS
376	Futuristic methods of fuel cell cooling. , 2023, , 523-539.		0
377	Battery Thermal Management of Lithium Prismatic Cell Battery by Using Different Coolants. , 0, , .		0
381	Nanoparticle-enhanced coolants in machining: mechanism, application, and prospects. Frontiers of Mechanical Engineering, 2023, 18, .	2.5	6
383	Heat transfer enhancement analysis using TiO ₂ -water nanofluid in shell and tube heat exchanger with doughnut and flower segmental baffles. AIP Conference Proceedings, 2024, , .	0.3	0