

Review and Comparison of Nanofluid Thermal Conductivity Enhancements

Heat Transfer Engineering

29, 432-460

DOI: 10.1080/01457630701850851

Citation Report

#	ARTICLE	IF	CITATIONS
1	EXperimental study of convective heat transfer and pressure loss of SiO ₂ /water nanofluids Part 2: Imposed uniform heat flux - Energetic performance criterion. , 2008, , .		3
2	Nanofluids: Analysis of Heat Transfer Mechanisms and Clustering. , 2008, , .		0
3	Continuous Synthesis of Surface-Modified Metal Oxide Nanoparticles Using Supercritical Methanol for Highly Stabilized Nanofluids. Chemistry of Materials, 2008, 20, 6301-6303.	3.2	63
4	Particle shape effects on thermophysical properties of alumina nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	707
5	Heat Transfer and Rheological Behaviour of Nanofluids – A Review. Advances in Transport Phenomena, 2009, , 135-177.	0.5	44
6	Thermal Conductivity and Viscosity Measurements of Water-Based TiO ₂ Nanofluids. International Journal of Thermophysics, 2009, 30, 1213-1226.	1.0	290
7	Correction and comment on “thermal conductance of nanofluids: is the controversy over?”. Journal of Nanoparticle Research, 2009, 11, 511-512.	0.8	30
8	Effect of reduced specific heats of nanofluids on single phase, laminar internal forced convection. International Journal of Heat and Mass Transfer, 2009, 52, 1240-1244.	2.5	116
9	Heat transfer to a silicon carbide/water nanofluid. International Journal of Heat and Mass Transfer, 2009, 52, 3606-3612.	2.5	156
10	Synthesis and thermal conductivity of Cu ₂ O nanofluids. International Journal of Heat and Mass Transfer, 2009, 52, 4371-4374.	2.5	122
11	Review of nanofluids for heat transfer applications. Particuology, 2009, 7, 141-150.	2.0	669
12	A benchmark study on the thermal conductivity of nanofluids. Journal of Applied Physics, 2009, 106, .	1.1	897
13	An Experimental Study of Surface Tension-Dependent Pool Boiling Characteristics of Carbon Nanotubes-Nanofluids. , 2009, , .		21
14	Analysis of Heat Transfer Enhancement in Minichannel Heat Sinks With Turbulent Flow Using H ₂ O-Al ₂ O ₃ Nanofluids. Journal of Electronic Packaging, Transactions of the ASME, 2009, 131, .	1.2	4
15	Functionalized Graphene Sheet Colloids for Enhanced Fuel/Propellant Combustion. ACS Nano, 2009, 3, 3945-3954.	7.3	221
17	Effect of Brownian and Thermophoretic Diffusions of Nanoparticles on Nonequilibrium Heat Conduction in a Nanofluid Layer with Periodic Heat Flux. Numerical Heat Transfer; Part A: Applications, 2009, 56, 325-341.	1.2	35
18	A Review on the Mechanisms of Heat Transport in Nanofluids. Heat Transfer Engineering, 2009, 30, 1136-1150.	1.2	170
19	EXPERIMENTAL STUDY ON THERMAL CONDUCTIVITY AND VISCOSITY OF WATER BASED NANOFUIDS. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
20	History, Advances, and Challenges in Liquid Flow and Flow Boiling Heat Transfer in Microchannels: A Critical Review. , 2010, , .		9
21	Application of Water Based-TiO ₂ Nano-fluid for Cooling of Hot Steel Plate. ISIJ International, 2010, 50, 124-127.	0.6	45
22	The mechanism of heat transfer in nanofluids: state of the art (review). Part 2. Convective heat transfer. Thermophysics and Aeromechanics, 2010, 17, 157-171.	0.1	57
23	Photothermal Energy Conversion in Liquid Nanoparticle Suspensions. , 2010, , .		0
24	Enhanced thermal conductivity of nanofluids: a state-of-the-art review. Microfluidics and Nanofluidics, 2010, 8, 145-170.	1.0	524
25	Laminar heat transfer of non-Newtonian nanofluids in a circular tube. Korean Journal of Chemical Engineering, 2010, 27, 1391-1396.	1.2	39
26	A model for thermal conductivity of nanofluids. Materials Chemistry and Physics, 2010, 123, 639-643.	2.0	13
27	The role of different parameters on the stability and thermal conductivity of carbon nanotube/water nanofluids. International Communications in Heat and Mass Transfer, 2010, 37, 319-323.	2.9	85
28	Preparation and properties of hybrid water-based suspension of Al ₂ O ₃ nanoparticles and MEPCM particles as functional forced convection fluid. International Communications in Heat and Mass Transfer, 2010, 37, 490-494.	2.9	166
29	An estimation for velocity and temperature profiles of nanofluids in fully developed turbulent flow conditions. International Communications in Heat and Mass Transfer, 2010, 37, 895-900.	2.9	19
30	Convective Performance of Nanofluids in Commercial Electronics Cooling Systems. Applied Thermal Engineering, 2010, 30, 2499-2504.	3.0	82
31	Experimental Validation of a Simple Analytical Model for Specific Heat Capacity of Aqueous Nanofluids. , 0, , .		5
32	Experimental Investigation of Single-Phase Convective Heat Transfer of Nanofluids in a Minichannel. , 2010, , .		2
33	Thermal Physics and Critical Heat Flux Characteristics of Al ₂ O ₃ -H ₂ O Nanofluids. Heat Transfer Engineering, 2010, 31, 1213-1219.	1.2	33
34	Nanofluid Applications in Future Automobiles: Comprehensive Review of Existing Data. Nano-Micro Letters, 2010, 2, 306-310.	14.4	94
35	Exploring the Effects of Nanostructured Particles on Liquid Nitromethane Combustion. Journal of Propulsion and Power, 2010, 26, 1006-1015.	1.3	43
36	Relationship between the thermal conductivity and shear viscosity of nanofluids. Physica Scripta, 2010, 2010, 014078.	1.2	25
37	Large Convective Heat Transfer Enhancement in Microchannels With a Train of Coflowing Immiscible or Colloidal Droplets. Journal of Heat Transfer, 2010, 132, .	1.2	39

#	ARTICLE	IF	CITATIONS
38	Particle size and interfacial effects on thermo-physical and heat transfer characteristics of water-based TiO_2 -SiC nanofluids. Nanotechnology, 2010, 21, 215703.	1.3	220
39	Enhancement in the efficiency of polymerase chain reaction by TiO_2 nanoparticles: crucial role of enhanced thermal conductivity. Nanotechnology, 2010, 21, 255704.	1.3	59
40	A total internal reflection fluorescence microscopy study of mass diffusion enhancement in water-based alumina nanofluids. Journal of Applied Physics, 2010, 108, .	1.1	68
41	An Investigation on Thermal Conductivity and Viscosity of Water Based Nanofluids. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 139-162.	0.5	22
42	Carbon nanohorns-based nanofluids as direct sunlight absorbers. Optics Express, 2010, 18, 5179.	1.7	189
43	Analytical Study on Forced Convection of Nanofluids With Viscous Dissipation in Microchannels. Heat Transfer Engineering, 2010, 31, 1184-1192.	1.2	43
44	An Analysis of Heat Conduction Models for Nanofluids. Heat Transfer Engineering, 2010, 31, 1125-1136.	1.2	16
45	Preparation of Well-Dispersed Silver Nanoparticles for Oil-Based Nanofluids. Industrial & Engineering Chemistry Research, 2010, 49, 1697-1702.	1.8	111
46	Thermal and Fluid-Dynamic Behaviour of Confined Slot Impinging Jets With Nanofluids. , 2011, , .		0
47	Laminar Convective Heat Transfer of Alumina-Polyalphaolefin Nanofluids Containing Spherical and Non-Spherical Nanoparticles. , 2011, , .		1
48	Experimental Studies on Heat Transfer and Friction Factor Characteristics of Al_2O_3 /Water Nanofluid in a Circular Pipe Under Transition Flow With Wire Coil Inserts. Heat Transfer Engineering, 2011, 32, 485-496.	1.2	41
49	Base fluid and temperature effects on the heat transfer characteristics of SiC in ethylene glycol/H ₂ O and H ₂ O nanofluids. Journal of Applied Physics, 2011, 109, .	1.1	140
50	A Simple Analytical Model for Specific Heat of Nanofluid With Tube Shaped and Disc Shaped Nanoparticles. , 2011, , .		6
51	Natural Convection in a Nanofluids-Filled Portioned Cavity: The Lattice-Boltzmann Method. Numerical Heat Transfer; Part A: Applications, 2011, 59, 487-502.	1.2	55
52	Preparation of metal nano-fluid via electrical discharge machining. , 2011, , .		2
53	The effect of Fe_3O_4 nanoparticles on the thermal conductivities of various base fluids. Nanotechnology, 2011, 22, 285713.	1.3	27
54	Highly Thermo-conductive Fluid with Boron Nitride Nanofillers. ACS Nano, 2011, 5, 6571-6577.	7.3	128
55	Investigation of thermal transport in colloidal silica dispersions (nanofluids). Journal of Nanoparticle Research, 2011, 13, 3075-3083.	0.8	5

#	ARTICLE	IF	CITATIONS
56	Forced Convective Heat Transfer of Nanofluids in Minichannels. , 2011, , .		2
57	Nanofluids for Heat Transfer – Potential and Engineering Strategies. , 0, , .		7
58	Numerical evaluation of laminar heat transfer enhancement in nanofluid flow in coiled square tubes. Nanoscale Research Letters, 2011, 6, 376.	3.1	89
59	Al ₂ O ₃ -based nanofluids: a review. Nanoscale Research Letters, 2011, 6, 456.	3.1	187
60	Electrokinetic effects of charged nanoparticles in microfluidic Couette flow. Journal of Colloid and Interface Science, 2011, 363, 59-63.	5.0	16
61	Improving the heat transfer efficiency of synthetic oil with silica nanoparticles. Journal of Colloid and Interface Science, 2011, 364, 71-79.	5.0	105
62	Evaporation characteristics of fuel droplets with the addition of nanoparticles under natural and forced convections. International Journal of Heat and Mass Transfer, 2011, 54, 4913-4922.	2.5	114
63	The influence of nanoparticles on hydrodynamic characteristics and mass transfer performance in a pulsed liquid–liquid extraction column. Chemical Engineering and Processing: Process Intensification, 2011, 50, 1198-1206.	1.8	78
64	Determination of effective specific heat of nanofluids. Journal of Experimental Nanoscience, 2011, 6, 539-546.	1.3	74
65	Review of thermo-physical properties, wetting and heat transfer characteristics of nanofluids and their applicability in industrial quench heat treatment. Nanoscale Research Letters, 2011, 6, 334.	3.1	108
66	Self-similar analysis of fluid flow and heat-mass transfer of nanofluids in boundary layer. Physics of Fluids, 2011, 23, 082002.	1.6	60
67	Microwave-assisted polyol synthesis of Cu nanoparticles. Journal of Nanoparticle Research, 2011, 13, 127-138.	0.8	143
68	Modeling of thermal conductivity of nanofluids by modifying Maxwell’s equation using cell model approach. Journal of Nanoparticle Research, 2011, 13, 2791-2798.	0.8	41
69	Pumping power of nanofluids in a flowing system. Journal of Nanoparticle Research, 2011, 13, 931-937.	0.8	55
70	Dispersion stability and thermal conductivity of propylene glycol-based nanofluids. Journal of Nanoparticle Research, 2011, 13, 5049-5055.	0.8	68
71	Laminar convective heat transfer of non-Newtonian nanofluids with constant wall temperature. Heat and Mass Transfer, 2011, 47, 203-209.	1.2	39
72	Rheological characteristics of non-Newtonian nanofluids: Experimental investigation. International Communications in Heat and Mass Transfer, 2011, 38, 144-148.	2.9	220
73	Discussion on the thermal conductivity enhancement of nanofluids. Nanoscale Research Letters, 2011, 6, 124.	3.1	149

#	ARTICLE	IF	CITATIONS
74	Nanofluids for heat transfer: an engineering approach. <i>Nanoscale Research Letters</i> , 2011, 6, 182.	3.1	158
75	Numerical study of instability of nanofluids: the coagulation effect and sedimentation effect. <i>Nanoscale Research Letters</i> , 2011, 6, 183.	3.1	3
76	Numerical study of a confined slot impinging jet with nanofluids. <i>Nanoscale Research Letters</i> , 2011, 6, 188.	3.1	104
77	Experimental and theoretical studies of nanofluid thermal conductivity enhancement: a review. <i>Nanoscale Research Letters</i> , 2011, 6, 229.	3.1	330
78	A review on boiling heat transfer enhancement with nanofluids. <i>Nanoscale Research Letters</i> , 2011, 6, 280.	3.1	170
79	Enhancements of thermal conductivities with Cu, CuO, and carbon nanotube nanofluids and application of MWNT/water nanofluid on a water chiller system. <i>Nanoscale Research Letters</i> , 2011, 6, 297.	3.1	173
80	Experimental stability analysis of different water-based nanofluids. <i>Nanoscale Research Letters</i> , 2011, 6, 300.	3.1	179
81	Turbulent forced convection heat transfer of non-Newtonian nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1351-1356.	1.5	84
82	Combined thermophoresis, Brownian motion and Dufour effects on natural convection of nanofluids. <i>International Journal of Thermal Sciences</i> , 2011, 50, 394-402.	2.6	82
83	Convective heat transfer of non-Newtonian nanofluids through a uniformly heated circular tube. <i>International Journal of Thermal Sciences</i> , 2011, 50, 525-531.	2.6	110
84	Water-based suspensions of Al ₂ O ₃ nanoparticles and MEPCM particles on convection effectiveness in a circular tube. <i>International Journal of Thermal Sciences</i> , 2011, 50, 736-748.	2.6	60
85	Surface-modified cerium oxide nanoparticles synthesized continuously in supercritical methanol: Study of dispersion stability in ethylene glycol medium. <i>Chemical Engineering Journal</i> , 2011, 168, 1346-1351.	6.6	15
86	A dispersion model of enhanced mass diffusion in nanofluids. <i>Chemical Engineering Science</i> , 2011, 66, 2377-2384.	1.9	61
87	Numerical study of heat transfer enhancement in mixed convection flow along a vertical plate with heat source/sink utilizing nanofluids. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 4318-4334.	1.7	119
88	Thermal conductivity of non-Newtonian nanofluids: Experimental data and modeling using neural network. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1017-1023.	2.5	182
89	On laminar convective cooling performance of hybrid water-based suspensions of Al ₂ O ₃ nanoparticles and MEPCM particles in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 2397-2407.	2.5	52
90	A review of boiling and convective heat transfer with nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2342-2354.	8.2	240
91	Convective heat transfer and fluid flow study over a step using nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 2921-2939.	8.2	159

#	ARTICLE	IF	CITATIONS
92	A critical review on convective heat transfer correlations of nanofluids. Renewable and Sustainable Energy Reviews, 2011, 15, 3271-3277.	8.2	278
93	Dual plasma synthesis and characterization of a stable copper-ethylene glycol nanofluid. Powder Technology, 2011, 210, 132-142.	2.1	34
94	Nanofluids: Properties, Applications and Sustainability Aspects in Materials Processing Technologies. , 2011, , 107-113.		42
95	Synthesis of Stable Oil Dispersions of Silver Nanoparticles. Materials Science Forum, 0, 694, 73-78.	0.3	0
96	Enhanced Thermal Conductivity of Liquid Paraffin Based Nanofluids Containing Copper Nanoparticles. Journal of Dispersion Science and Technology, 2011, 32, 948-951.	1.3	34
97	Single-Phase Thermal Transport of Nanofluids in a Minichannel. Journal of Heat Transfer, 2011, 133, .	1.2	84
98	Study of the Effect of Volume Fraction Concentration and Particle Materials on Thermal Conductivity and Thermal Diffusivity of Nanofluids. Japanese Journal of Applied Physics, 2011, 50, 085201.	0.8	6
99	Two-Phase Study of Fluid Flow and Heat Transfer in Gas-Solid Flows (Nanofluids). Applied Mechanics and Materials, 0, 110-116, 3878-3882.	0.2	2
100	Characterisation of water base copper nanoquenchant by standard cooling curve analysis. International Heat Treatment and Surface Engineering, 2011, 5, 165-170.	0.2	4
101	Boiling and Convective Heat Transfer Characteristics of Nanofluids. Applied Mechanics and Materials, 0, 110-116, 393-399.	0.2	0
102	Heat transfer enhancement using nanofluids: An overview. Thermal Science, 2012, 16, 423-444.	0.5	40
103	The effect of magnetic field and nanofluid on thermal performance of two-phase closed thermosyphon (TPCT). International Journal of Physical Sciences, 2012, 7, .	0.1	7
104	Current research and future applications of nano- and ionano-fluids. Journal of Physics: Conference Series, 2012, 395, 012117.	0.3	14
105	Combustion of Nanofluid Fuels with the Addition of Boron and Iron Particles. , 2012, , .		0
106	Optical Properties and Radiation-Enhanced Evaporation of Nanfluid Fuels. , 2012, , .		0
107	Combustion of Nanofluid Fuels with the Addition of Boron and Iron Particles. , 2012, , .		1
108	Synthesis and Characterization of Nano Heat Transfer Fluid (NHTF). Current Nanoscience, 2012, 8, 232-238.	0.7	1
109	Numerical Study of Laminar Confined Impinging Slot Jets with Nanofluids. Advances in Mechanical Engineering, 2012, 4, 248795.	0.8	12

#	ARTICLE	IF	CITATIONS
110	MHD Free Convective Boundary Layer Flow of a Nanofluid past a Flat Vertical Plate with Newtonian Heating Boundary Condition. PLoS ONE, 2012, 7, e49499.	1.1	71
111	Light-Induced Energy Conversion in Liquid Nanoparticle Suspensions. Computational and Physical Processes in Mechanics and Thermal Science, 2012, , 123-142.	0.7	6
113	Nanofluids mediating surface forces. Advances in Colloid and Interface Science, 2012, 179-182, 68-84.	7.0	47
114	Numerical solution for mixed convection boundary layer flow of a nanofluid along an inclined plate embedded in a porous medium. Computers and Mathematics With Applications, 2012, 64, 2816-2832.	1.4	100
115	Spectrally selective ultra-high temperature ceramic absorbers for high-temperature solar plants. Journal of Renewable and Sustainable Energy, 2012, 4, .	0.8	76
116	Simultaneous Measurement of Thermal Conductivity, Thermal Diffusivity, and Specific Heat of Nanofluids. Heat Transfer Engineering, 2012, 33, 722-731.	1.2	92
117	Ionanofluids: New Heat Transfer Fluids for Green Processes Development. , 2012, , 233-249.		7
118	Analysis of entropy generation between co-rotating cylinders using nanofluids. Energy, 2012, 44, 438-446.	4.5	121
119	Heat transfer enhancement of nanofluids flow in microtube with constant heat flux. International Communications in Heat and Mass Transfer, 2012, 39, 1195-1204.	2.9	59
120	Viscosity and thermal conductivity of dispersions of sub-micron TiO ₂ particles in water prepared by stirred bead milling and ultrasonication. International Journal of Heat and Mass Transfer, 2012, 55, 7991-8002.	2.5	54
121	Thermal conductivity and rheological properties of graphite/oil nanofluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 414, 125-131.	2.3	90
122	Mass transfer enhancement by binary nanofluids (NH ₃ /H ₂ O+Ag nanoparticles) for bubble absorption process. International Journal of Refrigeration, 2012, 35, 2240-2247.	1.8	55
123	An experimental investigation of enhanced thermal conductivity and expedited unidirectional freezing of cyclohexane-based nanoparticle suspensions utilized as nano-enhanced phase change materials (NePCM). International Journal of Thermal Sciences, 2012, 62, 120-126.	2.6	89
124	Thermodynamic and phase behaviour of fluids embedded with nanostructured materials. International Journal of Thermal Sciences, 2012, 62, 44-49.	2.6	7
125	Pressure Drop of Non-Newtonian Nanofluids Flowing Through a Horizontal Circular Tube. Journal of Dispersion Science and Technology, 2012, 33, 1066-1070.	1.3	12
126	Symmetry analysis and self-similar forms of fluid flow and heat-mass transfer in turbulent boundary layer flow of a nanofluid. Physics of Fluids, 2012, 24, .	1.6	44
127	Optical Properties and Radiation-Enhanced Evaporation of Nanofluid Fuels Containing Carbon-Based Nanostructures. Energy & Fuels, 2012, 26, 4224-4230.	2.5	92
128	Thermal conductivity enhancement of ZnO nanofluid using a one-step physical method. Thermochimica Acta, 2012, 542, 24-27.	1.2	93

#	ARTICLE	IF	CITATIONS
129	On the onset of thermal convection in rotating nanofluid layer saturating a Darcy–Brinkman porous medium. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5417-5424.	2.5	86
130	Thermal conductivity measurement of methanol-based nanofluids with Al ₂ O ₃ and SiO ₂ nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5597-5602.	2.5	177
131	The effect of nanofluids flow on mixed convection heat transfer over microscale backward-facing step. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5870-5881.	2.5	64
132	Comparative review of turbulent heat transfer of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5380-5396.	2.5	104
133	Viscosity and thermal conductivity measurements of water-based nanofluids containing titanium oxide nanoparticles. <i>International Journal of Refrigeration</i> , 2012, 35, 1359-1366.	1.8	213
134	Thermal performance and pressure drop analysis of nanofluids in turbulent forced convective flows. <i>International Journal of Thermal Sciences</i> , 2012, 60, 236-243.	2.6	61
135	Natural convection heat transfer performance in complex-wavy-wall enclosed cavity filled with nanofluid. <i>International Journal of Thermal Sciences</i> , 2012, 60, 255-263.	2.6	83
136	Nanofluids for energetics: effect of stabilization on the critical heat flux at boiling. <i>Technical Physics Letters</i> , 2012, 38, 856-860.	0.2	13
137	Preparation and stability of silver/kerosene nanofluids. <i>Nanoscale Research Letters</i> , 2012, 7, 362.	3.1	14
138	Ionic liquid-stabilized non-spherical gold nanofluids synthesized using a one-step method. <i>Nanoscale Research Letters</i> , 2012, 7, 583.	3.1	11
139	An overview on heat transfer augmentation using vortex generators and nanofluids: Approaches and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5951-5993.	8.2	158
140	Heat transfer from a nano-sphere with temperature and velocity discontinuities at the interface. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 6491-6498.	2.5	15
141	Convective heat transfer of alumina nanofluids in laminar flows through a pipe at the thermal entrance regime. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1321-1328.	1.2	14
142	A Study of Thermal Effectiveness of Laminar Forced Convection of Nanofluids. , 2012, , .		0
143	Critical Review of the Novel Applications and Uses of Nanofluids. , 2012, , .		12
144	A Review on Critical Heat Flux Enhancement With Nanofluids and Surface Modification. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	79
145	A Theoretical and Experimental Investigation of Unidirectional Freezing of Nanoparticle-Enhanced Phase Change Materials. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	68
146	Numerical Investigation of the Single Phase Forced Convection Heat Transfer Characteristics of Nanofluid Flowing in Smooth and Micro-Fin Tubes. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
147	History, Advances, and Challenges in Liquid Flow and Flow Boiling Heat Transfer in Microchannels: A Critical Review. <i>Journal of Heat Transfer</i> , 2012, 134, .	1.2	282
148	Conjugate effects of heat and mass transfer of nanofluids over a nonlinear stretching sheet. <i>International Journal of Physical Sciences</i> , 2012, 7, .	0.1	27
149	Nanofluids as Advanced Coolants. , 2012, , 397-415.		6
150	Water-silver nanofluid application in a TPCT under an external magnetic field. <i>Heat Transfer - Asian Research</i> , 2012, 41, 289-301.	2.8	7
151	Applying nanofluid to a rotary disc contactor to investigate breakage phenomenon. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 672-681.	0.9	3
152	Continuous synthesis of surface-modified nanoparticles in supercritical methanol: A facile approach to control dispersibility. <i>Chemical Engineering Journal</i> , 2012, 193-194, 146-153.	6.6	10
153	Viscosity of water based SWCNH and TiO ₂ nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2012, 36, 65-71.	1.5	164
154	On the flow characteristics of nanofluids by experimental approach and molecular dynamics simulation. <i>Experimental Thermal and Fluid Science</i> , 2012, 39, 148-157.	1.5	34
155	Experimental investigation on the thermal conductivity and shear viscosity of viscoelastic-fluid-based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3160-3166.	2.5	113
156	Mass transfer in SiO ₂ nanofluids: A case against purported nanoparticle convection effects. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 3447-3453.	2.5	68
157	Entropy generation of viscous dissipative nanofluid flow in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4169-4182.	2.5	70
158	Transport properties of ultra-low concentration CuO-water nanofluids containing non-spherical nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4734-4743.	2.5	74
159	Study on boiling heat transfer of water-TiO ₂ and water-MWCNT nanofluids based laminar jet impingement on heated steel surface. <i>Applied Thermal Engineering</i> , 2012, 37, 353-359.	3.0	70
160	Application of the modulated temperature differential scanning calorimetry technique for the determination of the specific heat of copper nanofluids. <i>Applied Thermal Engineering</i> , 2012, 41, 10-17.	3.0	78
161	Sub-micron dispersions of sand in water prepared by stirred bead milling and ultrasonication: A potential coolant. <i>Applied Thermal Engineering</i> , 2012, 44, 1-10.	3.0	23
162	Combustion of nanofluid fuels with the addition of boron and iron particles at dilute and dense concentrations. <i>Combustion and Flame</i> , 2012, 159, 1732-1740.	2.8	197
163	Numerical simulation of laminar forced convection heat transfer of Al ₂ O ₃ -water nanofluid in a pipe with return bend. <i>International Journal of Thermal Sciences</i> , 2012, 55, 90-102.	2.6	73
164	Heat transfer of nanofluids in turbulent pipe flow. <i>International Journal of Thermal Sciences</i> , 2012, 56, 58-69.	2.6	40

#	ARTICLE	IF	CITATIONS
165	Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids – A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3917-3938.	8.2	150
166	Heat conduction mechanisms in nanofluids and suspensions. Nano Today, 2012, 7, 124-136.	6.2	132
167	First passage calculation of the conductivity of particle aggregate-laden suspensions and composites. Powder Technology, 2012, 218, 31-39.	2.1	9
168	Study of droplet behaviour along a pulsed liquid-liquid extraction column in the presence of nanoparticles. Canadian Journal of Chemical Engineering, 2013, 91, 506-515.	0.9	22
169	An investigation of electrochemical behavior of nanofluids containing MWCNT on the corrosion rate of carbon steel. Materials Research Bulletin, 2013, 48, 4438-4443.	2.7	16
170	Characterization of dispersed and aggregated Al ₂ O ₃ morphologies for predicting nanofluid thermal conductivities. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	19
171	Thermal Conductivity of Nanofluids. Materials Science Forum, 2013, 757, 111-137.	0.3	11
172	NUMERICAL STUDY OF MIXED BIOCONVECTION IN POROUS MEDIA SATURATED WITH NANOFUID CONTAINING OXYTACTIC MICROORGANISMS. Journal of Mechanics in Medicine and Biology, 2013, 13, 1350067.	0.3	62
173	Investigations of heat transfer of copper-in-Therminol 59 nanofluids. International Journal of Heat and Mass Transfer, 2013, 64, 1196-1204.	2.5	35
174	Non-intrusive method for thermal properties measurement of nanofluids. Experimental Thermal and Fluid Science, 2013, 44, 498-503.	1.5	20
175	Assessment of thermal conductivity, viscosity and specific heat of nanofluids in single phase laminar internal forced convection. International Journal of Heat and Mass Transfer, 2013, 64, 689-693.	2.5	22
176	Viscosity and thermal conductivity of dispersions of gum arabic capped MWCNT in water: Influence of MWCNT concentration and temperature. Journal of the Taiwan Institute of Chemical Engineers, 2013, 44, 474-479.	2.7	90
177	Heat Transfer Enhancement of Cu-H ₂ O Nanofluid with Internal Heat Generation Using LBM. Open Journal of Fluid Dynamics, 2013, 03, 92-99.	0.3	5
178	Investigating performance improvement of solar collectors by using nanofluids. Renewable and Sustainable Energy Reviews, 2013, 28, 232-245.	8.2	158
179	Boiling local heat transfer enhancement in minichannels using nanofluids. Nanoscale Research Letters, 2013, 8, 130.	3.1	33
180	Brownian motion and thermophoresis effects on natural convection of alumina-water nanofluid. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 100-110.	1.1	31
181	Finite element simulation of unsteady magneto-hydrodynamic transport phenomena on a stretching sheet in a rotating nanofluid. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2013, 227, 77-99.	0.1	33
182	Experimental determination of temperature-dependent thermal conductivity of solid eicosane-based nanostructure-enhanced phase change materials. International Journal of Heat and Mass Transfer, 2013, 67, 301-310.	2.5	58

#	ARTICLE	IF	CITATIONS
183	Flow and heat transfer affected by variable properties of nanofluids in natural-convection over a vertical cone in porous media. Computers and Fluids, 2013, 88, 313-325.	1.3	25
184	Experimental studies on the heat transfer and pressure drop characteristics of Cu-water and Al-water nanofluids in a spiral coil. Experimental Thermal and Fluid Science, 2013, 47, 206-212.	1.5	68
185	Thermo Physical Characterization of Paraffin based Fe ₃ O ₄ Nanofluids. Procedia Engineering, 2013, 51, 342-346.	1.2	53
186	Effect of microtube length on heat transfer enhancement of an water/Al ₂ O ₃ nanofluid at high Reynolds numbers. International Journal of Heat and Mass Transfer, 2013, 62, 22-30.	2.5	22
187	Thermal conduction in polymeric nanofluids under mean field approximation: role of interfacial adsorption layers. Physica Scripta, 2013, 88, 015602.	1.2	7
188	Heat Transfer in Water-Based SiC and TiO ₂ Nanofluids. Heat Transfer Engineering, 2013, 34, 1060-1072.	1.2	33
189	Evaporation kinetics of sessile droplets of aqueous suspensions of inorganic nanoparticles. Journal of Colloid and Interface Science, 2013, 403, 49-57.	5.0	26
190	Experimental investigation of the thermophysical properties of Al ₂ O ₃ -nanofluid and its effect on a flat plate solar collector. International Communications in Heat and Mass Transfer, 2013, 48, 99-107.	2.9	170
191	A comparative parametric study on single-phase Al ₂ O ₃ -water nanofluid exchanging heat with a phase-changing fluid. International Journal of Thermal Sciences, 2013, 74, 190-198.	2.6	12
192	Thermal Conductivity Enhancement of Brine Containing Charcoal Particles. Materials Science Forum, 0, 737, 209-214.	0.3	1
193	Study of the Thermal Effectiveness of Laminar Forced Convection of Nanofluids for Liquid Cooling Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1693-1704.	1.4	29
194	Small particles, big impacts: A review of the diverse applications of nanofluids. Journal of Applied Physics, 2013, 113, .	1.1	622
195	On the phononic and electronic contribution to the enhanced thermal conductivity of water-based silver nanofluids. International Journal of Thermal Sciences, 2013, 64, 53-61.	2.6	24
196	Thermal conductivity and specific heat capacity measurements of Al ₂ O ₃ nanofluids. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1615-1625.	2.0	128
197	Box-Behnken experimental design for investigation of stability and thermal conductivity of TiO ₂ nanofluids. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	32
198	Analysis of nanoparticles migration on natural convective heat transfer of nanofluids. International Journal of Thermal Sciences, 2013, 68, 79-93.	2.6	59
199	Mixed convection heat transfer performance of water-based nanofluids in lid-driven cavity with wavy surfaces. International Journal of Thermal Sciences, 2013, 68, 181-190.	2.6	49
200	Experimental investigation of laminar convective heat transfer and pressure drop of water-based Al ₂ O ₃ nanofluids in fully developed flow regime. Experimental Thermal and Fluid Science, 2013, 44, 483-489.	1.5	176

#	ARTICLE	IF	CITATIONS
201	Thermal conductivity enhancement of nanostructure-based colloidal suspensions utilized as phase change materials for thermal energy storage: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 24, 418-444.	8.2	332
202	Buongiorno Model for Nanofluid Blasius Flow with Surface Heat and Mass Fluxes. <i>Journal of Thermophysics and Heat Transfer</i> , 2013, 27, 134-141.	0.9	34
203	Effect of nanoparticle shape on the heat transfer and thermodynamic performance of a shell and tube heat exchanger. <i>International Communications in Heat and Mass Transfer</i> , 2013, 44, 93-99.	2.9	133
204	Entropy Generation Between Two Rotating Cylinders with Magnetohydrodynamic Flow Using Nanofluids. <i>Journal of Thermophysics and Heat Transfer</i> , 2013, 27, 161-169.	0.9	45
205	Preparation of nanofluids from functionalized Graphene by new alkaline method and study on the thermal conductivity and stability. <i>International Communications in Heat and Mass Transfer</i> , 2013, 42, 89-94.	2.9	105
206	Radiative properties of nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2013, 46, 74-84.	2.9	63
207	Viscosity of Fe ₂ O ₃ nanoparticles dispersion in water and ethylene glycol-water mixture (nanofluids). <i>International Journal of Nanoparticles</i> , 2013, 6, 10.	0.1	5
208	Experimental Study on Heat Transfer of Fuel-Particle Mixtures in a Vertical Tube at Supercritical Pressure. , 2013, , .		0
209	Enhanced Thermal Conductivity of Ethylene Glycol-Based Suspensions in the Presence of Silver Nanoparticles of Various Sizes and Shapes. , 2013, , .		1
210	Prospective applications of nano fluid during machining process. <i>International Journal of Machining and Machinability of Materials</i> , 2013, 14, 257.	0.1	1
211	Flow Boiling Heat Transfer and Two-Phase Flow Instability of Nanofluids in a Minichannel. , 2013, , .		1
212	Rapid and Efficient Synthesis of Silver Nanofluid Using Electrical Discharge Machining. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	21
213	Experimental Investigation on Viscosity of Nanofluids. <i>Advanced Materials Research</i> , 0, 650, 134-138.	0.3	1
214	Thermal and rheological properties of micro- and nanofluids of copper in diethylene glycol as heat exchange liquid. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1543, 165-170.	0.1	2
215	Prismatic louver active façades for natural illumination and thermal energy gain in high-rise and commercial buildings. , 2013, , .		3
216	Electrical and Rheological Behavior Of Stabilized Al ₂ O ₃ Nanofluids. <i>Current Nanoscience</i> , 2013, 9, 81-88.	0.7	3
217	Determination of the Single-Phase Forced Convection Heat Transfer Characteristics of TiO ₂ Nanofluids Flowing in Smooth and Micro-Fin Tubes by Means of CFD and ANN Analyses. <i>Current Nanoscience</i> , 2013, 9, 61-80.	0.7	5
218	Synthesis, Properties and Physical Applications of IoNanofluids. , 0, , .		7

#	ARTICLE	IF	CITATIONS
219	Electrical and Rheological Behavior Of Stabilized Al ₂ O ₃ Nanofluids. Current Nanoscience, 2013, 9, 81-88.	0.7	5
220	AN OVERVIEW OF RECENT NANOFUID RESEARCH. International Research Journal of Pharmacy, 2014, 5, 239-243.	0.0	20
221	Boiling Heat Transfer Characteristics of Nanofluids. Japanese Journal of Multiphase Flow, 2014, 28, 167-174.	0.1	2
222	Deterioration in effective thermal conductivity of aqueous magnetic nanofluids. Journal of Applied Physics, 2014, 116, .	1.1	17
223	Laminar Heat Transfer Enhancement Utilizing Nanofluids in a Chaotic Flow. Journal of Heat Transfer, 2014, 136, .	1.2	16
224	Thermal Conductivity Enhancement of Ethylene Glycol-Based Suspensions in the Presence of Silver Nanoparticles of Various Shapes. Journal of Heat Transfer, 2014, 136, .	1.2	28
225	Evaluation of Nanofluids as Potential Novel Coolant for Aircraft Applications: The Case of De-ionized Water-Based Alumina Nanofluids. Journal of Heat Transfer, 2014, 136, .	1.2	11
226	Influence of Sonication on the Stability and Thermal Properties of Al ₂ O ₃ Nanofluids. Journal of Nanomaterials, 2014, 2014, 1-10.	1.5	32
227	Physical-Statistical Model of Thermal Conductivity of Nanofluids. Journal of Nanomaterials, 2014, 2014, 1-6.	1.5	6
228	Role of Nanostructures in Anomalous Thermal Conductivity of Nanofluids. , 2014, , .		0
229	The wettability of PTFE and glass surfaces by nanofluids. Journal of Colloid and Interface Science, 2014, 434, 141-151.	5.0	47
230	Effects of Variable Viscosity and Thermal conductivity on Natural-Convection of Nanofluids Past a Vertical Plate in Porous Media. Journal of Mechanics, 2014, 30, 265-275.	0.7	38
231	A comparison of nanofluid thermal conductivity measurements by flash and hot disk techniques. Journal of Physics: Conference Series, 2014, 547, 012046.	0.3	12
232	Optical and Structural Characterization of Nickel Coatings for Solar Collector Receivers. International Journal of Photoenergy, 2014, 2014, 1-7.	1.4	5
233	Numerical study on the steady-state heat transfer rate of nanofluid filled within square cavity in the presence of oriented magnetic field. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1348-1362.	1.1	8
234	Numerical investigation of magnetic field inclination angle on transient natural convection in an enclosure filled with nanofluid. Engineering Computations, 2014, 31, 1342-1360.	0.7	13
235	Nanofluids with encapsulated tin nanoparticles for advanced heat transfer and thermal energy storage. International Journal of Energy Research, 2014, 38, 51-59.	2.2	74
236	Experimental results of nanofluids flow effects on metal surfaces. Chemical Engineering Research and Design, 2014, 92, 1616-1628.	2.7	51

#	ARTICLE	IF	CITATIONS
237	Thermal conductivity and specific heat capacity measurements of CuO nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1883-1891.	2.0	114
238	Influence of Single-Walled Carbon Nanotubes on Thermal Expansion of Water. <i>International Journal of Thermophysics</i> , 2014, 35, 19-31.	1.0	21
239	Accurate basis of comparison for convective heat transfer in nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 52, 1-7.	2.9	49
240	Aggregation based model for heat conduction mechanism in nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 392-399.	2.5	60
241	Effects of surface modification on the dispersion and thermal conductivity of CNT/water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 54, 1-7.	2.9	76
242	Experimental study on preparation and base liquid effect on thermo-physical and heat transport characteristics of $\text{I}\pm\text{-SiC}$ nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 55, 38-44.	2.9	29
243	Wavy Channel and Different Nanofluids Effects on Performance of Plate-Fin Heat Exchangers. <i>Journal of Thermophysics and Heat Transfer</i> , 2014, 28, 474-484.	0.9	42
244	Use of metallic nanoparticles to improve the thermophysical properties of organic heat transfer fluids used in concentrated solar power. <i>Solar Energy</i> , 2014, 105, 468-478.	2.9	63
245	Convective heat transfer enhancement of graphene nanofluids in shell and tube heat exchanger. <i>Experimental Thermal and Fluid Science</i> , 2014, 53, 136-141.	1.5	179
246	Effects of streamwise conduction on thermal performance of nanofluid flow in microchannel heat sinks. <i>Energy Conversion and Management</i> , 2014, 78, 14-23.	4.4	38
247	Modeling the natural convective flow of micropolar nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 35-41.	2.5	86
248	Correlations of heat transfer effectiveness in a minichannel heat sink with water-based suspensions of Al_2O_3 nanoparticles and/or MEPCM particles. <i>International Journal of Heat and Mass Transfer</i> , 2014, 69, 293-299.	2.5	84
249	Optimal concentration of alumina nanoparticles in molten Hitec salt to maximize its specific heat capacity. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 174-184.	2.5	185
250	Experimental and numerical study of nanofluid flow and heat transfer over microscale backward-facing step. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 858-867.	2.5	34
251	Numerical and experimental investigation of heat transfer enhancement in a microtube using nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 59, 88-100.	2.9	59
252	Modified Prediction Model for Thermal Conductivity of Spherical Nanoparticle Suspensions (Nanofluids) By Introducing Static and Dynamic Mechanisms. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18071-18080.	1.8	20
253	The influence of nanoparticle migration on forced convective heat transfer of nanofluid under heating and cooling regimes. <i>European Physical Journal E</i> , 2014, 37, 43.	0.7	5
254	Thermal energy storage characteristics of $\text{Cu}\text{H}_2\text{O}$ nanofluids. <i>Energy</i> , 2014, 78, 212-217.	4.5	59

#	ARTICLE	IF	CITATIONS
255	Experimental and numerical study of nanofluid flow and heat transfer over microscale forward-facing step. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 319-329.	2.9	16
256	Intensification of convective heat transfer in water/ethylene glycol based nanofluids containing TiO ₂ nanoparticles. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 82, 123-131.	1.8	91
257	Boundary layer flow and heat transfer of a nanofluid over a permeable unsteady stretching sheet with viscous dissipation. <i>Journal of Engineering Thermophysics</i> , 2014, 23, 216-228.	0.6	15
258	EXPERIMENTAL INVESTIGATION OF PARAMETERS AFFECTING NANOFLUID EFFECTIVE THERMAL CONDUCTIVITY. <i>Chemical Engineering Communications</i> , 2014, 201, 593-611.	1.5	63
259	Nucleate pool boiling heat transfer characteristics of dilute Al ₂ O ₃ -ethylene glycol nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 58, 96-104.	2.9	72
260	Heat conduction mechanism in nanofluids. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 2925-2936.	0.7	19
261	Natural Convection Heat Transfer of Copper-Water Nanofluid in a Square Cavity With Time-Periodic Boundary Temperature. <i>Heat Transfer Engineering</i> , 2014, 35, 630-640.	1.2	32
262	Synthesis and characterization of cerium oxide based nanofluids: An efficient coolant in heat transport applications. <i>Chemical Engineering Journal</i> , 2014, 255, 282-289.	6.6	50
263	The effect of nanoparticle diffusion and thermophoresis on convective heat transfer of nanofluid in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2014, 77, 956-969.	2.5	35
264	Heat transfer at film condensation of stationary vapor with nanoparticles near a vertical plate. <i>Applied Thermal Engineering</i> , 2014, 73, 391-398.	3.0	38
265	Facile synthetic strategy of oleophilic zirconia nanoparticles allows preparation of highly stable thermo-conductive coolant. <i>RSC Advances</i> , 2014, 4, 28020-28028.	1.7	16
266	Viscous dissipative forced convection in thermal non-equilibrium nanofluid-saturated porous media embedded in microchannels. <i>International Communications in Heat and Mass Transfer</i> , 2014, 57, 309-318.	2.9	41
267	Field-synergy analysis of viscous dissipative nanofluid flow in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2014, 73, 483-491.	2.5	38
268	Combined convection nanofluid flow and heat transfer over microscale forward-facing step. <i>International Journal of Nanoparticles</i> , 2014, 7, 1.	0.1	10
269	Structural, electrical, and rheological properties of palladium/silver bimetallic nanoparticles prepared by conventional and ultrasonic-assisted reduction methods. <i>Advanced Powder Technology</i> , 2014, 25, 801-810.	2.0	26
270	Experimental Study of Heat Transfer of a Car Radiator with CuO/Ethylene Glycol-Water as a Coolant. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 677-684.	1.3	114
271	Enhanced specific heat capacity of molten salt-based nanomaterials: Effects of nanoparticle dispersion and solvent material. <i>Acta Materialia</i> , 2014, 75, 80-91.	3.8	109
272	Thermal conductivity variation for methanol based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 76, 350-356.	2.5	99

#	ARTICLE	IF	CITATIONS
273	The effect of step height of microscale backward-facing step on mixed convection nanofluid flow and heat transfer characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 554-566.	2.5	58
274	Natural convection of nanofluids over a convectively heated vertical plate embedded in a porous medium. <i>Brazilian Journal of Chemical Engineering</i> , 2014, 31, 413-427.	0.7	31
275	Continuum mathematics at the nanoscale. <i>Journal of Mathematics in Industry</i> , 2014, 4, 11.	0.7	2
276	Experimental investigation on thermophysical properties of ethylene glycol based copper micro- and nanofluids for heat transfer applications. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1779, 69-74.	0.1	0
277	Experimental Study on Nanofluid Flow in a Porous Cylinder: Viscosity, Permeability and Inertial Factor. <i>Defect and Diffusion Forum</i> , 2015, 362, 47-57.	0.4	2
278	A Comprehensive Review on Fluid Dynamics and Transport of Suspension/Liquid Droplets and Particles in High-Velocity Oxygen-Fuel (HVOF) Thermal Spray. <i>Coatings</i> , 2015, 5, 576-645.	1.2	54
279	Preparation of Ag/Cu/Ti Nanofluids by Spark Discharge System and Its Control Parameters Study. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-10.	1.0	11
280	Evaluating the Optical Properties of TiO ₂ Nanofluid for a Direct Absorption Solar Collector. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 1010-1027.	1.2	60
281	Molecular dynamics simulations on the shear viscosity of Al ₂ O ₃ nanofluids. <i>Computers and Fluids</i> , 2015, 117, 17-23.	1.3	40
282	Stability and enhanced thermal conductivity of ethylene glycol-based SiC nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 613-619.	2.5	110
283	Heat transfer in stable film boiling of a nanofluid over a vertical surface. <i>International Journal of Thermal Sciences</i> , 2015, 92, 106-118.	2.6	35
284	Experimental Investigation on the Thermal and Hydraulic Performance of Alumina-Water Nanofluids in Single-Phase Liquid-Cooled Cold Plates. <i>Journal of Heat Transfer</i> , 2015, 137, .	1.2	5
285	Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. <i>Experimental Thermal and Fluid Science</i> , 2015, 65, 13-21.	1.5	65
286	Rayleigh-Benard convection subject to time dependent wall temperature in a porous medium layer saturated by a nanofluid. <i>Meccanica</i> , 2015, 50, 981-994.	1.2	15
287	CO ₂ absorption/regeneration enhancement in DI water with suspended nanoparticles for energy conversion application. <i>Applied Energy</i> , 2015, 143, 119-129.	5.1	70
288	Rheological profile of boron nitride-ethylene glycol nanofluids. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	43
289	Cerium oxide-ethylene glycol nanofluids with improved transport properties: Preparation and elucidation of mechanism. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 49, 183-191.	2.7	47
290	Synthesis and ultrasonic investigations of titanium oxide nanofluids. <i>Journal of Molecular Liquids</i> , 2015, 206, 103-109.	2.3	51

#	ARTICLE	IF	CITATIONS
291	A comprehensive review of thermo-physical properties and convective heat transfer to nanofluids. <i>Energy</i> , 2015, 89, 1065-1086.	4.5	226
292	Turbulent forced convection of Cu-water nanofluid: CFD model comparison. <i>International Communications in Heat and Mass Transfer</i> , 2015, 67, 163-172.	2.9	61
293	Quantitative analyses of factors affecting thermal conductivity of nanofluids using an improved transient hot-wire method apparatus. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 116-123.	2.5	25
294	Analytical solutions of single and multi-phase models for the condensation of nanofluid film flow and heat transfer. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 53, 272-277.	1.2	97
295	Numerical studies on heat transfer enhancement and synergy analysis on few metal oxide water based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 1207-1215.	2.5	17
296	Flow Boiling Heat Transfer and Two-Phase Flow Instability of Nanofluids in a Minichannel. <i>Journal of Heat Transfer</i> , 2015, 137, .	1.2	42
297	Numerical Study of Nanofluid Condensation Heat Transfer in a Square Microchannel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 68, 1242-1265.	1.2	15
298	Nanofluids Alter the Surface Wettability of Solids. <i>Langmuir</i> , 2015, 31, 5827-5835.	1.6	89
299	Thermophysical properties of Single Wall Carbon Nanotubes and its effect on exergy efficiency of a flat plate solar collector. <i>Solar Energy</i> , 2015, 115, 757-769.	2.9	129
300	Chemical reaction and radiation absorption effects on the flow and heat transfer of a nanofluid in a rotating system. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 351-360.	1.6	54
301	A Review on the Discrete Boltzmann Model for Nanofluid Heat Transfer in Enclosures and Channels. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2015, 67, 463-488.	0.6	18
302	Numerical study of natural convection in a horizontal cylinder filled with water-based alumina nanofluid. <i>Nanoscale Research Letters</i> , 2015, 10, 142.	3.1	23
303	Thermal analysis of Al ₂ O ₃ /water nanofluid-filled micro heat pipes. <i>RSC Advances</i> , 2015, 5, 26716-26725.	1.7	10
304	An experimental investigation on sunlight absorption characteristics of silver nanofluids. <i>Solar Energy</i> , 2015, 115, 85-94.	2.9	137
305	A review on thermophysical properties of nanoparticle dispersed phase change materials. <i>Energy Conversion and Management</i> , 2015, 95, 69-89.	4.4	241
306	Myth about nano-fluid heat transfer enhancement. <i>International Journal of Heat and Mass Transfer</i> , 2015, 86, 397-403.	2.5	39
307	Theoretical analysis of natural convection boundary layer heat and mass transfer of nanofluids: Effects of size, shape and type of nanoparticles, type of base fluid and working temperature. <i>Advanced Powder Technology</i> , 2015, 26, 935-946.	2.0	142
308	Experimental investigation on the use of reduced graphene oxide and its hybrid complexes in improving closed conduit turbulent forced convective heat transfer. <i>Experimental Thermal and Fluid Science</i> , 2015, 66, 290-303.	1.5	47

#	ARTICLE	IF	CITATIONS
309	Modeling and simulation of nanomaterials in fluids. , 2015, , 419-441.		0
310	Hydromagnetic convectiveâ€“radiative boundary layer flow of nanofluids induced by a non-linear vertical stretching/shrinking sheet with viscousâ€“Ohmic dissipation. Powder Technology, 2015, 279, 61-74.	2.1	64
311	MHD Flow and Heat Transfer of Nanofluids through a Porous Media Due to a Stretching Sheet with Viscous Dissipation and Chemical Reaction Effects. International Journal for Computational Methods in Engineering Science and Mechanics, 2015, 16, 275-284.	1.4	24
312	Characterization of Thermal Conductivity and Viscosity of Nanofluids with Aqueous Base Fluids. Advanced Materials Research, 0, 1101, 344-347.	0.3	0
313	Experimental analysis of corrosion and erosion phenomena on metal surfaces by nanofluids. Chemical Engineering Research and Design, 2015, 104, 605-614.	2.7	51
314	Effect of Nanoparticles on Thermal Properties Enhancement in Different Oils â€“ A Review. Critical Reviews in Solid State and Materials Sciences, 2015, 40, 399-424.	6.8	30
315	A review of studies on using nanofluids in flat-plate solar collectors. Solar Energy, 2015, 122, 1245-1265.	2.9	113
316	Heat Transfer Enhancement by Using Copperâ€“Water Nanofluid Flow Inside a Pin Channel. Experimental Heat Transfer, 2015, 28, 446-463.	2.3	17
317	Heat and Mass Transfer of Nanofluid from Horizontal Cylinder to Micropolar Fluid. Journal of Thermophysics and Heat Transfer, 2015, 29, 127-139.	0.9	36
318	Heat transfer at film condensation of moving vapor with nanoparticles over a flat surface. International Journal of Heat and Mass Transfer, 2015, 82, 316-324.	2.5	32
319	Thermal conductivity, viscosity and rheology of a suspension based on Al ₂ O ₃ nanoparticles and mixture of 90% ethylene glycol and 10% water. International Journal of Heat and Mass Transfer, 2015, 83, 187-191.	2.5	40
320	Free Convection in a Square Cavity Filled with a Porous Medium Saturated by Nanofluid Using Tiwari and Dasâ€™ Nanofluid Model. Transport in Porous Media, 2015, 106, 595-610.	1.2	154
321	The experimental and theoretical study of laminar forced convection of nanofluids in the round channel. Applied Thermal Engineering, 2015, 88, 140-148.	3.0	42
322	An experimental study of Cuâ€“water nanofluid flow inside serpentine tubes with variable straight-section lengths. Experimental Thermal and Fluid Science, 2015, 61, 1-11.	1.5	36
323	A review on hybrid nanofluids: Recent research, development and applications. Renewable and Sustainable Energy Reviews, 2015, 43, 164-177.	8.2	916
324	Investigation of characteristic velocity in a pulsed packed column in the presence of SiO ₂ nanoparticles. Chemical Engineering Research and Design, 2015, 94, 494-500.	2.7	11
325	Review of convection heat transfer and fluid flow in porous media with nanofluid. Renewable and Sustainable Energy Reviews, 2015, 41, 715-734.	8.2	221
326	Heat Transfer Performance Of Viscoelastic-Fluid-Based Nanofluid Pipe Flow At Entrance Region. Experimental Heat Transfer, 2015, 28, 125-138.	2.3	11

#	ARTICLE	IF	CITATIONS
327	Numerical Study of Pressure Drop and Thermal Characteristics of Al ₂ O ₃ –Water Nanofluid Flow in Horizontal Annuli. <i>Heat Transfer Engineering</i> , 2015, 36, 166-177.	1.2	29
328	Metal oxide-based nanoparticles: revealing their potential to enhance oil recovery in different wettability systems. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 181-199.	1.6	217
329	Review on combined heat and mass transfer characteristics in nanofluids. <i>International Journal of Thermal Sciences</i> , 2015, 87, 49-67.	2.6	171
330	Nanofluids Based on Carbon Nanostructures. , 0, , .		3
331	2D-Based Nanofluids: Materials Evaluation and Performance. , 2016, , .		0
332	The difference in the thermal conductivity of nanofluids measured by different methods and its rationalization. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 2037-2044.	1.5	9
333	Combined CO ₂ absorption/regeneration performance enhancement by using nanoabsorbents. <i>Applied Energy</i> , 2016, 178, 164-176.	5.1	85
334	On the enhancement of heat transfer fluid for concentrating solar power using Cu and Ni nanofluids: An experimental and molecular dynamics study. <i>Nano Energy</i> , 2016, 27, 213-224.	8.2	66
335	Experimental validation of numerical predictions for forced convective heat transfer of nanofluids in a microchannel. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 203-212.	1.1	30
336	Nanotechnologies for thermophysics: Heat transfer and crisis phenomena at boiling. <i>Nanotechnologies in Russia</i> , 2016, 11, 696-715.	0.7	44
337	Dean instability of nanofluids with radial temperature and concentration non-uniformity. <i>Physics of Fluids</i> , 2016, 28, .	1.6	20
338	Influence of the combined effect of magnetic field and rotation on the onset of a non-Newtonian viscoelastic nanofluid layer: Linear and nonlinear analyses. <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	7
339	Evaluation of copper nanoparticles – Paraffin wax compositions for solar thermal energy storage. <i>Solar Energy</i> , 2016, 132, 267-278.	2.9	212
340	Application of perturbed hard-sphere equation of state to the study of volumetric properties of nano-fluids. <i>Fluid Phase Equilibria</i> , 2016, 423, 181-189.	1.4	5
341	Remarkable enhancement of convective heat transfer with different nanoparticles in N-methyldiethanolamine solution in gas sweetening process. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 1-5.	2.9	6
342	Non-Newtonian nanofluid in a micro planar sudden expansion considering variable properties. <i>International Journal of Thermal Sciences</i> , 2016, 107, 316-329.	2.6	9
343	Numerical study of nanofluids condensation heat transfer in a square microchannel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 957-976.	1.2	10
344	Nanofluid and nanocomposite applications in solar energy conversion systems for performance enhancement: a review. <i>International Journal of Low-Carbon Technologies</i> , 2016, , ctw007.	1.2	12

#	ARTICLE	IF	CITATIONS
345	Laminar forced convection effectiveness of Al ₂ O ₃ –water nanofluid flow in a circular tube at various operation temperatures: Effects of temperature-dependent properties. International Journal of Heat and Mass Transfer, 2016, 100, 464-481.	2.5	15
346	Particle shape effects on some of the transport properties of tungsten oxide nanofluids. Journal of Molecular Liquids, 2016, 223, 828-835.	2.3	27
347	- Molecular Dynamics Simulations for Water–Metal Interfacial Thermal Resistance. , 2016, , 46-73.		0
348	Water driven Cu nanoparticles between two concentric ducts with oscillatory pressure gradient. Journal of Molecular Liquids, 2016, 224, 322-332.	2.3	24
349	Mixed convection nanofluid flow over microscale forward-facing step – Effect of inclination and step heights. International Communications in Heat and Mass Transfer, 2016, 78, 145-154.	2.9	50
350	Convective Heat Transfer Enhancement with Nanofluids: A State-of-the-Art Review. , 2016, , 55-98.		0
351	Magnetic field induced augmented thermal conduction phenomenon in magneto-nanocolloids. Journal of Magnetism and Magnetic Materials, 2016, 419, 588-599.	1.0	31
352	Numerical simulation and optimization of nanofluid in a C-shaped chaotic channel. Numerical Heat Transfer; Part A: Applications, 2016, 70, 366-383.	1.2	5
353	A review of thermophysical properties of water based composite nanofluids. Renewable and Sustainable Energy Reviews, 2016, 66, 654-678.	8.2	152
354	Symmetry analysis for film boiling of nanofluids on a vertical plate using a nonlinear approach. Journal of Molecular Liquids, 2016, 223, 156-164.	2.3	18
355	Forced convection in nanoparticles doped nematics without reorientation. Journal of Contemporary Physics, 2016, 51, 270-275.	0.1	1
356	Experimental study on the thermo-physical properties of car engine coolant (water/ethylene glycol) Tj ETQq1 1 0.784314 rgBT /Overl... 159-164.	2.9	66
357	Mixed convection heat transfer of nanofluid over microscale vertical duct preceded with a double-step expansion using Lattice Boltzmann Method. Journal of Thermal Science and Technology, 2016, 11, JTST0003-JTST0003.	0.6	2
358	Ethylene glycol (EG)-based nanofluids as a coolant for automotive radiator. Asia Pacific Journal on Computational Engineering, 2016, 3, .	2.2	52
359	Centrifugal instability of nanofluids with radial temperature and concentration non-uniformity between co-axial rotating cylinders. European Journal of Mechanics, B/Fluids, 2016, 60, 90-98.	1.2	9
360	Structural and optical properties of copper-coated substrates for solar thermal absorbers. Superlattices and Microstructures, 2016, 98, 342-350.	1.4	4
362	Mechanism of Temperature Dependent Thermal Transport across the Interface between Self-Assembled Monolayer and Water. Journal of Physical Chemistry C, 2016, 120, 26678-26685.	1.5	40
363	Characterization of high performance AlN nanoparticle-based transformer oil nanofluids. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2757-2767.	1.8	54

#	ARTICLE	IF	CITATIONS
364	Conduction and convection heat transfer characteristics of ethylene glycol based nanofluids – A review. Applied Energy, 2016, 184, 681-695.	5.1	87
365	Thermal transport phenomena in nanoparticle suspensions. Journal of Physics Condensed Matter, 2016, 28, 483003.	0.7	55
366	A preliminary study on the potency of nanofluids as the electro-active materials for nanoelectrofuel flow batteries. AIP Conference Proceedings, 2016, , .	0.3	3
367	Thermo-physical properties of water and ethylene glycol mixture based SiC nanofluids: An experimental investigation. International Journal of Heat and Mass Transfer, 2016, 101, 412-417.	2.5	48
368	Graphene based nanofluids and nanolubricants – Review of recent developments. Renewable and Sustainable Energy Reviews, 2016, 63, 346-362.	8.2	222
369	Experimental investigation on cavity flow natural convection of Al ₂ O ₃ –water nanofluids. International Communications in Heat and Mass Transfer, 2016, 76, 316-324.	2.9	118
370	Effect of particle size and viscosity on thermal conductivity enhancement of graphene oxide nanofluid. International Communications in Heat and Mass Transfer, 2016, 76, 308-315.	2.9	190
371	SiC Nanowires with Tunable Hydrophobicity/Hydrophilicity and Their Application as Nanofluids. Langmuir, 2016, 32, 5909-5916.	1.6	23
372	Energy and exergy analysis of a flat plate solar collector using different sizes of aluminium oxide based nanofluid. Journal of Cleaner Production, 2016, 133, 518-530.	4.6	134
373	CO ₂ regeneration performance enhancement by nanoabsorbents for energy conversion application. Applied Thermal Engineering, 2016, 103, 980-988.	3.0	17
374	Experimental study on critical heat flux of highly efficient soft hydrophilic CuO–chitosan nanofluid templates. International Journal of Heat and Mass Transfer, 2016, 100, 396-406.	2.5	39
375	Robust design of using nanofluid/MQL in micro-drilling. International Journal of Advanced Manufacturing Technology, 2016, 85, 2155-2161.	1.5	33
376	Performance of agitated serpentine heat exchanger using metallic nanofluids. Chemical Engineering Research and Design, 2016, 109, 53-64.	2.7	26
377	Thermal energy storage based solar drying systems: A review. Innovative Food Science and Emerging Technologies, 2016, 34, 86-99.	2.7	142
378	Exact analysis for the effect of heat transfer on MHD and radiation Marangoni boundary layer nanofluid flow past a surface embedded in a porous medium. Journal of Molecular Liquids, 2016, 215, 625-639.	2.3	82
379	Size effect on the thermal intensification of alumina-filled nanocomposites. Journal of Composite Materials, 2016, 50, 3699-3707.	1.2	9
380	Application of artificial neural network and PCA to predict the thermal conductivities of nanofluids. Heat and Mass Transfer, 2016, 52, 2141-2154.	1.2	19
381	Experimental investigation on the correlation between nano-fluid characteristics and thermal properties of Al ₂ O ₃ nano-particles dispersed in ethylene glycol–water mixture. International Journal of Heat and Mass Transfer, 2016, 94, 262-268.	2.5	44

#	ARTICLE	IF	CITATIONS
382	Experimental Investigation of Saturated Flow Boiling Heat Transfer to TiO ₂ /R141b Nanorefrigerant. <i>Experimental Heat Transfer</i> , 2016, 29, 188-204.	2.3	27
383	Effect of nanofluids on the performance of passive double slope solar still: A comparative study using characteristic curve. <i>Desalination</i> , 2016, 388, 9-21.	4.0	151
384	Materials and system requirements of high temperature thermal energy storage systems: A review. Part 2: Thermal conductivity enhancement techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1584-1601.	8.2	59
385	A review on the heat and mass transfer phenomena in nanofluid coolants with special focus on automotive applications. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1615-1633.	8.2	104
386	Effects of the particle size and temperature on the efficiency of nanofluids using molecular dynamic simulation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 996-1013.	1.2	19
387	Innovative method of metal coating of microcapsules containing phase change materials. <i>Solar Energy</i> , 2016, 129, 54-64.	2.9	88
388	Momentum and heat transfer characteristics from heated spheroids in water based nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2016, 96, 582-601.	2.5	18
389	Heat Transfer and Pressure Drop Characteristics of Dilute Alumina-Water Nanofluids in a Pipe at Different Power Inputs. <i>Heat Transfer Engineering</i> , 2016, 37, 1554-1565.	1.2	26
390	Molecular dynamic simulation: Studying the effects of Brownian motion and induced micro-convection in nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 643-658.	1.2	32
391	Effect of nanofluid concentration and composition on laminar jet impinged cooling of heated steel plate. <i>Applied Thermal Engineering</i> , 2016, 100, 237-246.	3.0	31
392	Entropy generation analysis for metachronal beating of ciliated Cu-water nanofluid with magnetic field. <i>International Journal of Exergy</i> , 2016, 19, 41.	0.2	9
393	An empirical study on vortex-generator insert fitted in tubular heat exchangers with dilute Cu-water nanofluid flow. <i>Chinese Journal of Chemical Engineering</i> , 2016, 24, 728-736.	1.7	33
394	Intensification of heat transfer using PANI nanoparticles and PANI-CuO nanocomposite based nanofluids. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 104, 172-180.	1.8	45
395	Effect of Al ₂ O ₃ nanoparticles on the performance of passive double slope solar still. <i>Solar Energy</i> , 2016, 130, 260-272.	2.9	200
396	Natural convection and entropy generation of Al ₂ O ₃ -water nanofluid in an inclined wavy-wall cavity. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 511-520.	2.5	45
397	An experimental determination of thermal conductivity and electrical conductivity of bio glycol based Al ₂ O ₃ nanofluids and development of new correlation. <i>International Communications in Heat and Mass Transfer</i> , 2016, 73, 75-83.	2.9	79
398	Single-phase heat transfer enhancement in micro/minichannels using nanofluids: Theory and applications. <i>Applied Energy</i> , 2016, 164, 733-755.	5.1	125
399	Convective heat transfer performance of aggregate-laden nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 1107-1115.	2.5	10

#	ARTICLE	IF	CITATIONS
400	Silicon carbide nanowires suspensions with high thermal transport properties. Applied Thermal Engineering, 2016, 94, 350-354.	3.0	18
401	A comprehensive comparison of various CFD models for convective heat transfer of Al ₂ O ₃ nanofluid inside a heated tube. International Communications in Heat and Mass Transfer, 2016, 70, 27-37.	2.9	56
402	Pool boiling heat transfer of water/ β^3 -alumina micro-fluids around the horizontal cylinder. Heat and Mass Transfer, 2016, 52, 763-772.	1.2	1
403	Numerical Investigation of Forced Convection Flow of Nanofluids in Rotating U-Shaped Smooth and Ribbed Channels. Heat Transfer Engineering, 2016, 37, 840-861.	1.2	18
404	Rheological behaviour of nanofluids: A review. Renewable and Sustainable Energy Reviews, 2016, 53, 779-791.	8.2	258
405	Experimental evaluation of nano-molybdenum disulphide and nano-boric acid suspensions in vegetable oils as prospective cutting fluids during turning of AISI 1040 steel. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 493-505.	1.0	35
406	Overall heat transfer coefficient and pressure drop in a typical tubular exchanger employing alumina nano-fluid as the tube side hot fluid. Heat and Mass Transfer, 2016, 52, 1417-1424.	1.2	6
407	The shape effects of nanoparticles suspended in HFE-7100 over wedge with entropy generation and mixed convection. Applied Nanoscience (Switzerland), 2016, 6, 641-651.	1.6	175
408	Enhanced thermal conductivity of nanofluids by nanoconvection and percolation network. Heat and Mass Transfer, 2016, 52, 511-520.	1.2	9
409	Natural Convection of Al ₂ O ₃ Nanofluid Between Two Horizontal Cylinders Inside a Circular Enclosure. Heat Transfer Engineering, 2017, 38, 177-189.	1.2	14
410	On the Viscosity of Ag/Oil Based Nanofluids: A Correlation. Heat Transfer - Asian Research, 2017, 46, 18-28.	2.8	12
411	A Complete Experimental Investigation on The Rheological Behavior of Silver Oil Based Nanofluid. Heat Transfer - Asian Research, 2017, 46, 294-304.	2.8	9
412	Mechanism of Heat Transfer with Nanofluids for the Application in Oil Wells. Topics in Mining, Metallurgy and Materials Engineering, 2017, , 175-192.	1.4	1
413	Reduced graphene oxide dispersed nanofluids with improved photo-thermal conversion performance for direct absorption solar collectors. Solar Energy Materials and Solar Cells, 2017, 163, 125-133.	3.0	102
414	Prediction of Thermal Conductivity and Viscosity of Ionic Liquid-Based Nanofluids Using Adaptive Neuro Fuzzy Inference System. Heat Transfer Engineering, 2017, 38, 1561-1572.	1.2	16
415	Engineering Applications of Nanotechnology. Topics in Mining, Metallurgy and Materials Engineering, 2017,	1.4	7
416	Numerical analysis of thermal hydraulic performance of Al_2O_3 nanofluid. Heat Transfer Engineering, 2017, 38, 1561-1572.	1.2	16
417	Influence of container material on the heat transfer characteristics of nanofluids. Experimental Heat Transfer, 2017, 30, 302-315.	2.3	9

#	ARTICLE	IF	CITATIONS
418	Analytical Technique for Estimating the Thermophysical Properties of Hybrid Nanofluids. <i>Advanced Materials Research</i> , 0, 1143, 207-213.	0.3	1
419	Diffusion of charged nano-disks in aqueous media: Influence of competing inter-particle interactions and thermal effects. <i>Chemical Engineering Science</i> , 2017, 164, 71-80.	1.9	3
420	Numerical simulation and optimization of nanofluids in a complex micro heat sink. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 341-359.	1.2	7
421	Ag-based nanofluidic system to enhance heat transfer fluids for concentrating solar power: Nano-level insights. <i>Applied Energy</i> , 2017, 194, 19-29.	5.1	54
422	Experimental investigation of convective heat transfer coefficient of $Al_2O_3/water$ nanofluid at lower concentrations in a car radiator. <i>Heat Transfer - Asian Research</i> , 2017, 46, 1119-1129.	2.8	15
423	Advanced nanomaterials in oil and gas industry: Design, application and challenges. <i>Applied Energy</i> , 2017, 191, 287-310.	5.1	206
424	A Molecular Dynamics Simulation of Brownian Motion of a Nanoparticle in a Nanofluid. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017, 21, 263-277.	1.4	13
425	Nanoparticle shapes on squeezed MHD nanofluid flow over a porous sensor surface. <i>Journal of Molecular Liquids</i> , 2017, 233, 156-165.	2.3	19
426	Combined influence of fluctuations in the temperature and stretching velocity of the sheet on MHD flow of Cu-water nanofluid through rotating porous medium with cubic auto-catalysis chemical reaction. <i>Journal of Molecular Liquids</i> , 2017, 237, 347-360.	2.3	26
427	Carbon nanotube analysis for an unsteady physiological flow in a non-uniform channel of finite length. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	5
428	Cylindrical Couette flow and heat transfer properties of nanofluids; single-phase and two-phase analyses. <i>Journal of Molecular Liquids</i> , 2017, 240, 45-55.	2.3	36
429	A critical review of traditional and emerging techniques and fluids for electronics cooling. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 821-833.	8.2	515
430	Studies on Al_2O_3 , CuO , and TiO_2 water-based nanofluids: A comparative approach in laminar and turbulent flow. <i>Journal of Engineering Thermophysics</i> , 2017, 26, 291-301.	0.6	29
431	Enhanced Thermal Conductivity of Copper Nanofluids: The Effect of Filler Geometry. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18925-18935.	4.0	72
432	MHD pulsatile flow of engine oil based carbon nanotubes between two concentric cylinders. <i>Results in Physics</i> , 2017, 7, 57-68.	2.0	60
433	Photo-thermal conversion characteristics of MWCNT-H ₂ O nanofluids for direct solar thermal energy absorption applications. <i>Applied Thermal Engineering</i> , 2017, 124, 486-493.	3.0	76
434	Fouling formation and thermal performance of aqueous carbon nanotube nanofluid in a heat sink with rectangular parallel microchannel. <i>Applied Thermal Engineering</i> , 2017, 123, 29-39.	3.0	89
435	Experimental investigation of heat transfer enhancement in helical coil heat exchangers using water based CuO nanofluid. <i>Advanced Powder Technology</i> , 2017, 28, 2288-2294.	2.0	43

#	ARTICLE	IF	CITATIONS
436	Self-similar analysis of fluid flow, heat, and mass transfer at orthogonal nanofluid impingement onto a flat surface. <i>Physics of Fluids</i> , 2017, 29, 052005.	1.6	12
437	Numerical simulation of the nanoparticle diameter effect on the thermal performance of a nanofluid in a cooling chamber. <i>Journal of Applied Mechanics and Technical Physics</i> , 2017, 58, 291-300.	0.1	3
438	A state of the art review on viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 1134-1152.	8.2	331
439	Hydrodynamic performance of a pulsed extraction column containing ZnO nanoparticles: Drop size and size distribution. <i>Chemical Engineering Research and Design</i> , 2017, 121, 275-286.	2.7	22
440	Synthesis and characterization of Zn-Al layered double hydroxide nanofluid and its application as a coolant in metal quenching. <i>Applied Clay Science</i> , 2017, 143, 241-249.	2.6	12
441	Thermal contact theory for estimating the thermal conductivity of nanofluids and composite materials. <i>Applied Thermal Engineering</i> , 2017, 120, 179-186.	3.0	5
442	Review: Enhancing efficiency of solar thermal engineering systems by thermophysical properties of a promising nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1343-1348.	8.2	19
443	Optical absorption property and photo-thermal conversion performance of graphene oxide/water nanofluids with excellent dispersion stability. <i>Solar Energy</i> , 2017, 148, 17-24.	2.9	96
445	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
446	Natural Propulsion with Lorentz Force and Nanoparticles in a Bioinspired Lopsided Ciliated Channel. <i>Journal of Bionic Engineering</i> , 2017, 14, 172-181.	2.7	6
447	The lattice Boltzmann investigation of natural convection for nanofluid based battery thermal management. <i>Applied Thermal Engineering</i> , 2017, 115, 659-669.	3.0	56
448	Dispersion stability of thermal nanofluids. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 531-542.	1.8	241
449	Modelling and simulation of temperature and concentration dispersion in a couple stress nanofluid flow through stenotic tapered arteries. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	12
450	Experiment on forced convective heat transfer enhancement using MWCNTs/GNPs hybrid nanofluid and mini-tube. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 1121-1131.	2.5	75
451	Nanoparticle shapes effects on unsteady physiological transport of nanofluids through a finite length non-uniform channel. <i>Results in Physics</i> , 2017, 7, 2477-2484.	2.0	23
452	Improved tribological properties of Si3N4/GCr15 sliding pairs with few layer graphene as oil additives. <i>Ceramics International</i> , 2017, 43, 14218-14224.	2.3	37
453	Subcooled flow boiling heat transfer of \hat{I}^3 -Al2O3/water nanofluids in horizontal microtubes and the effect of surface characteristics and nanoparticle deposition. <i>Applied Thermal Engineering</i> , 2017, 127, 536-546.	3.0	25
454	Effect of Nanosilver/Water-in-Kerosene Emulsion on NOx Reduction and Enhancement of Thermal Characteristics of a Liquid Fuel Burner. <i>Energy & Fuels</i> , 2017, 31, 14288-14295.	2.5	10

#	ARTICLE	IF	CITATIONS
455	Effects of magnetohydrodynamics and hybrid nanoparticles on a micropolar fluid with 6-types of stenosis. Results in Physics, 2017, 7, 4130-4139.	2.0	60
456	An unsteady MHD Maxwell nanofluid flow with convective boundary conditions using spectral local linearization method. Open Physics, 2017, 15, 637-646.	0.8	14
457	MHD boundary layer flow and heat transfer characteristics of a nanofluid over a stretching sheet. Acta Universitatis Sapientiae, Mathematica, 2017, 9, 140-161.	0.0	11
458	Turbulent heat transfer and nanofluid flow in a protruded ribbed square passage. Results in Physics, 2017, 7, 3603-3618.	2.0	20
459	Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4677-4717.	0.8	45
460	Cooling methodologies of photovoltaic module for enhancing electrical efficiency: A review. Solar Energy Materials and Solar Cells, 2017, 160, 275-286.	3.0	201
461	Review of forced convection nanofluids through corrugated facing step. Renewable and Sustainable Energy Reviews, 2017, 75, 234-241.	8.2	39
462	Numerical investigation of nanofluid heat transfer in helically coiled tubes using the four-equation model. Advanced Powder Technology, 2017, 28, 256-265.	2.0	15
463	Shape effects of spherical and nonspherical nanoparticles in mixed convection flow over a vertical stretching permeable sheet. Mechanics of Advanced Materials and Structures, 2017, 24, 1231-1238.	1.5	41
464	The boiling performance of ZnO, Al_2O_3 and MWCNTs/water nanofluids: An experimental study. Experimental Thermal and Fluid Science, 2017, 80, 27-39.	1.5	31
465	Preparation of graphene-nickel nanoparticles hybrid by spray pyrolysis using nickel oleate precursor and its application as a ferrofluid. Inorganic and Nano-Metal Chemistry, 2017, 47, 558-564.	0.9	1
466	Preparation of graphite nanoparticles-modified phase change microcapsules and their dispersed slurry for direct absorption solar collectors. Solar Energy Materials and Solar Cells, 2017, 159, 159-166.	3.0	80
467	Thermal conductivity measurements of nanofluids. International Journal of Heat and Mass Transfer, 2017, 104, 1275-1282.	2.5	187
468	Experimental study of nanoparticles distribution in natural convection of Al_2O_3 -water nanofluid in a square cavity. International Journal of Thermal Sciences, 2017, 112, 82-91.	2.6	24
469	Field-Synergy and Figure-of-Merit Analysis of Two Oxide-Water-Based Nanofluids' Flow in Heated Tubes. Heat Transfer Engineering, 2017, 38, 909-918.	1.2	17
470	Experimental investigation on stability and thermal conductivity of diathermic oil based TiO_2 nanofluids. International Journal of Heat and Mass Transfer, 2017, 104, 537-543.	2.5	139
471	Hybrid nanofluids based on Al_2O_3 , TiO_2 and SiO_2 : Numerical evaluation of different approaches. International Journal of Heat and Mass Transfer, 2017, 104, 852-860.	2.5	193
472	Linear stability analysis on the onset of MHD non-Newtonian viscoelastic rotating nanofluid layer with heat generation. AIP Conference Proceedings, 2017, , .	0.3	1

#	ARTICLE	IF	CITATIONS
473	A review on measurement techniques of apparent thermal conductivity of nanofluids. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012146.	0.3	8
474	Unsteady mixed convection flow through a permeable stretching flat surface with partial slip effects through MHD nanofluid using spectral relaxation method. Open Physics, 2017, 15, 323-334.	0.8	6
475	Numerical investigation on supercritical turbulent heat transfer of copper/n-decane nanofluid inside a miniature tube. Numerical Heat Transfer; Part A: Applications, 2017, 72, 921-935.	1.2	9
476	Nanofluid Types, Their Synthesis, Properties and Incorporation in Direct Solar Thermal Collectors: A Review. Nanomaterials, 2017, 7, 131.	1.9	135
477	Magneto hydrodynamic Nanoliquid Thin Film Sprayed on a Stretching Cylinder with Heat Transfer. Applied Sciences (Switzerland), 2017, 7, 271.	1.3	126
478	Nano-Based Drilling Fluids: A Review. Energies, 2017, 10, 540.	1.6	160
479	Effect of Filler Shape on the Thermal Conductivity of Thermal Functional Composites. Journal of Nanomaterials, 2017, 2017, 1-15.	1.5	19
480	Nanofluid with Colloidal Magnetic Fe ₃ O ₄ Nanoparticles and Its Applications in Electrical Engineering. , 0, , .		10
481	Numerical modelling of thermophoresis in water-alumina nanofluid under pool boiling conditions. International Journal of Thermal Sciences, 2018, 129, 1-13.	2.6	14
482	Performance of agitated-vessel U tube heat exchanger using spiky twisted tapes and water based metallic nanofluids. Chemical Engineering Research and Design, 2018, 133, 26-39.	2.7	41
483	Experimental and theoretical investigation of thermal conductivity of some water-based nanofluids. Chemical Engineering Communications, 2018, 205, 610-623.	1.5	9
484	Determination of absorption coefficient of nanofluids with unknown refractive index from reflection and transmission spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 213, 107-112.	1.1	9
485	Effect of graphite on the flame retardancy and thermal conductivity of P&N flame retarding PA6. Journal of Applied Polymer Science, 2018, 135, 46559.	1.3	13
486	Review of pool boiling enhancement with additives and nanofluids. International Journal of Heat and Mass Transfer, 2018, 124, 423-453.	2.5	139
487	Effect of light scattering on the performance of a direct absorption solar collector. Frontiers in Energy, 2018, 12, 169-177.	1.2	20
488	Potential heat transfer enhancement of functionalized graphene nanoplatelet dispersions in a propylene glycol-water mixture. Thermophysical profile. Journal of Chemical Thermodynamics, 2018, 123, 174-184.	1.0	45
489	Effect of Al ₂ O ₃ . International Journal of Thermophysics, 2018, 39, 1.	1.0	11
490	Thermophysical properties of nanofluids. European Physical Journal E, 2018, 41, 15.	0.7	75

#	ARTICLE	IF	CITATIONS
491	Modeling and analyzing flow of third grade nanofluid due to rotating stretchable disk with chemical reaction and heat source. <i>Physica B: Condensed Matter</i> , 2018, 537, 116-126.	1.3	88
492	Thermal performance of a thermosyphon heat pipe evacuated tube solar collector using silver-water nanofluid for commercial applications. <i>Renewable Energy</i> , 2018, 122, 26-34.	4.3	141
493	Buoyancy-Driven Heat Transfer Performance of Pure and Hybrid Nanofluids in Minienclosure. <i>Journal of Thermophysics and Heat Transfer</i> , 2018, 32, 570-579.	0.9	5
494	Modeling thermal conductivity in refrigerants through neural networks. <i>Fluid Phase Equilibria</i> , 2018, 460, 36-44.	1.4	28
495	The fractalline properties of experimentally simulated PWR fuel crud. <i>Journal of Nuclear Materials</i> , 2018, 499, 294-300.	1.3	8
496	Modeling of Nanofluid-Fluid Two-Phase Flow and Heat Transfer. <i>International Journal of Computational Methods</i> , 2018, 15, 1850072.	0.8	6
497	Unraveling the role of the base fluid arrangement in metal-nanofluids used to enhance heat transfer in concentrating solar power plants. <i>Journal of Molecular Liquids</i> , 2018, 252, 271-278.	2.3	6
498	Buoyancy Induced Heat Transfer Flow Inside a Tilted Square Enclosure Filled with Nanofluids in the Presence of Oriented Magnetic Field. <i>Heat Transfer Engineering</i> , 2018, 39, 511-525.	1.2	30
499	Nanoparticle shape effects on squeezed MHD flow of water based Cu, Al ₂ O ₃ and SWCNTs over a porous sensor surface. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 1433-1445.	3.4	22
500	Enhancement of Heat Transfer in Partially Heated Vertical Channel Under Mixed Convection by Using Al ₂ O ₃ Nanoparticles. <i>Heat Transfer Engineering</i> , 2018, 39, 229-240.	1.2	13
501	Numerical Study of Turbulent Flow and Heat Transfer of Nanofluids in Pipes. <i>Heat Transfer Engineering</i> , 2018, 39, 241-251.	1.2	14
502	Influence of particle properties on convective heat transfer of nanofluids. <i>International Journal of Thermal Sciences</i> , 2018, 124, 187-195.	2.6	52
503	Experimental study of the thermal conductivity features of the water based Fe ₃ O ₄ /CuO nanofluid. <i>Heat and Mass Transfer</i> , 2018, 54, 999-1008.	1.2	16
504	Dramatically enhanced thermal properties for TiO ₂ -based nanofluids for being used as heat transfer fluids in concentrating solar power plants. <i>Renewable Energy</i> , 2018, 119, 809-819.	4.3	44
505	Heat transfer and flow analysis of Al ₂ O ₃ -Water nanofluids in interrupted microchannel heat sink with ellipse and diamond ribs in the transverse microchambers. <i>Heat Transfer Engineering</i> , 2018, 39, 1461-1469.	1.2	36
506	Investigation of enhanced thermal properties in NiO-based nanofluids for concentrating solar power applications: A molecular dynamics and experimental analysis. <i>Applied Energy</i> , 2018, 211, 677-688.	5.1	51
507	Effect of time dependent morphological parameters of nanoclusters on perikinetic heat conduction and induced micro-convection mechanisms of oxide based nanofluids. <i>Experimental Heat Transfer</i> , 2018, 31, 251-274.	2.3	4
508	Experiments on laminar cooling characteristics of a phase change nanofluid flow through an iso-flux heated circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 1307-1315.	2.5	22

#	ARTICLE	IF	CITATIONS
509	Borehole heat exchanger with nanofluids as heat carrier. <i>Geothermics</i> , 2018, 72, 112-123.	1.5	86
510	On the rough hard-sphere-based model for transport properties of nanofluids. <i>Fluid Phase Equilibria</i> , 2018, 458, 186-193.	1.4	12
511	Experimental study on heat transfer enhancement ability of water-based graphene oxide nanofluid. <i>International Journal of Theoretical and Applied Multiscale Mechanics</i> , 2018, 3, 161.	0.5	0
513	Nanodiamond Suspensions Application for Heat Transfer Processes Intensification. , 2018, , .		0
514	Experimental Assessment of Latent Heat of Evaporation for Hybrid Nanofluids. <i>Journal of Engineering Thermophysics</i> , 2018, 27, 560-579.	0.6	2
515	Impact of temperature and concentration dispersion on the physiology of blood nanofluid: links to atherosclerosis. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.	0.8	5
516	High thermal conductivity of nanoparticles not necessarily contributing more to nanofluids. <i>Applied Physics Letters</i> , 2018, 113, 223104.	1.5	11
517	Molecular Dynamics Investigation of Graphene Nanoplate Diffusion Behavior in Poly- α -Olefin Lubricating Oil. <i>Crystals</i> , 2018, 8, 361.	1.0	11
518	Study on the effects of graphene oxide for tribological properties and cooling in lubricating oil. <i>Materials Research Express</i> , 2018, 5, 126509.	0.8	3
519	A review of flow and heat transfer behaviour of nanofluids in micro channel heat sinks. <i>Thermal Science and Engineering Progress</i> , 2018, 8, 477-493.	1.3	65
521	Performance Evaluation Criterion of Nanofluid. , 0, , .		4
522	Numerical study of heat transfer enhancement in the entrance region for low-pressure gaseous laminar pipe flows using Al ₂ O ₃ -air nanofluid. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401878441.	0.8	14
523	Nanofluids as Novel Alternative Smart Fluids for Reservoir Wettability Alteration. , 2018, , .		5
524	A review on numerous means of enhancing heat transfer rate in solar-thermal based desalination devices. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 302-317.	8.2	79
525	Investigation on the dehumidification performance of LiCl/H ₂ O-MWNTs nanofluid in a falling film dehumidifier. <i>Building and Environment</i> , 2018, 139, 8-16.	3.0	38
526	Effect of h-BN coating on nucleate boiling heat transfer performance in pool boiling. <i>Experimental Thermal and Fluid Science</i> , 2018, 98, 12-19.	1.5	18
527	A new approach to evaluate the impact of thermophysical properties of nanofluids on heat transfer and pressure drop. <i>International Communications in Heat and Mass Transfer</i> , 2018, 95, 161-170.	2.9	23
528	A practical evaluation of the performance of Al ₂ O ₃ -water, TiO ₂ -water and CuO-water nanofluids for convective cooling. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 639-651.	2.5	28

#	ARTICLE	IF	CITATIONS
529	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
530	Wettability Effect on Pool Boiling: A Review. , 2018, , 1-61.		8
531	New nanofluids, based on clay minerals, as promising heat carriers for energetics. <i>Clay Minerals</i> , 2018, 53, 255-269.	0.2	5
532	Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications. <i>Applied Energy</i> , 2018, 228, 351-389.	5.1	113
533	Experimental investigation of transient melting and heat transfer behavior of nanoparticle-enriched PCM in a rectangular enclosure. <i>Journal of Energy Storage</i> , 2018, 18, 485-497.	3.9	60
534	Thermal Conductivity of Complex Plasmas Using Novel Evan-Gillan Approach. <i>Communications in Theoretical Physics</i> , 2018, 69, 704.	1.1	10
535	Analysis of mixed convection flow in an inclined lid-driven enclosure with Buongiorno's nanofluid model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 221-236.	2.5	37
536	Thermal analysis of cellulose nanocrystal-ethylene glycol nanofluid coolant. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 173-181.	2.5	23
537	Experimental Investigation on Effect of Nano Fluids in the Behaviour of a Compression Ignition Engine Fueled with Diesel Biofuel Blends. , 2018, , .		2
538	A Realistic Look at Nanostructured Material as an Innovative Approach for Enhanced Oil Recovery Process Upgrading. , 2018, , .		5
539	Ethylene glycol based silicon nitride nanofluids: An experimental study on their thermophysical, electrical and optical properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 104, 82-90.	1.3	35
540	Towards the improvement of the global efficiency of concentrating solar power plants by using Pt-based nanofluids: The internal molecular structure effect. <i>Applied Energy</i> , 2018, 228, 2262-2274.	5.1	16
541	The Combined Magneto Hydrodynamic and Electric Field Effect on an Unsteady Maxwell Nanofluid Flow over a Stretching Surface under the Influence of Variable Heat and Thermal Radiation. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 160.	1.3	66
542	Heat Transfer in Suspension Plasma Spraying. , 2018, , 2923-2966.		4
543	Thermal analysis of SUS 304 stainless steel using ethylene glycol/nanocellulose-based nanofluid coolant. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 2061-2076.	1.5	16
544	The features of the modeling the nanofluid flows. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
545	Experimental and numerical study on the regeneration performance of LiCl solution with surfactant and nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 154-164.	2.5	35
546	4.2 Heat Exchangers. , 2018, , 40-69.		3

#	ARTICLE	IF	CITATIONS
547	Fabrication and Investigation of Silver Water Nanofluids for Long-term Heat Transfer Application. , 2018, , 779-791.		1
548	Thermal Conductivity Enhancement Phenomena in Ionic Liquid-Based Nanofluids (Ionanofluids). Australian Journal of Chemistry, 2019, 72, 21.	0.5	23
549	Density and rheological properties of different nanofluids based on diesel oil at different mass concentrations. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1229-1242.	2.0	32
550	Ferromagnetic nano model study for the peristaltic flow in a plumb duct with permeable walls. Microsystem Technologies, 2019, 25, 1227-1234.	1.2	12
551	Thermal Transport in Sheared Nanoparticle Suspensions: Effect of Temperature. Heat Transfer Engineering, 2019, 40, 1383-1392.	1.2	2
552	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. Journal of Thermal Analysis and Calorimetry, 2019, 135, 713-728.	2.0	41
553	Heat capacity of (ethanol+â€%diamond) nanofluid near the critical point of base fluid (ethanol). Journal of Thermal Analysis and Calorimetry, 2019, 135, 1335-1349.	2.0	6
554	Experimental investigation on heat transfer enhancement for a ferrofluid in a helically coiled pipe under constant magnetic field. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1069-1079.	2.0	28
555	A concise review on the role of nanoparticles upon the productivity of solar desalination systems. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1145-1159.	2.0	125
556	Modified Lewis Number and Buoyancy Ratio Effects on Turbulent Double-Diffusive Convection in Porous Media Using the Thermal Nonequilibrium Model. Journal of Heat Transfer, 2019, 141, .	1.2	4
557	Multi-objective optimization on the machining parameters for bio-inspired nanocoolant. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1533-1544.	2.0	10
558	Experimental Study on Heat Treatment of SS 420 and EN 24 Using Nanoparticulate Quenching Process. International Journal of Nanoscience, 2019, 18, 1850040.	0.4	0
559	Synthesis, characterization, stability and thermal conductivity of multi-walled carbon nanotubes (MWCNTs) and eco-friendly jatropha seed oil based nanofluid: An experimental investigation and modeling approach. Journal of Molecular Liquids, 2019, 293, 111534.	2.3	59
560	Variations in drag and heat transfer at a vertical plate due to steady flow of a colloidal suspension of nano particles in a base fluid. Materials Today: Proceedings, 2019, 18, 2084-2088.	0.9	1
561	Effect of viscous dissipation on Cuâ€%water and Cuâ€%kerosene nanofluids of axisymmetric radiative squeezing flow. Heat Transfer - Asian Research, 2019, 48, 3039-3054.	2.8	31
562	Numerical simulation of the magnetic field and Joule heating effects on force convection flow through parallel-plate microchannel in the presence of viscous dissipation effect. Numerical Heat Transfer; Part A: Applications, 2019, 76, 499-516.	1.2	36
563	Enhancing the Heat Transfer in an Active Barocaloric Cooling System Using Ethylene-Glycol Based Nanofluids as Secondary Medium. Energies, 2019, 12, 2902.	1.6	27
564	Entropy Generation Optimization in Squeezing Magnetohydrodynamics Flow of Casson Nanofluid with Viscous Dissipation and Joule Heating Effect. Entropy, 2019, 21, 747.	1.1	25

#	ARTICLE	IF	CITATIONS
565	A comparative study in the prediction of thermal conductivity enhancement of nanofluids using ANN-MLP, ANN-RBF, ANFIS, and GMDH methods. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 2629-2637.	1.2	6
566	Experimental investigation on the thermal performance of ultra-stable kerosene-based MWCNTs and Graphene nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104334.	2.9	21
567	Four objective optimization of aluminum nanoparticles/oil, focusing on thermo-physical properties optimization. <i>Powder Technology</i> , 2019, 356, 832-846.	2.1	15
568	MHD natural convection and thermal control inside a cavity with obstacles under the radiation effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122443.	1.2	47
569	The stability and thermophysical properties of a thermal fluid containing surface-functionalized nanoencapsulated PCM. <i>Thermochimica Acta</i> , 2019, 682, 178406.	1.2	29
570	Effect of an uniform magnetic field on unsteady natural convection of nanofluid. <i>Journal of Taibah University for Science</i> , 2019, 13, 1073-1086.	1.1	9
571	Nanofluids flow over a permeable unsteady stretching surface with non-uniform heat source/sink in the presence of inclined magnetic field. <i>Journal of the Egyptian Mathematical Society</i> , 2019, 27, .	0.6	48
572	Review on Numerical Simulations for Solidification & Melting of Nano-Enhanced Phase Change Materials (NEPCM). <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012114.	0.2	1
573	Microstructure and inertial effects on natural convection micropolar nanofluid flow about a solid sphere. <i>International Journal of Ambient Energy</i> , 2022, 43, 666-677.	1.4	12
574	Particle size and concentration effect on thermal diffusivity of water-based ZnO nanofluid using the dual-beam thermal lens technique. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	20
575	Darcy–Forchheimer stratified flow of viscoelastic nanofluid subjected to convective conditions. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 2031-2037.	1.6	23
576	Experimental Study of Heat Transfer Characteristics of Al ₂ O ₃ and CuO Nanofluids for Machining Application. <i>Materials Today: Proceedings</i> , 2019, 18, 788-797.	0.9	22
577	Nanotechnology in machining processes: recent advances. <i>Procedia CIRP</i> , 2019, 79, 3-8.	1.0	15
578	Optical characterisation of oxidised carbon nanohorn nanofluids for direct solar energy absorption applications. <i>Solar Energy</i> , 2019, 191, 323-331.	2.9	8
579	Numerical Simulation of the Flow of Nano-Eyring-Powell Fluid through a Curved Artery with Time-Variant Stenosis and Aneurysm. <i>Nihon Reorogi Gakkaishi</i> , 2019, 47, 75-85.	0.2	20
580	Investigation of Exergy of Double-Pipe Heat Exchanger Using Synthesized Hybrid Nanofluid Developed by Modeling. <i>International Journal of Thermophysics</i> , 2019, 40, 1.	1.0	22
581	Photo-thermal conversion characteristics of carbon black-ethylene glycol nanofluids for applications in direct absorption solar collectors. <i>Applied Thermal Engineering</i> , 2019, 163, 114402.	3.0	64
582	Experimental and numerical analysis of rheological characterization of hybrid nano-lubricants containing COOH-Functionalized MWCNTs and oxide nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2019, 101, 103-115.	2.9	42

#	ARTICLE	IF	CITATIONS
583	Interaction effects of an inclined magnetic field and nanofluid on forced convection heat transfer and flow irreversibility in a duct with an abrupt contraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 478, 216-226.	1.0	39
584	Assessment of the thermal performance of a thermosyphon heat pipe using zirconia-acetone nanofluids. <i>Renewable Energy</i> , 2019, 136, 884-895.	4.3	104
585	Thermal Evaluation of Graphene Nanoplatelets Nanofluid in a Fast-Responding HP with the Potential Use in Solar Systems in Smart Cities. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2101.	1.3	63
586	Heat transfer analysis of Ga-In-Sn in a compact heat exchanger equipped with straight micro-passages. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 675-684.	2.5	62
587	2D MoSe ₂ -based nanofluids prepared by liquid phase exfoliation for heat transfer applications in concentrating solar power. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109972.	3.0	28
588	Study of Three dimensional Darcy-Forchheimer squeezing nanofluid flow with Cattaneo-Christov heat flux based on four different types of nanoparticles through entropy generation analysis. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401985130.	0.8	17
589	Rheological properties of super critical CO ₂ with Al ₂ O ₃ : Material type, size and temperature effect. <i>Journal of Molecular Liquids</i> , 2019, 289, 111037.	2.3	11
590	Corrosion Evaluation of 316L Stainless Steel in CNT-Water Nanofluid: Effect of CNTs Loading. <i>Materials</i> , 2019, 12, 1634.	1.3	15
591	Numerical treatment for fluidic system of activation energy with non-linear mixed convective and radiative flow of magneto nanomaterials with Navier's velocity slip. <i>AIP Advances</i> , 2019, 9, .	0.6	25
592	Significance of alumina in nanofluid technology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1107-1126.	2.0	55
593	Experimental study on the thermal conductivity and viscosity of ethylene glycol-based nanofluid containing diamond-silver hybrid material. <i>Diamond and Related Materials</i> , 2019, 96, 216-230.	1.8	50
594	Heat Transfer Enhancement in Oblique Finned Channel. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 157-167.	0.3	6
595	Experimental investigation of hybrid nano-lubricant for rheological and thermal engineering applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1823-1839.	2.0	40
596	Theoretical Investigation of Al ₂ O ₃ Nanoparticle Slip Mechanisms in High-Viscosity Two-Component Mixture in Two-Phase Flow. <i>Journal of Heat Transfer</i> , 2019, 141, .	1.2	2
597	An optimization of heat transfer of nanofluid flow in a helically coiled pipe using Taguchi method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1779-1792.	2.0	27
598	Improve the thermal conductivity of 10w40-engine oil at various temperature by addition of Al ₂ O ₃ /Fe ₂ O ₃ nanoparticles. <i>Journal of Molecular Liquids</i> , 2019, 283, 660-666.	2.3	90
599	Heat transfer performance of a nano-enhanced propylene glycol:water mixture. <i>International Journal of Thermal Sciences</i> , 2019, 139, 413-423.	2.6	25
600	Determination of Transport Properties of Glycol-Based NanoFluids Derived from Surface Functionalized Graphene. <i>Nanomaterials</i> , 2019, 9, 252.	1.9	16

#	ARTICLE	IF	CITATIONS
601	INFLUENCE OF INTERFACIAL PHENOMENA ON VISCOSITY AND THERMAL CONDUCTIVITY OF NANOFUIDS. Interfacial Phenomena and Heat Transfer, 2019, 7, 151-165.	0.3	3
602	Nanoparticle transport phenomena in confined flows. Advances in Heat Transfer, 2019, 51, 55-129.	0.4	8
603	Allotropic transformation instigated thermal diffusivity of soot nanofluid: Thermal lens study. Physics of Fluids, 2019, 31, .	1.6	15
604	Laser-Induced Deposition of Carbon Nanotubes in Fiber Optic Tips of MMI Devices. Sensors, 2019, 19, 4512.	2.1	3
605	Acoustic Method for Determination of the Thermal Properties of Nanofluids. Industrial & Engineering Chemistry Research, 2019, 58, 19719-19731.	1.8	9
606	Exploring ferrofluids for heat transfer augmentation. Journal of Magnetism and Magnetic Materials, 2019, 475, 389-400.	1.0	20
607	Numerical Study of Heat Transfer Enhancement Using Al ₂ O ₃ –Graphene/Water Hybrid Nanofluid Flow in Mini Tubes. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 1989-2000.	0.7	25
608	Nanodiamond nanofluid microstructural and thermo-electrical characterization. International Communications in Heat and Mass Transfer, 2019, 101, 82-88.	2.9	38
609	Investigating heat transfer properties of copper nanofluid in ethylene glycol synthesized through single and two-step routes. International Journal of Refrigeration, 2019, 99, 243-250.	1.8	33
610	Thermo-physical properties of diamond nanofluids: A review. International Journal of Heat and Mass Transfer, 2019, 129, 1123-1135.	2.5	67
611	Heat Transfer Enhancement by Sinusoidal Motion of a Water-Based Nanofluid. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	2
612	Experimental Study on the Thermal Conductivity of Silver Nanoparticles Synthesized Using Sargassum Angostifolium. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 251-257.	0.8	5
613	A proposed model to predict thermal conductivity ratio of Al ₂ O ₃ /EG nanofluid by applying least squares support vector machine (LSSVM) and genetic algorithm as a connectionist approach. Journal of Thermal Analysis and Calorimetry, 2019, 135, 271-281.	2.0	109
614	Experimental investigation and prediction of the thermal conductivity of water-based oxide nanofluids with low volume fractions. Journal of Thermal Analysis and Calorimetry, 2019, 135, 257-269.	2.0	5
615	Lie group analysis and general forms of self-similar parabolic equations for fluid flow, heat and mass transfer of nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 135, 223-235.	2.0	15
616	An Experimental Investigation on the Effect of Ferrofluids on the Efficiency of Novel Parabolic Trough Solar Collector Under Laminar Flow Conditions. Heat Transfer Engineering, 2019, 40, 753-761.	1.2	29
617	Analysis of magnetic properties of nanoparticles due to applied magnetic dipole in aqueous medium with momentum slip condition. Neural Computing and Applications, 2019, 31, 189-197.	3.2	21
618	Al ₂ O ₃ -Water Nanofluid Jet Impingement Cooling With Magnetic Field. Heat Transfer Engineering, 2020, 41, 50-64.	1.2	39

#	ARTICLE	IF	CITATIONS
619	Buoyancy-Aided Mixed Convection Between Shear-Thinning Non-Newtonian Nanofluids and Unbounded Elliptic Cylinders in a Vertical Channel. <i>Heat Transfer Engineering</i> , 2020, 41, 536-550.	1.2	4
620	Experimental investigations on thermal properties of nano-SiO ₂ /paraffin phase change material (PCM) for solar thermal energy storage applications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 2420-2433.	1.2	97
621	An experimental study to investigate the dynamic behaviour of thermal conductivity for different concentrations of Al ₂ O ₃ nanofluid. <i>International Journal of Ambient Energy</i> , 2020, 41, 1321-1326.	1.4	2
622	MHD Influence on different water based nanofluids (TiO ₂ , Al ₂ O ₃ , CuO) in porous medium with chemical reaction and newtonian heating. <i>Chaos, Solitons and Fractals</i> , 2020, 130, 109437.	2.5	70
623	Inspection of Coriolis and Lorentz forces in nanomaterial flow of non-Newtonian fluid with activation energy. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 123057.	1.2	13
624	The use of barocaloric effect for energy saving in a domestic refrigerator with ethylene-glycol based nanofluids: A numerical analysis and a comparison with a vapor compression cooler. <i>Energy</i> , 2020, 190, 116404.	4.5	47
625	Enhanced thermal conductivity and reduced viscosity of aegirine-based VR/VGO nanofluids for enhanced thermal oil recovery application. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106569.	2.1	13
626	Modelling and optimization of thermophysical properties of aqueous titania nanofluid using response surface methodology. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3051-3063.	2.0	32
627	Surface tension of ethylene glycol-based nanofluids containing various types of nitrides. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 799-806.	2.0	36
628	Heat transfer and pressure drop investigation through pipe with different shapes using different types of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1637-1653.	2.0	51
629	Mass Transfer in the Gas Phase. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020, , 51-77.	0.2	0
630	Additives for Gases and Liquids. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020, , 79-118.	0.2	1
631	Studying the effect of radiation on thin-film sprayed nanofluid flow with heat transfer. <i>Heat Transfer - Asian Research</i> , 2020, 49, 5-17.	2.8	2
632	The statistical investigation of multi-grade oil based nanofluids: Enriched by MWCNT and ZnO nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 554, 122159.	1.2	14
633	ISPH method for MHD convective flow from grooves inside a nanofluid-filled cavity under the effects of Soret and Dufour numbers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 546, 124087.	1.2	33
635	Numerical simulation of aggregation effect on nanofluids thermal conductivity using the lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104408.	2.9	27
636	Significance of non-uniform heat generation/absorption in hydromagnetic flow of nanofluid due to stretching/shrinking disk. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 553, 123970.	1.2	22
637	On evaluation of thermophysical properties of transformer oil-based nanofluids: A comprehensive modeling and experimental study. <i>Journal of Molecular Liquids</i> , 2020, 300, 112249.	2.3	61

#	ARTICLE	IF	CITATIONS
638	Experimental and comparative theoretical study of thermal conductivity of MWCNTs-kapok seed oil-based nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104402.	2.9	14
639	Nitrate based nanocomposite thermal storage materials: Understanding the enhancement of thermophysical properties in thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2020, 216, 110727.	3.0	15
640	The potential benefits of surface corrugation and hybrid nanofluids in channel flow on the performance enhancement of a thermo-electric module in energy systems. <i>Energy</i> , 2020, 213, 118520.	4.5	24
641	Thermal performance of a flat-plate solar collector using aqueous colloidal dispersions of multi-walled carbon nanotubes with different outside diameters. <i>Experimental Heat Transfer</i> , 2022, 35, 258-281.	2.3	12
642	Developing free-volume models for nanofluid viscosity modeling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 777-790.	2.0	1
643	Activation energy impact on radiated magneto-Sisko nanofluid flow over a stretching and slipping cylinder: entropy analysis. <i>Multidiscipline Modeling in Materials and Structures</i> , 2020, 16, 1085-1115.	0.6	25
644	Shear flow behavior and dynamic viscosity of few-layer graphene nanofluids based on propylene glycol-water mixture. <i>Journal of Molecular Liquids</i> , 2020, 316, 113875.	2.3	19
645	Numerical Study of Enhanced Heat Transfer of MicroChannel Heat Sink with Nanofluids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 721, 012052.	0.3	5
646	Theoretical comparative assessment of single- and two-phase models for natural convection heat transfer of Fe ₃ O ₄ /ethylene glycol nanofluid in the presence of electric field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 146, 981.	2.0	3
647	Recent Advances in the Critical Heat Flux Amelioration of Pool Boiling Surfaces Using Metal Oxide Nanoparticle Deposition. <i>Energies</i> , 2020, 13, 4026.	1.6	21
648	Numerical analysis of entropy generation in viscous nanofluid stretched flow. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104772.	2.9	15
649	Experimental Study of Forced Convective Heat Transfer in a Coiled Flow Inverter Using TiO ₂ ‐Water Nanofluids. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5225.	1.3	6
650	Transparent nanofluids with high thermal conductivity for improved convective thermal management of optoelectronic devices. <i>Experimental Heat Transfer</i> , 2022, 35, 183-195.	2.3	6
651	Role of Phase-Dependent Dielectric Properties of Alumina Nanoparticles in Electromagnetic-Assisted Enhanced Oil Recovery. <i>Nanomaterials</i> , 2020, 10, 1975.	1.9	6
652	Face-centred cubic CuO nanocrystals for enhanced pool-boiling critical heat flux and higher thermal conductivities. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120391.	2.5	10
653	Thermal and Fluid-Flow Characteristics of Silver-Water Nanofluid in a Metal-Foam Filled Channel. <i>Heat Transfer Engineering</i> , 2021, 42, 1827-1845.	1.2	2
654	Boiling heat transfer characteristics of graphene oxide nanoplatelets nano-suspensions of water-perfluorohexane (C ₆ F ₁₄) and water-n-pentane. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4511-4521.	3.4	76
655	Recent Advances in Preparation, Mechanisms, and Applications of Thermally Conductive Polymer Composites: A Review. <i>Journal of Composites Science</i> , 2020, 4, 180.	1.4	53

#	ARTICLE	IF	CITATIONS
656	Experimental and numerical investigation of diffusion absorption refrigeration system working with ZnO/Al ₂ O ₃ and TiO ₂ nanoparticles added ammonia/water nanofluid. <i>Experimental Heat Transfer</i> , 2020, , 1-26.	2.3	13
657	Numerical Modelling of Fluid Flow and Heat Transfer of (TiO ₂ -Water) Nanofluids in Wavy duct. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 881, 012162.	0.3	2
658	Downscaling of sample entropy of nanofluids by carbon allotropes: A thermal lens study. <i>Chaos</i> , 2020, 30, 073116.	1.0	7
659	Predicting the thermal conductivity enhancement of nanofluids using computational intelligence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126500.	0.9	80
660	Organometallic Sodium Carbide for Heat Transfer Applications: A Thermal Lens Study. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	1.0	9
661	Analysis of transport processes in a reacting flow of hybrid nanofluid around a bluff-body embedded in porous media using artificial neural network and particle swarm optimization. <i>Journal of Molecular Liquids</i> , 2020, 313, 113492.	2.3	67
662	MHD Natural Convection of a Fe ₃ O ₄ -Water Nanofluid within an Inside Round Diagonal Corner Square Cavity with Existence of Magnetic Source. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3236.	1.3	6
663	A machine learning-based model to estimate the density of nanofluids of nitrides in ethylene glycol. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	17
664	Effect of Nanofluid Thermophysical Properties on the Performance Prediction of Single-Phase Natural Circulation Loops. <i>Energies</i> , 2020, 13, 2523.	1.6	6
665	New trends of fractional modeling and heat and mass transfer investigation of (SWCNTs and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Chinese Journal of Physics, 2020, 66, 497-516.	2.0	58
666	Advanced fluids – a review of nanofluid transport and its applications. , 2020, , 281-382.		4
667	Presenting two new empirical models for calculating the effective dynamic viscosity and thermal conductivity of nanofluids. <i>Powder Technology</i> , 2020, 366, 788-820.	2.1	49
668	Factors affecting thermal conductivities of the polymers and polymer composites: A review. <i>Composites Science and Technology</i> , 2020, 193, 108134.	3.8	434
669	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
670	Thermo-acoustic investigations of molecular interactions in CuO nano particles contained aqueous solutions of some glycols. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
671	Preliminary SWCNTs-kerosene on Carreau MHD flow over a wall with distinct thickness. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 824, 012010.	0.3	0
672	Nanoparticles as fuel additive for improving performance and reducing exhaust emissions of internal combustion engines. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 319-341.	1.8	21
673	An updated review on the properties, fabrication and application of hybrid-nanofluids along with their environmental effects. <i>Journal of Cleaner Production</i> , 2020, 257, 120408.	4.6	173

#	ARTICLE	IF	CITATIONS
674	Thermal performance of a flat-plate solar collector using aqueous colloidal dispersions of graphene nanoplatelets with different specific surface areas. <i>Applied Thermal Engineering</i> , 2020, 172, 115142.	3.0	29
675	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
676	Introduction to nanofluids. , 2020, , 1-50.		1
677	Cooling performance of Newtonian and non-Newtonian nanofluids in a square channel: experimental investigation and ANN modeling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 2189-2202.	2.0	3
678	Thermal conductivity and structuring of multiwalled carbon nanotubes based nanofluids. <i>Journal of Molecular Liquids</i> , 2020, 307, 112977.	2.3	24
679	Challenges and opportunities for nanomaterials in spectral splitting for high-performance hybrid solar photovoltaic-thermal applications: A review. <i>Nano Materials Science</i> , 2020, 2, 183-203.	3.9	79
680	Nanofluids for Power Engineering: The Mechanism of the Influence of Dispersing Agents on the Thermal Parameters and Crisis Phenomena during Boiling. <i>Technical Physics</i> , 2020, 65, 163-173.	0.2	1
681	Enhanced thermal conductivity of nanofluids made of metal oxide nanostructures synthesized by arc discharge method. <i>International Journal of Modern Physics B</i> , 2020, 34, 2040001.	1.0	1
682	Optimization of heat transfer properties on ferrofluid flow over a stretching sheet in the presence of static magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1253-1270.	2.0	15
683	Experimental investigation and optimization of loop heat pipe performance with nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1435-1449.	2.0	9
684	Lie symmetry reductions and exact solutions for magnetohydrodynamic flow and heat transfer of third grade nanofluid with thermal radiation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1957-1972.	2.0	5
685	An updated review of nanofluids in various heat transfer devices. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2817-2872.	2.0	187
686	Impact of orientation and water depth on productivity of single-basin dual-slope solar still with Al ₂ O ₃ and CuO nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 899-913.	2.0	44
687	Experimental studies on thermosyphon using low global warming potential refrigerant HFE7000 and nanorefrigerant HFE7000/Al ₂ O ₃ . <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 707-717.	1.4	6
688	Thermal analysis of a binary base fluid in pool boiling system of glycol-water alumina nano-suspension. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2453-2462.	2.0	40
689	Molecular dynamics simulation of water-based nanofluids viscosity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2983-2990.	2.0	12
690	Diamond Nanofluids: Microstructural Analysis and Heat Transfer Study. <i>Heat Transfer Engineering</i> , 2021, 42, 479-491.	1.2	9
691	Thermal performances and stabilities of nanofluids in an electrical oil heater. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 3195-3206.	2.0	4

#	ARTICLE	IF	CITATIONS
692	Experimental optimization of nanofluids based direct absorption solar collector by optical boundary conditions. <i>Applied Thermal Engineering</i> , 2021, 182, 116076.	3.0	29
693	Laminar forced convection heat transfer of nanofluids inside non-circular ducts: A review. <i>Powder Technology</i> , 2021, 378, 808-830.	2.1	31
694	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
695	Ultrasonic assisted new Al ₂ O ₃ @TiO ₂ -ZnO/DW ternary composites nanofluids for enhanced energy transportation in a closed horizontal circular flow passage. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105018.	2.9	26
696	Rheological and tribological characterization of novel modified graphene/oil based nanofluids using force microscopy. <i>Microscopy Research and Technique</i> , 2021, 84, 814-827.	1.2	2
697	Onset of synchronous and asynchronous convection in modulated nanofluid filled porous media. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021, 101, e201900317.	0.9	1
698	Experimental investigation on photothermal conversion using solar glycol/MWCNTs based nanofluids. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 259-265.	1.4	4
699	Performance evaluation of a U-shaped heat exchanger containing hybrid Cu/CNTs nanofluids: experimental data and modeling using regression and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1503-1521.	2.0	7
700	Development and validation of a mathematical model to predict the thermal behaviour of nanofluids. <i>Heat and Mass Transfer</i> , 2021, 57, 93-110.	1.2	5
701	The interfacial nanolayer role on magnetohydrodynamic natural convection of an Al ₂ O ₃ -water nanofluid. <i>Heat Transfer Engineering</i> , 2021, 42, 89-105.	1.2	16
702	Natural and Mixed Convection Study of Isothermally Heated Cylinder in a Lid-Driven Square Enclosure Filled with Nanofluid. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 2505-2525.	1.7	6
703	Heat transfer enhancement in the complex geometries filled with porous media. <i>Thermal Science</i> , 2021, 25, 39-57.	0.5	12
704	A recent examination on the nano coating techniques in heat transfer applications. <i>Materials Today: Proceedings</i> , 2021, 46, 7942-7947.	0.9	6
705	A numerical comparison among different water based hybrid nanofluids on their influences on natural convection heat transfer in a triangular solar collector for different tilt angles. <i>Heat Transfer</i> , 2021, 50, 4264-4288.	1.7	6
706	Fe ₃ O ₄ -Water Nanofluid Free Convection within an Inclined 2D Rectangular Enclosure Heated by Solar Energy Using Finned Absorber Plate. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 486.	1.3	2
707	Hall current effects on a magnetic nanofluid layer under temperature gradient. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	7
708	Lattice Boltzmann Simulation of Nanoparticle Transport and Attachment in a Microchannel Heat Sink. <i>Fluid Dynamics and Materials Processing</i> , 2021, 17, 301-317.	0.5	0
709	Thermal Conductivity Calculations for Nanoparticles Embedded in a Base Fluid. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1459.	1.3	13

#	ARTICLE	IF	CITATIONS
710	Influence of hybrid nanofluids and heat generation on coupled heat and mass transfer flow of a viscous fluid with novel fractional derivative. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2057.	2.0	30
711	Heat Transfer Enhancement of Nanofluid Flow in a Tube Equipped with Rotating Twisted Tape Inserts: A Two-Phase Approach. <i>Heat Transfer Engineering</i> , 2022, 43, 608-622.	1.2	21
712	Thermal-hydraulic analysis and irreversibility of the MWCNTs-SiO ₂ /EG-H ₂ O non-Newtonian hybrid nanofluids inside a zigzag micro-channels heat sink. <i>International Communications in Heat and Mass Transfer</i> , 2021, 122, 105158.	2.9	37
713	Experimental Measurements of Thermal Conductivity for Non-Newtonian Polymeric Fluids Using a Concentric Cylindrical Cell Under Static Conditions. <i>International Journal of Thermophysics</i> , 2021, 42, 1.	1.0	0
714	Prediction of mechanical and thermal properties of particle reinforced hydrogel composites using the structural genome approach. <i>International Journal of Computational Materials Science and Engineering</i> , 2021, 10, 2150004.	0.5	1
715	Bor BileÅŸiklerinin Solar Tuzun Termo-Fiziksel Å–zelliklerine Etkileri. <i>Savunma Bilimleri Dergisi</i> , 0, , 305-322.	0.3	0
716	Effect of Flow and Heat Transfer of Vertical Magnetic Field to Fe ₃ O ₄ -H ₂ O Nanofluids. <i>Nano</i> , 2021, 16, 2150053.	0.5	0
717	Nanofluid and nanoemulsion absorbents for the enhancement of CO ₂ absorption performance. <i>Journal of Cleaner Production</i> , 2021, 291, 125848.	4.6	14
718	Heat transfer analysis of MHD rotating flow of Fe ₃ O ₄ nanoparticles through a stretchable surface. <i>Communications in Theoretical Physics</i> , 2021, 73, 075004.	1.1	40
719	Improving the performance of LPG with graphene-nanolubricant in a domestic refrigerator: an artificial intelligence approach. <i>International Journal of Ambient Energy</i> , 2022, 43, 4512-4527.	1.4	7
720	Experimental Study on the Enhanced Thermal Performance of Two-Phase Closed Thermosyphon Using Mechanical and Chemical Treated MWCNTs Nanofluids. <i>Microgravity Science and Technology</i> , 2021, 33, 1.	0.7	3
721	Numerical Simulation for Convective Heat and Mass Transfer Effect of Micropolar Nanofluid Flow with Variable Viscosity and Radiation. <i>WSEAS Transactions on Heat and Mass Transfer</i> , 2021, 16, 29-33.	0.6	1
722	Prospects for the use of nanofluids in heating systems. <i>Journal of Physics: Conference Series</i> , 2021, 1926, 012033.	0.3	1
723	Recent advances on nanofluids for low to medium temperature solar collectors: energy, exergy, economic analysis and environmental impact. <i>Progress in Energy and Combustion Science</i> , 2021, 84, 100898.	15.8	166
724	Machine learning specific heat capacities of nanofluids containing CuO and Al ₂ O ₃ . <i>AIChE Journal</i> , 2021, 67, e17289.	1.8	18
725	A comprehensive review on development of eutectic organic phase change materials and their composites for low and medium range thermal energy storage applications. <i>Solar Energy Materials and Solar Cells</i> , 2021, 223, 110955.	3.0	152
726	Tailoring the Thermal Conductivity of Rubber Nanocomposites by Inorganic Systems: Opportunities and Challenges for Their Application in Tires Formulation. <i>Molecules</i> , 2021, 26, 3555.	1.7	18
727	Thermal Effect on Deformation of Nanofluid-Encapsulated Double Emulsion Droplets Flowing in a Constricted Microchannel. <i>Heat Transfer Engineering</i> , 0, , 1-15.	1.2	1

#	ARTICLE	IF	CITATIONS
728	Lubrication mechanism of graphene nanoplates as oil additives for ceramics/steel sliding components. <i>Ceramics International</i> , 2021, 47, 16935-16942.	2.3	26
729	Numerical simulation of photovoltaic thermal air panel with phase change materials. <i>Renewable Energy Focus</i> , 2021, 37, 27-35.	2.2	3
730	Mixed convective flow of H_2O magnetic nanofluid over a curved surface with volumetric heat generation and temperature dependent viscosity. <i>Heat Transfer</i> , 2021, 50, 7251-7270.	1.7	46
731	Magnetic dipole and thermal radiation effects on hybrid base micropolar CNTs flow over a stretching sheet: Finite element method approach. <i>Results in Physics</i> , 2021, 25, 104145.	2.0	37
732	Implementation of DRBEM for the determination of the heat flux in an inverse problem. <i>Communications Faculty of Science University of Ankara Series A1 Mathematics and Statistics</i> , 2021, 70, 397-425.	0.2	0
733	Hydrodynamic Analysis of Laminar Mixed Convective Flow of Ag-TiO ₂ -Water Hybrid Nanofluid in a Horizontal Annulus. <i>CFD Letters</i> , 2021, 13, 45-57.	0.4	0
734	Spectral relaxation computation of electroconductive nanofluid convection flow from a moving surface with radiative flux and magnetic induction. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 1158-1171.	1.5	2
735	Extensive examination of sonication duration impact on stability of Al ₂ O ₃ -Polyol ester nanolubricant. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105418.	2.9	12
736	Effective Parameters on Increasing Efficiency of Microscale Heat Sinks and Application of Liquid Cooling in Real Life. , 0, , .		3
737	Solar Thermal Conversion of Plasmonic Nanofluids: Fundamentals and Applications. , 0, , .		4
738	An open-access database of the thermophysical properties of nanofluids. <i>Journal of Molecular Liquids</i> , 2021, 333, 115140.	2.3	13
739	Nanofluids for the Next Generation Thermal Management of Electronics: A Review. <i>Symmetry</i> , 2021, 13, 1362.	1.1	27
740	A review on nanofluids in minimum quantity lubrication machining. <i>Journal of Manufacturing Processes</i> , 2021, 68, 56-70.	2.8	46
741	A critical review on nanorefrigerants: Boiling, condensation and tribological properties. <i>International Journal of Refrigeration</i> , 2021, 128, 139-152.	1.8	8
742	A decoupled wavelet approach for multiple physical flow fields of binary nanofluid in double-diffusive convection. <i>Applied Mathematics and Computation</i> , 2021, 404, 126232.	1.4	1
743	Thermal performance evaluation for alumina coated MWCNTs composite nanofluid in annular passage of various eccentricities. <i>Powder Technology</i> , 2021, 391, 114-132.	2.1	10
744	Nanofluids improve energy efficiency of membrane distillation. <i>Nano Energy</i> , 2021, 88, 106235.	8.2	21
745	Experimental and numerical study on the flow and heat transfer characteristic of nanofluid in the recirculation zone of backward-facing step microchannels. <i>Applied Thermal Engineering</i> , 2021, 199, 117527.	3.0	19

#	ARTICLE	IF	CITATIONS
746	Effect of nanoparticles as a substitute for kinetic additives on the hydrate-based CO ₂ capture. Chemical Engineering Journal, 2021, 424, 130329.	6.6	30
747	Conjugate heat and mass transfer in nanofluids. , 2022, , 189-215.		0
748	MHD Casson nanofluid flow in a square enclosure with non-uniform heating using the Brinkman model. European Physical Journal Plus, 2021, 136, 1.	1.2	13
749	Darcy-Forchheimer characteristics of viscoelastic stratified nanoliquid by convectively heated permeable surface. Thermal Science, 2021, 25, 1057-1065.	0.5	0
752	A Review on the Enhancement of Heat Exchanging Process Using TiO ₂ Nanofluids. Lecture Notes in Mechanical Engineering, 2020, , 607-620.	0.3	3
753	Experimental and Theoretical Investigation of Thermophysical Properties of Synthesized Hybrid Nanofluid Developed by Modeling Approaches. Arabian Journal for Science and Engineering, 2020, 45, 7205-7218.	1.7	9
754	The effect of the addition of TiO ₂ nanoparticles to coal-water fuel on its thermophysical properties and combustion parameters. Fuel, 2020, 267, 117220.	3.4	22
755	Investigation of the thermophysical properties and stability performance of non-covalently functionalized graphene nanoplatelets with Pluronic P-123 in different solvents. Materials Chemistry and Physics, 2018, 206, 94-102.	2.0	33
756	Recent advances in application of nanomaterials as additives for drilling fluids. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-24.	1.2	3
757	Experimental Evaluation in Thermal Conductivity Enhancement and Heat Transfer Optimization of Eco-Friendly Al ₂ O ₃ â€“Pure Coconut Oil Based Nano Fluids. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	5
758	On the Possibility of a Radical Increase in Thermal Conductivity by Dispersed Particles. Russian Journal of Applied Chemistry, 2020, 93, 1796-1814.	0.1	10
759	Applications of Nanofluids: Current and Future. Advances in Mechanical Engineering, 2010, 2, 519659.	0.8	567
760	Heat Transfer Mechanisms and Clustering in Nanofluids. Advances in Mechanical Engineering, 2010, 2, 795478.	0.8	36
761	Water-Based Fe ₂ O ₃ Nanofluid Characterization: Thermal Conductivity and Viscosity Measurements and Correlation. Advances in Mechanical Engineering, 2012, 4, 674947.	0.8	58
762	Nanotechnology and Performance Development of Cutting Fluids: The Enhanced Heat Transfer Capabilities of Nanofluids. , 2017, , 103-148.		2
763	Numerical Study of Improvement in Heat Transfer Coefficient of Cu-O Water Nanofluid in the Shell and Tube Heat Exchangers. Biosciences, Biotechnology Research Asia, 2014, 11, 739-747.	0.2	4
764	Effect of nanoparticles concentration on electromagnetic-assisted oil recovery using ZnO nanofluids. PLoS ONE, 2020, 15, e0244738.	1.1	16
765	Thermal Conductivity and Rheological Behaviour of Al-alloy Dispersed Ethylene Glycol Based Nanofluids. Journal of ASTM International, 2012, 9, 1-13.	0.2	1

#	ARTICLE	IF	CITATIONS
766	HEAT TRANSFER FLUIDS. Annual Review of Heat Transfer, 2012, 15, 93-129.	0.3	41
767	ENHANCED HEAT TRANSFER OF Cu-WATER NANOFUID IN A CHANNEL WITH WALL MOUNTED BLUNT RIBS. Journal of Enhanced Heat Transfer, 2018, 25, 61-78.	0.5	3
768	FREE CONVECTION HEAT AND MASS TRANSFER OF A NANOFUID PAST A HORIZONTAL CYLINDER EMBEDDED IN A NON-DARCY POROUS MEDIUM. Journal of Porous Media, 2018, 21, 279-294.	1.0	7
769	Thermal Stability and Conductivity of Carbon Nanotube Nanofluid using Xanthan Gum as Surfactant. Sains Malaysiana, 2017, 46, 1017-1024.	0.3	7
770	APPLICATION OF NANOTECHNOLOGY TO IMPROVE THE PERFORMANCE OF TRACTOR RADIATOR USING CU-WATER NANOFUID. Journal of Thermal Engineering, 2018, 4, 2188-2200.	0.8	12
771	Heat Transportation in Copper Oxide-Water Nanofluid Filled Triangular Cavities. International Journal of Heat and Technology, 2020, 38, 106-124.	0.3	9
772	Transient MHD Free Convection Flow and Heat Transfer of Nanofluid past an Impulsively Started Semi-Infinite Vertical Plate. Journal of Applied Fluid Mechanics, 2016, 9, 2457-2467.	0.4	13
774	The Impact of Nanofluids on Droplet/Spray Cooling of a Heated Surface: A Critical Review. Energies, 2021, 14, 80.	1.6	26
775	Corrosion Behaviour of 316L Stainless Steel in CNTs-Water Nanofluid: Effect of Temperature. Materials, 2021, 14, 119.	1.3	8
776	Thermal Conductivity of Nanofluids-A Comprehensive Review. International Journal of Thermofluid Science and Technology, 2020, 7, .	0.3	8
777	MHD Natural Convective Flow of Cu-Water Nanofluid over a Past Infinite Vertical Plate with the Presence of Time Dependent Boundary Condition. International Journal of Thermofluid Science and Technology, 2020, 7, .	0.3	4
778	Nanofluid Applications in Future Automobiles: Comprehensive Review of Existing Data. , 2010, 2, 306.		8
779	Onset of Natural Convection in Transient Hot Wire Device for Measuring Thermal Conductivity of Nanofluids. Transactions of the Korean Society of Mechanical Engineers, B, 2011, 35, 279-285.	0.0	1
780	Enhancement of Volumetric Mass Transfer Coefficient for Oxygen Transfer Using Fe ₂ O ₃ -Water Nanofluids. Asian Journal of Scientific Research, 2012, 5, 271-277.	0.3	17
781	Development and Assessment of a New Flow-Through Test Instrument to Study Wear and Erosion Effects of Nanofluids. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2017, 5, 58-74.	0.2	2
782	Design and Testing of a Jet-Impingement Instrument to Study Surface-Modification Effects by Nanofluids. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2017, 5, 43-61.	0.2	1
783	Influence of Chemical Reaction and Thermal Radiation on MHD Boundary Layer Flow and Heat Transfer of a Nanofluid over an Exponentially Stretching Sheet. Journal of Applied Mathematics and Physics, 2014, 02, 24-32.	0.2	25
784	Magneto Hydrodynamics Stagnation Point Flow of a Nano Fluid over an Exponentially Stretching Sheet with an Effect of Chemical Reaction, Heat Source and Suction/Injunction. World Journal of Mechanics, 2015, 05, 211-221.	0.1	5

#	ARTICLE	IF	CITATIONS
785	Joule Heating and Thermal Radiation Effects on MHD Boundary Layer Flow of a Nanofluid over an Exponentially Stretching Sheet in a Porous Medium. World Journal of Mechanics, 2015, 05, 151-164.	0.1	18
786	Ultrafine Copper Nanoparticles Exhibiting a Powerful Antifungal/Killing Activity Against Corticium Salmonicolor. Bulletin of the Korean Chemical Society, 2014, 35, 2645-2648.	1.0	29
789	Study of the Effect of Volume Fraction Concentration and Particle Materials on Thermal Conductivity and Thermal Diffusivity of Nanofluids. Japanese Journal of Applied Physics, 2011, 50, 085201.	0.8	8
790	Finite Element Analysis of Unsteady Natural Convective Heat Transfer and Fluid Flow of Nanofluids inside a Tilted Square Enclosure in the Presence of Oriented Magnetic Field. American Journal of Heat and Mass Transfer, 0, , .	0.0	9
791	Advancement of nanofluids in automotive applications during the last few years—a comprehensive review. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7603-7630.	2.0	8
792	Turning of steels under various cooling and lubrication techniques: a review of literature, sustainability aspects, and future scope. Engineering Research Express, 2021, 3, 042001.	0.8	9
793	Thermal Conductivity and Rheological Behaviour of Al-alloy Dispersed Ethylene Glycol Based Nanofluids. , 2012, , 104-121.		0
794	Convective heat transfer characteristics of diamond nanofluid produced by matrix synthetic method. Journal of Advanced Marine Engineering and Technology, 2013, 37, 9-15.	0.1	1
796	Thermal Conductivity of Cu and Al-Water Nanofluids. International Journal of Engineering, Transactions B: Applications, 2013, 26, .	0.6	1
797	Integration of Nano-Fluids into Commercial Antifreeze Concentrates With ASTM D15 Corrosion Testing. , 2014, , 57-70.		2
798	Nanofluids as Quenchants in Industrial Heat Treatment. , 2014, , 324-336.		1
799	The effect of lubricant containing diamond nano-powder on performance. Journal of Advanced Marine Engineering and Technology, 2014, 38, 1039-1044.	0.1	0
800	Critical parameters shift in classical fluids under the influence of nanoparticle additives. Eastern-European Journal of Enterprise Technologies, 2014, 6, 29-33.	0.3	0
802	Heat Transfer in Suspension Plasma Spraying. , 2017, , 1-44.		1
803	THE MECHANISM OF RAISING AND QUANTIFICATION OF SPECIFIC HEAT FLUX AT BOILING OF NANOFUIDS IN FREE CONVECTION CONDITIONS. Energy Technologies & Resource Saving, 2017, , 25-34.	0.3	0
804	Variation in the Properties of Nanofluids due to Change in Temperature and Concentration of Nanoparticles. International Journal of Engineering Research & Technology, 2017, V6, .	0.2	0
805	Nanofluid under Uniform Transverse Magnetic Field with a Chemical Reaction past a Stretching Sheet. International Journal of Mathematics Trends and Technology, 2017, 51, 336-344.	0.0	1
806	Characterization of Vegetable Oil-Based Nanocutting Fluids. Journal of Testing and Evaluation, 2019, 47, 825-837.	0.4	0

#	ARTICLE	IF	CITATIONS
807	NANOAKIÅŽKANLARDA KARARLILİÄŽİN ISI TRANSFERÄ°NÄ° Ä°YÄ°LEÄŽTÄ°RME AÄŒİSİNDAN Ä–NEMÄ°. Ä–mer Halisdemir Äœniversitesi MÄ¼hendislik Bilimleri Dergisi, 0, , .	0.2	3
808	INTRODUCING NANOTECHNOLOGY THROUGH UNDERGRADUATE THERMAL-FLUID RESEARCH PROJECTS. WIT Transactions on Engineering Sciences, 2018, , .	0.0	0
809	The Joule-Thomson Effect for Refrigerants with Dopants of the Fullerenes and Carbon Nanotubes. HolodilÉ¹naÄ Tehnika I TehnologijaÄ, 2018, 54, 38-44.	0.0	0
810	Overview of Nanofluids to Ionanofluids: Applications and Challenges. Advanced Structured Materials, 2019, , 199-227.	0.3	1
811	Modification of intumescent coatings using multilayer carbon nanotubes: physico-technological principles and method of application on the pipeline transport facilities. Pozharovzryvobezopasnost/Fire and Explosion Safety, 2019, 28, 39-50.	0.2	1
812	Thermal conductivity enhancement for pure and oxide metal nanofluids. AIP Conference Proceedings, 2020, , .	0.3	0
813	Investigation on aggregation behavior of 1-octyl-3-methylimidazolium bromide in water and in CuO-water nanofluids by measuring electrical conductivity and surface tension. Journal of the Iranian Chemical Society, 2022, 19, 2053-2065.	1.2	1
814	Updates on Evaporation and Condensation Methods for the Performance Improvement of Solar Stills. Energies, 2021, 14, 7050.	1.6	7
815	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
816	Transient Nucleate Boiling and Convection Processes Taking Place in Nanofluids that Contain Silver Nanoparticles. International Journal of Applied Physics, 2020, 7, 72-79.	0.0	0
819	MHD Partial Slip Flow and Heat Transfer of Nanofluids through a Porous Medium Over a Stretching Sheet with Convective Boundary Condition. Momona Ethiopian Journal of Science, 2020, 12, 39-59.	0.1	0
820	Experimental study on the absorption enhancement of CO_2 by $MDEA\hat{M}EA$ based nanofluids. Canadian Journal of Chemical Engineering, 2022, 100, 3335-3344.	0.9	11
821	Effect of Temperature and Nanoparticle Concentration on the Viscosity of Glycerine-water based SiO ₂ Nanofluids. International Journal of Recent Technology and Engineering, 2021, 10, 111-116.	0.2	2
822	Performance of multi-walled CNTs suspended with hydrocarbon refrigerant (R600a) and lubricating oil in vapour compression refrigeration system. Fuel Communications, 2022, 10, 100036.	2.0	10
823	Performance improvement of R600a with graphene nanolubricant in a domestic refrigerator as a potential substitute for R134a. Fuel Communications, 2022, 10, 100034.	2.0	8
824	Properties and performance of hybrid suspensions of MPCM/nanoparticles for LED thermal management. Energy, 2022, 239, 122650.	4.5	15
825	Numerical Solutions of a Heat Transfer for Fractional Maxwell Fluid Flow with Water Based Clay Nanoparticles; A Finite Difference Approach. Fractal and Fractional, 2021, 5, 242.	1.6	5
826	Estimating the density of hybrid nanofluids for thermal energy application: Application of non-parametric and evolutionary polynomial regression data-intelligent techniques. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110524.	2.5	37

#	ARTICLE	IF	CITATIONS
827	Analysis on physical properties of micropolar nanofluid past a constantly moving porous plate. IOP Conference Series: Materials Science and Engineering, 2021, 1206, 012004.	0.3	1
828	Water molecular bridge undermines thermal insulation of Nano-porous silica aerogels. Journal of Molecular Liquids, 2022, 349, 118176.	2.3	13
829	Effect of aluminum nanoparticles addition on the evaporation of a monodisperse ethanol droplet stream. International Journal of Heat and Mass Transfer, 2022, 184, 122275.	2.5	2
830	Influential study of novel microorganism and nanoparticles during heat and mass transport in Homann flow of visco-elastic materials. International Communications in Heat and Mass Transfer, 2022, 131, 105871.	2.9	17
831	Effects of viscous variation, thermal radiation, and Arrhenius reaction: The case of MHD nanofluid flow containing gyrotactic microorganisms over a convectively heated surface. Partial Differential Equations in Applied Mathematics, 2022, 5, 100232.	1.3	11
832	Improvement in Wind Energy Sector using Nanotechnology. , 2021, , .		4
833	Experimental evaluation of the solar heater system with and without reflector by using nano "aluminum. AIP Conference Proceedings, 2022, , .	0.3	1
834	Similarity solution for induced magnetic field boundary layer flow of metallic nanofluids via convectively inclined stationary/moving flat plate: Spectral relaxation computation. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	0.9	10
835	Evaporation characteristics of N-tetradecane pendant droplets containing carbon nanotubes and cerium dioxide nanoparticles. International Journal of Green Energy, 2023, 20, 52-62.	2.1	3
836	Water production enhancement from the air moisture using nanofluids-experimental investigation and exergo-enviroeconomic analysis. International Communications in Heat and Mass Transfer, 2022, 132, 105887.	2.9	4
837	Symmetry Analysis of Boundary Layer Flows (Parabolic Flows) of Nanofluids. Mathematical Engineering, 2022, , 39-91.	0.1	0
839	Physical Foundations and Mathematical Models of Transport Processes in Nanofluids. Mathematical Engineering, 2022, , 1-12.	0.1	0
840	Heat Transfer Characteristics of Conventional Fluids and Nanofluids in Micro-Channels with Vortex Generators: A Review. Energies, 2022, 15, 1245.	1.6	5
841	Graphene-Based Phase Change Composite Nano-Materials for Thermal Storage Applications. Energies, 2022, 15, 1192.	1.6	4
843	Heat transfer and cost analysis of circular heating source based tubular rods loaded with thermal oil-MWCNT nanofluid. Materials Today: Proceedings, 2022, 54, 941-950.	0.9	1
844	Impact of Non-Uniform Periodic Magnetic Field on Unsteady Natural Convection Flow of Nanofluids in Square Enclosure. Fractal and Fractional, 2022, 6, 101.	1.6	21
845	Numerical computation of 3D Brownian motion of thin film nanofluid flow of convective heat transfer over a stretchable rotating surface. Scientific Reports, 2022, 12, 2708.	1.6	25
846	Design and experimental Analyses of enhanced heat transfer performance in solar powered Injera baking pan using Cu/Oil and Al ₂ O ₃ /Oil nanofluids. Materials Today: Proceedings, 2022, , .	0.9	1

#	ARTICLE	IF	CITATIONS
847	Comparative study of Nano-fluids as Coolants in a Car Radiator. IOP Conference Series: Materials Science and Engineering, 2022, 1228, 012011.	0.3	2
848	Pulsatile Darcy flow of water-based thermally radiative carbon nanotubes between two concentric cylinders. Numerical Methods for Partial Differential Equations, 0, , .	2.0	1
849	Model-based comparative study of magnetohydrodynamics unsteady hybrid nanofluid flow between two infinite parallel plates with particle shape effects. Mathematical Methods in the Applied Sciences, 2023, 46, 11568-11582.	1.2	181
850	A review of the use of nanofluids as heat-transfer fluids in parabolic-trough collectors. Applied Thermal Engineering, 2022, 211, 118346.	3.0	42
851	Cattaneo-Christov Theory to model heat flux effect on nanoliquid slip flow over a spinning disk with nanoparticle aggregation and Hall current. Waves in Random and Complex Media, 0, , 1-23.	1.6	15
852	Experiments on Single-Phase Nanofluid Heat Transfer Mechanisms in Microchannel Heat Sinks: A Review. Energies, 2022, 15, 2525.	1.6	19
853	Effect of Thermophoresis on Heat Diffusion in Isobutane/Copper-Oxide Nanofluid under Pool Boiling Condition: Numerical Investigation. Journal of Nanomaterials, 2022, 2022, 1-10.	1.5	1
854	Theoretical and experimental validation of thermal and heat transfer performance of novel ethylene glycol - Cr2AlC nanofluids. International Communications in Heat and Mass Transfer, 2022, 133, 105972.	2.9	2
855	Numerical Simulation of a Forced Convection Laminar Fluid Flow with Regard for the Thermodiffusion of Nanoparticles in It. Journal of Engineering Physics and Thermophysics, 0, , 1.	0.2	0
856	Investigation of the performance of cermet tools in the turning of Haynes 25 superalloy under gaseous N2 and hybrid nanofluid cutting environments. Journal of Manufacturing Processes, 2022, 76, 428-443.	2.8	35
857	A critical review of heat transfer enhancement methods in the presence of porous media, nanofluids, and microorganisms. Thermal Science and Engineering Progress, 2022, 30, 101267.	1.3	31
858	Thermal progress of a non-Newtonian hybrid nanofluid flow on a permeable Riga plate with temporal stability analysis. Chinese Journal of Physics, 2022, 77, 279-290.	2.0	16
859	Review on aqueous graphene nanoplatelet Nanofluids: Preparation, Stability, thermophysical Properties, and applications in heat exchangers and solar thermal collectors. Applied Thermal Engineering, 2022, 210, 118342.	3.0	26
860	Critical evaluation of nanofluids and ionanocolloids as heat transfer fluids. Journal of Physics: Conference Series, 2021, 2116, 012053.	0.3	0
861	Comparative Study of Thermal Performance of Different Nanofluids in a Double Backward-Facing Step Channel: A Numerical Approach. International Journal of Chemical Engineering, 2021, 2021, 1-14.	1.4	1
862	Modeling the convective thermal heat transfer of nanofluids with carbon nanotubes in cylindrical minichannel. Journal of Physics: Conference Series, 2021, 2131, 022068.	0.3	0
864	Thermal Conductivity of Ionic Liquid-Based Nanofluids Containing Magnesium Oxide and Aluminum Oxide Nanoparticles. Heat Transfer Engineering, 2022, 43, 1806-1819.	1.2	6
865	Performance parameters evaluation and comparison of passive and active indirect type solar dryers supported by phase change material during drying ivy gourd. Energy, 2022, 252, 123998.	4.5	24

#	ARTICLE	IF	CITATIONS
866	Thermophysical Properties and Heat Transfer Characteristics of Nanorefrigerants: Some Existing Results and Areas for Further Researches. <i>Key Engineering Materials</i> , 0, 917, 207-227.	0.4	1
867	A Review on Enhancing Solvent Regeneration in CO ₂ Absorption Process Using Nanoparticles. <i>Sustainability</i> , 2022, 14, 4750.	1.6	6
868	Local and directional characteristics of nanofluids: a non-equilibrium molecular dynamics study. <i>Journal of Mechanical Science and Technology</i> , 2022, 36, 2481.	0.7	0
869	Non-similar modeling for the stagnation point mixed convection nanofluid flow with the temperature-dependent variable viscosity. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	1.6	0
871	NONSIMILAR FORCED CONVECTION ANALYSIS OF CHEMICALLY REACTIVE MAGNETIZED EYRING-POWELL NANOFLUID FLOW IN A POROUS MEDIUM OVER A STRETCHED RIGA SURFACE. <i>Journal of Porous Media</i> , 2022, 25, 67-81.	1.0	7
872	Fouling Behavior and Dispersion Stability of Nanoparticle-Based Refrigeration Fluid. <i>Energies</i> , 2022, 15, 3059.	1.6	4
873	Synthesis and thermophysical properties of functionalized graphene quantum dots for enhancing heat transfer of conventional fluid. <i>Materials Today: Proceedings</i> , 2022, 62, 3577-3581.	0.9	4
874	Experimental and theoretical investigation of forced convection heat transfer with CNTs and CuO water based nano-fluids. <i>Kerntechnik</i> , 2022, 87, 336-350.	0.2	1
875	Heat Transfer Enhancement of Nanofluids with Non-Spherical Nanoparticles: A Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4767.	1.3	13
876	Computational biomedical simulations of hybrid nanoparticles (ϵ -mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 402 Td (xmln	1.2	29
877	Effect of Phase Change Materials on the Performance of Natural Convection Indirect Type Solar Dryer during Drying Ivy Gourd. <i>Heat Transfer Engineering</i> , 2023, 44, 583-595.	1.2	3
878	Enhancement of heat transfer in shell and tube heat exchanger using mini-channels and nanofluids: An experimental study. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107664.	2.6	14
879	FEM solution to quadratic convective and radiative flow of Ag-MgO/H ₂ O hybrid nanofluid over a rotating cone with Hall current: Optimization using Response Surface Methodology. <i>Mathematics and Computers in Simulation</i> , 2022, 201, 121-140.	2.4	29
880	Mixed convective flow of blood biofluids containing magnetite ferroparticles past a vertical flat plate: shapes-based analysis. <i>Waves in Random and Complex Media</i> , 0, , 1-25.	1.6	4
881	Recent advances in thermally conductive polymer composites. <i>High Performance Polymers</i> , 2022, 34, 1081-1101.	0.8	4
883	Influence of the Hall current on the convective and magnetorotational instability in a thin layer of an electrically conductive nanofluid. <i>Physics of Fluids</i> , 2022, 34, .	1.6	1
884	Electrically conducting micropolar nanofluid with heat source/sink over a wedge: Ion and hall currents. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 559, 169548.	1.0	7
885	A Casson nanofluid flow within the conical gap between rotating surfaces of a cone and a horizontal disc. <i>Scientific Reports</i> , 2022, 12, .	1.6	19

#	ARTICLE	IF	CITATIONS
886	A review of nanotechnology fluid applications in geothermal energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112729.	8.2	25
887	Nanoparticle's radius effect on unsteady mixed convective copper-water nanofluid flow over an expanding sheet in porous medium with boundary slip. <i>Chemical Engineering Journal Advances</i> , 2022, 12, 100366.	2.4	22
888	Effectiveness of Radiation on Magneto-Combined Convective Boundary Layer Flow in Polar Nanofluid around a Spherical Shape. <i>Fractal and Fractional</i> , 2022, 6, 383.	1.6	11
889	On the Morphology of Nanostructured TiO ₂ for Energy Applications: The Shape of the Ubiquitous Nanomaterial. <i>Nanomaterials</i> , 2022, 12, 2608.	1.9	5
890	The recent progress of nanofluids and the state-of-art thermal devices. , 0, 13, 82-89.		1
891	System-dependent behaviors of nanofluids for heat transfer: a particle-resolved computational study. <i>Computational Particle Mechanics</i> , 2023, 10, 465-480.	1.5	4
892	Thermal convection in a rotating porous medium layer saturated by a nanofluid under a helical magnetic field. <i>Journal of Applied Physics</i> , 2022, 132, 084302.	1.1	0
893	Numerical investigation for thermal growth in water and engine oil-based ternary nanofluid using three different shaped nanoparticles over a linear and nonlinear stretching sheet. <i>Numerical Heat Transfer; Part A: Applications</i> , 2023, 83, 1365-1376.	1.2	17
894	Performance evaluation of graphene-enhanced LPG in a vapour compression refrigeration system: An experimental approach. <i>Energy Reports</i> , 2022, 8, 1226-1235.	2.5	5
895	Ti ₃ C ₂ T _x MXene nanofluids with enhanced thermal conductivity. <i>Chemical Thermodynamics and Thermal Analysis</i> , 2022, 8, 100077.	0.7	7
896	THE EFFECT OF PERMANENT MAGNET LOCATION ON THE PERFORMANCE OF FERROFLUID BASED SPNCmL , 2022, , .		0
897	Green Metalworking Fluids for Sustainable Machining Operations and Other Sustainable Systems: A Review. <i>Metals</i> , 2022, 12, 1466.	1.0	9
898	Analysis of fractional MHD convective flow with CTNsâ€™ nanoparticles and radiative heat flux in human blood. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	0
899	A Variational Multiscale Method for Natural Convection of Nanofluids. <i>Mechanics Research Communications</i> , 2022, , 103960.	1.0	1
900	A critical review on the effect of morphology, stability, and thermophysical properties of graphene nanoparticles in nanolubricants and nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2023, 148, 451-472.	2.0	4
901	Chemical Enhanced Oil Recovery: Where Do We Stand? Recent Advances and Applications. , 0, , .		0
902	Radiative thermal analysis for four types of hybrid nanoparticles subject to non-uniform heat source: Keller box numerical approach. <i>Case Studies in Thermal Engineering</i> , 2022, 40, 102474.	2.8	64
903	Investigating the rheological behavior of a hybrid nanofluid (HNF) to present to the industry. <i>Heliyon</i> , 2022, 8, e11561.	1.4	3

#	ARTICLE	IF	CITATIONS
904	A review on heat transfer enhancement methods for a heat exchanger. AIP Conference Proceedings, 2022, , .	0.3	0
905	FEM computations and Taguchi optimization in nonlinear radiative MHD MWCNT-MgO/EG hybrid nanoliquid flow and heat transfer over a 3D wedge surface. Case Studies in Thermal Engineering, 2023, 41, 102639.	2.8	7
906	Inclined Magnetized Flow of Radioactive Nanoparticles with Exponential Heat Source and Slip Effects: Keller Box Simulations. Journal of Nanofluids, 2023, 12, 571-579.	1.4	2
907	Chapter 15. Socio-economic and Environmental Impacts of Nanofluids. RSC Soft Matter, 2022, , 437-451.	0.2	0
908	A Review on Experimental and Numerical Investigations of Jet Impingement Cooling Performance with Nanofluids. Micromachines, 2022, 13, 2059.	1.4	4
909	Statistical modeling for Ree-Eyring nanofluid flow in a conical gap between porous rotating surfaces with entropy generation and Hall Effect. Scientific Reports, 2022, 12, .	1.6	9
910	Radiative MHD Nanofluid Flow Due to a Linearly Stretching Sheet with Convective Heating and Viscous Dissipation. Mathematics, 2022, 10, 4743.	1.1	5
911	Hall current and Joule heating effects on peristalsis of TiO_2 -Ag/EG hybrid nanofluids via a curved channel with heat transfer. Waves in Random and Complex Media, 0, , 1-24.	1.6	3
912	Effect of graphene/hydrofluoroether (HFE-7100) nanofluids on start-up and thermal characteristics of pulsating heat pipe. Journal of Thermal Analysis and Calorimetry, 2023, 148, 3819-3834.	2.0	3
913	Long-term experimental study on gravitational sedimentation of water aluminum oxide nanofluid at different volumetric concentrations. International Journal of Sediment Research, 2023, 38, 303-315.	1.8	2
914	Optimization of heat transfer by nonlinear thermal convection flow past a solid sphere with Stefan blowing and thermal slip using Taguchi method. International Communications in Heat and Mass Transfer, 2023, 141, 106580.	2.9	3
915	Polyvinyl acetate-based copper nanofluid coated wood surface enhanced water resistance and thermal conductivity. Materials Today Communications, 2023, 34, 105434.	0.9	1
916	Biosynthesis and characterization of CuO nanoparticles using mehendi and neem leaf extract and its relevance as a nanofluid for heat transfer. Journal of Crystal Growth, 2023, 605, 127063.	0.7	3
917	Graphene nanoplatelet nanofluids stabilised by hybridisation with graphene oxide: preparation, stability, and performance in flat plate solar thermal collector. Journal of Thermal Analysis and Calorimetry, 2023, 148, 2105-2118.	2.0	1
918	A Review on Machining of Nickel-Based Superalloys Using Nanofluids Under Minimum Quantity Lubrication (NFMQL). Journal of the Institution of Engineers (India): Series C, 2023, 104, 183-199.	0.7	3
919	Thermally conductive polymer composites. , 2023, , 149-196.		0
920	Insight into Unsteady Separated Stagnation Point Flow of Hybrid Nanofluids Subjected to an Electro-Magneto hydrodynamics Riga Plate. Magnetochemistry, 2023, 9, 46.	1.0	1
921	Numerical study of gyrotactic bioconvection in stretching flow of a variable viscosity nanofluid with buoyancy and power-law wall effects. Waves in Random and Complex Media, 0, , 1-34.	1.6	1

#	ARTICLE	IF	CITATIONS
922	Syngas purification by modified solvents with nanoparticles. , 2023, , 101-130.		1
923	Integrated microchannel cooling for densely packed electronic components using vanadium pentaoxide (V ₂ O ₅)-xerogel nanoplatelets-based nanofluids. Journal of Thermal Analysis and Calorimetry, 2023, 148, 2547-2565.	2.0	2
924	Melting heat transfer and thermal radiation effects on MHD tangent hyperbolic nanofluid flow with chemical reaction and activation energy. Thermal Science, 2023, 27, 253-261.	0.5	5
925	Heat transfer and fluid flow characteristics of the passive method in double tube heat exchangers: A critical review. International Journal of Thermofluids, 2023, 17, 100282.	4.0	24
926	Effectiveness of the use of nanofluids in concentrated solar power plants â€œ Electrical and environmental assessment. Renewable Energy Focus, 2023, 45, 10-20.	2.2	1
927	A comprehensive approach combining gradient porous metal foam and the magnetic field to regulate latent heat storage performance. Applied Thermal Engineering, 2023, 227, 120380.	3.0	5
928	Parabolic trough solar collector: A review on geometrical interpretation, mathematical model, and thermal performance augmentation. Engineering Research Express, 2023, 5, 012003.	0.8	3
929	Measurement of the Thermal Conductivity and Heat Transfer Coefficient of Nanofluids with Single-Walled Nanotubes. High Temperature, 2022, 60, 631-638.	0.1	1
930	Experimental and numerical study on air-to-nanofluid thermoelectric cooling system using novel surface-modified Fe ₃ O ₄ nanoparticles. Microfluidics and Nanofluidics, 2023, 27, .	1.0	10
931	Time-dependent mixed stagnation point hybrid nanofluid flow with radiative heat flux and viscous dissipation effects over a movable EMHD Riga plate. International Journal of Modern Physics B, 2024, 38, .	1.0	1
932	A brief review of nanofluids utilization in heat transfer devices for energy saving. Materials Today: Proceedings, 2023, , .	0.9	1
933	An experimental study on convective heat transfer and pressure drop during the movement of TiO ₂ /water nanofluid through a helical coiled path. Journal of Thermal Analysis and Calorimetry, 2023, 148, 6183-6195.	2.0	2
934	Heat transfer optimization of nonlinear mixed convection flow of nanoliquid past a vertical rotating cone with Stefan blowing using response surface method. Waves in Random and Complex Media, 0, , 1-26.	1.6	3
939	Nanofluids-based optical filtering for photovoltaic/thermal system. , 2023, , 93-142.		1
947	Study the most critical factors that influence the thermal conductivity of multi-walled carbon nanotubes. AIP Conference Proceedings, 2023, , .	0.3	0
951	Applications of Green Nanofluids in Thermal Systems. Advances in Chemical and Materials Engineering Book Series, 2023, , 235-264.	0.2	0
975	Discussion on the stability of nanofluids for optimal thermal applications. , 2024, , 187-208.		0