

# CITATION REPORT

List of articles citing

**A review on applications and challenges of nanofluids**

**DOI: 10.1016/j.rser.2010.11.035**

**Renewable and Sustainable Energy Reviews, 2011, 15, 1646-16**

**Source:** <https://exaly.com/paper-pdf/51622828/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1384	Nanofluids and Their Properties. <b>2011</b> , 64,		47
1383	Surfactant free graphene nanosheets based nanofluids by in-situ reduction of alkaline graphite oxide suspensions. <b>2011</b> , 110, 124326		38
1382	A review on energy scenario and sustainable energy in Iran. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 4652-4658	16.2	69
1381	Free convection heat transfer of non Newtonian nanofluids under constant heat flux condition. <b>2011</b> , 38, 1449-1454		35
1380	Dispersion stability and thermal conductivity of propylene glycol-based nanofluids. <b>2011</b> , 13, 5049-5055		58
1379	Effect of minimum quantity lubrication with Al <sub>2</sub> O <sub>3</sub> nanoparticles on surface roughness, tool wear and temperature dissipation in machining Inconel 600 alloy. <b>2011</b> , 225, 3-16		37
1378	Effect of Uncertainties in Physical Properties on Entropy Generation Between Two Rotating Cylinders With Nanofluids. <b>2012</b> , 134,		40
1377	Assessment of Single and Two-Phase Models for Nanofluid Flow at the Entrance Region of a Uniformly Heated Tube. <b>2012</b> ,		1
1376	Effect of Nanoparticles on Oil-Water Flow in a Confined Nanochannel: A Molecular Dynamics Study. <b>2012</b> ,		12
1375	Analysis of entropy generation between co-rotating cylinders using nanofluids. <b>2012</b> , 44, 438-446		108
1374	Cooling of minichannel heat sink using nanofluids. <b>2012</b> , 39, 1188-1194		63
1373	Experimental and theoretical studies of thermal conductivity, viscosity and heat transfer coefficient of titania and alumina nanofluids. <b>2012</b> , 55, 7772-7781		99
1372	Thermodynamic properties of gold-water nanofluids using molecular dynamics. <b>2012</b> , 14, 1		8
1371	Effect of grinding speed changes on dispersibility of the treated multi-walled carbon nanotubes in aqueous solution and its thermal characteristics. <b>2012</b> , 61, 36-41		22
1370	Mass transfer enhancement by binary nanofluids (NH <sub>3</sub> /H <sub>2</sub> O + Ag nanoparticles) for bubble absorption process. <b>2012</b> , 35, 2240-2247		48
1369	Thermodynamic and phase behaviour of fluids embedded with nanostructured materials. <b>2012</b> , 62, 44-49		5
1368	Heat transfer enhancement of laminar nanofluids flow in a triangular duct using vortex generator. <b>2012</b> , 52, 398-415		49

1367	Heat transfer and entropy analysis of three different types of heat exchangers operated with nanofluids. <b>2012</b> , 39, 838-843	60
1366	The effect of nanofluids flow on mixed convection heat transfer over microscale backward-facing step. <b>2012</b> , 55, 5870-5881	56
1365	Evaluation of the effect of nanofluid-based absorbers on direct solar collector. <b>2012</b> , 55, 5899-5907	218
1364	Surfactant-free ionic liquid-based nanofluids with remarkable thermal conductivity enhancement at very low loading of graphene. <b>2012</b> , 7, 314	92
1363	Dependence of viscosity of suspensions of ceramic nanopowders in ethyl alcohol on concentration and temperature. <b>2012</b> , 7, 412	8
1362	Mass Transfer from Nanofluid Single Drops in Liquid-Liquid Extraction Process. <b>2012</b> , 51, 5157-5166	82
1361	Application of the FCM-based neuro-fuzzy inference system and genetic algorithm-polynomial neural network approaches to modelling the thermal conductivity of alumina-water nanofluids. <b>2012</b> , 39, 971-977	61
1360	Experimental investigation of turbulent flow and convective heat transfer characteristics of alumina water nanofluids in fully developed flow regime. <b>2012</b> , 39, 1272-1278	82
1359	Thermal and hydraulic characteristics of turbulent nanofluids flow in a rib-groove channel. <b>2012</b> , 39, 1584-1594	72
1358	Technologies to recover exhaust heat from internal combustion engines. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 5649-5659	16.2 255
1357	Application of nanofluids in heat exchangers: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 5625-5638	16.2 324
1356	An overview on heat transfer augmentation using vortex generators and nanofluids: Approaches and applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 5951-5993	16.2 121
1355	Critical Review of the Novel Applications and Uses of Nanofluids. <b>2012</b> ,	9
1354	An improved process for the surface modification of SiO <sub>2</sub> nanoparticles. <b>2012</b> , 14, 3013	13
1353	Asymmetric Forced Convection of Nanofluids in a Channel with Symmetrically Mounted Rib Heaters on Opposite Walls. <b>2012</b> , 62, 884-904	11
1352	Numerical Investigation of Heat Transfer from a Two-Dimensional Sudden Expansion Flow Using Nanofluids. <b>2012</b> , 61, 527-546	10
1351	Latest developments on the viscosity of nanofluids. <b>2012</b> , 55, 874-885	438
1350	Modeling of shell and tube heat recovery exchanger operated with nanofluid based coolants. <b>2012</b> , 55, 808-816	65

1349	Application of Computational Fluid Dynamics (CFD) for nanofluids. <b>2012</b> , 55, 4104-4115		184
1348	A heatline analysis of natural convection in a square inclined enclosure filled with a CuO nanofluid under non-uniform wall heating condition. <b>2012</b> , 55, 5076-5086		62
1347	Nanofluid as a coolant for electronic devices (cooling of electronic devices). <b>2012</b> , 32, 76-82		180
1346	Influence of nanoparticles on boiling heat transfer. <b>2012</b> , 41, 2-9		46
1345	Assessing colloidal stability of long term MWCNT based nanofluids. <b>2012</b> , 381, 17-23		53
1344	Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids [A review]. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 3917-3938	16.2	123
1343	Buoyancy induced flow in a nanofluid filled enclosure partially exposed to forced convection. <b>2012</b> , 51, 381-395		28
1342	Convective heat transfer of aqueous alumina nanosuspensions in a horizontal mini-channel. <b>2012</b> , 48, 349-357		21
1341	Solar energy harvesting with the application of nanotechnology. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 26, 837-852	16.2	137
1340	Thermal Conductivity of Nanofluids. <b>2013</b> , 757, 111-137		9
1339	Pressure drop and convective heat transfer of water and nanofluids in a double-pipe helical heat exchanger. <b>2013</b> , 60, 266-274		119
1338	Remarkable improvements in the stability and thermal conductivity of graphite/ethylene glycol nanofluids caused by a graphene oxide percolation structure. <b>2013</b> , 42, 5866-73		26
1337	Nanofluids Flow Between Two Rotating Cylinders: Effects of Thermophoresis and Brownian Motion. <b>2013</b> , 27, 748-755		5
1336	Assessment of thermal conductivity, viscosity and specific heat of nanofluids in single phase laminar internal forced convection. <b>2013</b> , 64, 689-693		18
1335	The effect of surfactants on heat transfer feature of nanofluids. <b>2013</b> , 46, 259-262		45
1334	Investigating performance improvement of solar collectors by using nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 28, 232-245	16.2	133
1333	Performance characteristics of a microchannel heat sink using TiO <sub>2</sub> /water nanofluid and different thermophysical models. <b>2013</b> , 47, 98-104		67
1332	A review of entropy generation in nanofluid flow. <b>2013</b> , 65, 514-532		338

1331	Investigation on Copper Nanofluid Obtained through Micro Electrical Discharge Machining for Dispersion Stability and Thermal Conductivity. <b>2013</b> , 64, 946-955	13
1330	Particle migration in nanofluids considering thermophoresis and its effect on convective heat transfer. <b>2013</b> , 574, 47-54	33
1329	Study on concentric tube heat exchanger heat transfer performance using Al <sub>2</sub> O <sub>3</sub> /water based nanofluids. <b>2013</b> , 49, 60-68	53
1328	Experimental studies on the viscosity of TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> nanoparticles suspended in a mixture of ethylene glycol and water for high temperature applications. <b>2013</b> , 111, 40-45	162
1327	Influence of nanofluid on turbulent forced convective flow in a channel with detached rib-arrays. <b>2013</b> , 46, 97-105	31
1326	Thermal conductivity of highly loaded aluminium nitride/poly(propylene glycol) dispersions. <b>2013</b> , 65, 592-598	11
1325	Heat Transfer in Water-Based SiC and TiO <sub>2</sub> Nanofluids. <b>2013</b> , 34, 1060-1072	30
1324	Effect of particle concentration, temperature and surfactant on surface tension of nanofluids. <b>2013</b> , 49, 110-114	93
1323	Heat transfer and thermodynamic analyses of a helically coiled heat exchanger using different types of nanofluids. <b>2013</b> , 67, 398-403	66
1322	Characteristics of heat transfer and fluid flow in microtube and microchannel using conventional fluids and nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 28, 848-880	16.2 130
1321	Numerical solution of a thermal instability problem in a rotating nanofluid layer. <b>2013</b> , 63, 313-322	62
1320	Modelling and multi-objective optimisation of the convective heat transfer characteristics and pressure drop of low concentration TiO <sub>2</sub> /water nanofluids in the turbulent flow regime. <b>2013</b> , 67, 646-653	17
1319	Water to Nanofluids Heat Transfer in Concentric Tube Heat Exchanger: Experimental Study. <b>2013</b> , 51, 318-323	48
1318	A comparative parametric study on single-phase Al <sub>2</sub> O <sub>3</sub> /water nanofluid exchanging heat with a phase-changing fluid. <b>2013</b> , 74, 190-198	11
1317	50 years in the development of insulating liquids. <b>2013</b> , 29, 13-25	169
1316	Thermal conductivity of fullerene and TiO <sub>2</sub> nanofluids. <b>2013</b> ,	1
1315	Thermophysical properties and heat transfer performance of Al <sub>2</sub> O <sub>3</sub> /R-134a nanorefrigerants. <b>2013</b> , 57, 100-108	100
1314	Small particles, big impacts: A review of the diverse applications of nanofluids. <b>2013</b> , 113, 011301	512

1313	Boiling and two-phase flow phenomena of refrigerant-based nanofluids: Fundamentals, applications and challenges. <b>2013</b> , 36, 421-446	77
1312	A review of the applications of nanofluids in solar energy. <b>2013</b> , 57, 582-594	904
1311	Heat transfer enhancement of nanofluids in a double pipe heat exchanger with louvered strip inserts. <b>2013</b> , 40, 36-46	121
1310	Thermal conductivity and specific heat capacity measurements of Al <sub>2</sub> O <sub>3</sub> nanofluids. <b>2013</b> , 111, 1615-1625	102
1309	Rheological properties of diethylene glycol-based MgAl <sub>2</sub> O <sub>4</sub> nanofluids. <b>2013</b> , 3, 6429	25
1308	Synthesis of ceramic nanoparticles by laser pyrolysis: From research to applications. <b>2013</b> , 104, 461-469	49
1307	Self-assembled array of rectangular single-crystal microtubes of perchlorinated copper phthalocyanines. <b>2013</b> , 23, 543-548	3
1306	Measurement and Correlation of the Viscosity of Water-Based Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> Nanofluids in High Temperatures and Comparisons with Literature Reports. <b>2013</b> , 34, 1697-1703	64
1305	Experimental study on the characteristics of heat transfer and flow resistance in turbulent pipe flows of viscoelastic-fluid-based Cu nanofluid. <b>2013</b> , 62, 303-313	34
1304	Filling carbon nanotubes with magnetic particles. <b>2013</b> , 1, 2860	25
1303	Dispersion of ZnO Nanoparticles in a Mixture of Ethylene Glycol/Water, Exploration of Temperature-Dependent Density, and Sensitivity Analysis. <b>2013</b> , 24, 1103-1114	64
1302	Thermal Conductivity, Viscosity and Density of R141b Refrigerant based Nanofluid. <b>2013</b> , 56, 310-315	88
1301	Statistical Analysis of Nanofluid Heat Transfer in a Heat Exchange System. <b>2013</b> , 27, 320-325	12
1300	Experimental study of overall heat transfer coefficient in the application of dilute nanofluids in the car radiator. <b>2013</b> , 52, 8-16	142
1299	Heat dissipation performance of MWCNTs nano-coolant for vehicle. <b>2013</b> , 49, 22-30	65
1298	Entropy Generation Between Two Rotating Cylinders with Magnetohydrodynamic Flow Using Nanofluids. <b>2013</b> , 27, 161-169	39
1297	Irreversibility analysis of a vertical annulus using TiO <sub>2</sub> /water nanofluid with MHD flow effects. <b>2013</b> , 64, 671-679	70
1296	Natural convection of nanofluid over vertical plate embedded in porous medium: prescribed surface heat flux. <b>2013</b> , 34, 669-686	35

1295	Radiative properties of nanofluids. <b>2013</b> , 46, 74-84	56
1294	Long-Term MWCNTs Nanofluids toward Heat Transfer Capability Improvement. <b>2013</b> , 117, 12826-12834	9
1293	Prospective applications of nano fluid during machining process. <b>2013</b> , 14, 257	1
1292	Investigation of Single Phase Models for Predicting Pressure Drop in Nanofluid Flow in Circular Pipes. <b>2013</b> ,	
1291	Exact Analytical Solution for Suction and Injection Flow with Thermal Enhancement of Five Nanofluids over an Isothermal Stretching Sheet with Effect of the Slip Model: A Comparative Study. <b>2013</b> , 2013, 1-14	16
1290	Molecular dynamics simulation of the specific heat capacity of water-Cu nanofluids. <b>2013</b> , 3, 1	32
1289	Evolution of Nanofluid Rayleigh-Bénard Flows Between Two Parallel Plates: A Mesoscopic Modeling Study. <b>2013</b> , 4,	1
1288	Partial Slip Flow and Heat Transfer over a Stretching Sheet in a Nanofluid. <b>2013</b> , 2013, 1-7	26
1287	Experimental Investigation of Nano Particles Blended with Water on Solar Flat Plate Collector. <b>2013</b> , 768, 164-170	0
1286	CPU Heat Sink Cooled by Nanofluids and Water: Experimental and Numerical Study. <b>2013</b> , 32, 409-414	7
1285	Replacement of heat sink fan by nanocoolants for enhancement of CPU efficiency. <b>2013</b> ,	1
1284	Pressure Drop and Performance Characteristics of Water-Based Al <sub>2</sub> O <sub>3</sub> and CuO Nanofluids in a Triangular Duct. <b>2013</b> , 34, 1368-1375	23
1283	Comparative Study on Heat Transfer Enhancement of Low Volume Concentration of Al <sub>2</sub> O <sub>3</sub> Water and Carbon NanotubeWater Nanofluids in Laminar Regime Using Helical Screw Tape Inserts. <b>2013</b> , 4,	7
1282	Transformation thermodynamics for heat flux management based on segmented thermal cloaks. <b>2013</b> , 63, 10903	6
1281	Experimental Investigation of Heat Transfer Augmentation in Automobile Radiator With CNT/Water Nanofluid. <b>2013</b> ,	5
1280	Formulation techniques for nanofluids. <b>2013</b> , 7, 208-15	4
1279	Numerical Study of Nanofluids Flow Characteristics Using LES-Lagrange Method and Molecular Dynamics Simulation. <b>2013</b> ,	2
1278	Tribological Performance of ZnO-Oil Nanofluids at Elevated Temperatures. <b>2013</b> , 6, 126-131	9

1277	Heat dissipation for microprocessor using multiwalled carbon nanotubes based liquid. <b>2013</b> , 2013, 305957	5
1276	Effect of Velocity Slip Boundary Condition on the Flow and Heat Transfer of Cu-Water and TiO <sub>2</sub> -Water Nanofluids in the Presence of a Magnetic Field. <b>2014</b> , 2014, 1-9	14
1275	Magneto-thermal convection of low concentration nanofluids. <b>2014</b> , 18, 03006	7
1274	Comparative Study of Cooling Performance of Automobile Radiator Using Al <sub>2</sub> O <sub>3</sub> -Water and Carbon Nanotube-Water Nanofluid. <b>2014</b> , 5,	56
1273	INFLUENCE OF PARTICLE SIZE ON DENSITY, ULTRASONIC VELOCITY AND VISCOSITY OF MAGNETITE NANOFLUIDS AT DIFFERENT TEMPERATURES. <b>2014</b> , 09, 1450089	2
1272	On flow characteristics of liquid-solid mixed-phase nanofluid inside nanochannels. <b>2014</b> , 35, 1541-1554	6
1271	Antiwear and Extreme Pressure Properties of Nanofluids for Industrial Applications. <b>2014</b> , 57, 1072-1076	46
1270	Corrosion of Carbon Steel in Nanofluid Containing ZrO <sub>2</sub> Nanoparticle at Different Temperature. <b>2014</b> , 896, 168-172	4
1269	Stagnation-Point Flow Toward a Stretching/Shrinking Sheet in a Nanofluid Containing Both Nanoparticles and Gyrotactic Microorganisms. <b>2014</b> , 136,	39
1268	Thermal and Electrical Experimental Characterization of Ethylene Glycol and Water Mixture Coolants for a 400 W Proton Exchange Membrane Fuel. <b>2014</b> , 660, 391-396	1
1267	Sessile droplet contact angle of water-Al <sub>2</sub> O <sub>3</sub> , water-TiO <sub>2</sub> and water-Cu nanofluids. <b>2014</b> , 59, 258-263	37
1266	Assessment of energy and economic advantages by proposing nanofluid based direct absorption in solar collectors for India. <b>2014</b> ,	0
1265	Mathematical Modelling of Peristaltic Pumping of Nano-Fluids. <b>2014</b> , 69-95	5
1264	A Review on the Viscous and Thermal Transport Properties of Nanofluids. <b>2014</b> , 917, 18-27	16
1263	Thermal and electrical experimental characterization of Ethylene Glycol and water mixture nanofluids for a 400w Proton Exchange Membrane Fuel Cell. <b>2014</b> ,	
1262	A Lifetime of Metallic Nanoparticles in Heat Exchange Liquids. <b>2014</b> , 811, 23-27	1
1261	Exergo-environmental Analysis of Nano Fluid ORC Low-grade Waste Heat Recovery for Hybrid Trigenation System. <b>2014</b> , 61, 1879-1882	9
1260	Optimize the Evaporating Heat Transfer Coefficient of Refrigeration System Using Nano Fluid. <b>2014</b> , 592-594, 951-955	1



1259	Computational Analysis of Nanofluids in Vehicle Radiator. <b>2014</b> , 695, 539-543	4
1258	An Innovative Approach for Generation of Aluminium Nanoparticles Using Micro Electrical Discharge Machining. <b>2014</b> , 5, 1205-1213	11
1257	Investigation of Heat Transfer Performance of Nanofluids on Conical Solar Collector under Dynamic Condition. <b>2014</b> , 984-985, 1125-1131	2
1256	A comprehensive review of fundamentals, preparation and applications of nanorefrigerants. <b>2014</b> , 54, 81-95	41
1255	Experimental results of nanofluids flow effects on metal surfaces. <b>2014</b> , 92, 1616-1628	41
1254	Thermal conductivity and specific heat capacity measurements of CuO nanofluids. <b>2014</b> , 115, 1883-1891	87
1253	Experimental investigation on convective heat transfer and rheological characteristics of Cu <sub>3</sub> SiO <sub>2</sub> hybrid nanofluids. <b>2014</b> , 52, 104-115	248
1252	Influence of Single-Walled Carbon Nanotubes on Thermal Expansion of Water. <b>2014</b> , 35, 19-31	20
1251	An experimental study on velocity and temperature of Al/water microfluid in a circular tube with swirl. <b>2014</b> , 17, 59-68	2
1250	Numerical investigation of the heat transfer enhancement using various viscosity models in chamber filled with water/CuO nanofluid. <b>2014</b> , 36, 825-836	6
1249	Comparison of single and two-phase models for nanofluid convection at the entrance of a uniformly heated tube. <b>2014</b> , 80, 83-92	118
1248	Aggregation based model for heat conduction mechanism in nanofluids. <b>2014</b> , 72, 392-399	44
1247	Fully developed mixed convection flow in a horizontal channel filled by a nanofluid containing both nanoparticles and gyrotactic microorganisms. <b>2014</b> , 46, 37-45	68
1246	Heat transfer characteristics and pressure drop of COOH-functionalized DWCNTs/water nanofluid in turbulent flow at low concentrations. <b>2014</b> , 73, 186-194	144
1245	Natural convection of Al <sub>2</sub> O <sub>3</sub> /water nanofluid in a square cavity: Effects of heterogeneous heating. <b>2014</b> , 74, 391-402	59
1244	Study of forced convection nanofluid heat transfer in the automotive cooling system. <b>2014</b> , 2, 50-61	141
1243	Heat transfer enhancement using nanofluids in an automotive cooling system. <b>2014</b> , 53, 195-202	86
1242	Experimental investigation on the thermo-physical properties of Al <sub>2</sub> O <sub>3</sub> nanoparticles suspended in car radiator coolant. <b>2014</b> , 54, 48-53	141

1241	A review on preparation methods and challenges of nanofluids. <b>2014</b> , 54, 115-125	182
1240	A comparative experimental study on the natural convection heat transfer of different metal oxide nanopowders suspended in turbine oil inside an inclined cavity. <b>2014</b> , 73, 231-238	67
1239	Investigation of effects of dry and near dry machining on AISI D2 steel using vegetable oil. <b>2014</b> , 66, 619-623	133
1238	Determining the thermal conductivity of liquids using the transient hot disk method. Part I: Establishing transient thermal-fluid constraints. <b>2014</b> , 71, 779-789	25
1237	Mixed-convection flow of Al <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> O nanofluid in a channel partially filled with porous metal foam: Experimental and numerical study. <b>2014</b> , 53, 49-56	56
1236	Effects of streamwise conduction on thermal performance of nanofluid flow in microchannel heat sinks. <b>2014</b> , 78, 14-23	32
1235	Scale formation and subcooled flow boiling heat transfer of CuO/Water nanofluid inside the vertical annulus. <b>2014</b> , 52, 205-214	91
1234	Impact of Delta-Winglet Pair of Vortex Generators on the Thermal and Hydraulic Performance of a Triangular Channel Using Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid. <b>2014</b> , 136,	12
1233	FMR study of carbon nanotubes filled with Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <b>2014</b> , 358-359, 44-49	15
1232	On two-fluid modeling of nucleate boiling of dilute nanofluids. <b>2014</b> , 69, 443-450	27
1231	Effect of different nanoparticle shapes on shell and tube heat exchanger using different baffle angles and operated with nanofluid. <b>2014</b> , 70, 289-297	109
1230	Application of fullerene C <sub>60</sub> nano-oil for performance enhancement of domestic refrigerator compressors. <b>2014</b> , 40, 398-403	74
1229	The effect of nanoparticles on laminar heat transfer in a horizontal tube. <b>2014</b> , 69, 77-91	55
1228	Buoyancy-driven flow of nanofluids in a cavity considering the Ludwig-Boret effect and sedimentation: Numerical study and experimental validation. <b>2014</b> , 77, 684-694	49
1227	An investigation into the dynamics of partial discharge propagation in mineral oil based nanofluids. <b>2014</b> ,	1
1226	A comparative review on the specific heat of nanofluids for energy perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 38, 88-98	16.2 136
1225	First and second laws analysis of a minichannel-based solar collector using boehmite alumina nanofluids: Effects of nanoparticle shape and tube materials. <b>2014</b> , 78, 1166-1176	101
1224	Efficiency of ferromagnetic nanoparticles suspended in ethylene glycol for applications in energy devices: Effects of particle size, temperature, and concentration. <b>2014</b> , 58, 138-146	85

1223	Experimental and numerical study of nanofluid flow and heat transfer over microscale forward-facing step. <b>2014</b> , 57, 319-329	12
1222	Interferometry-based whole field investigation of heat transfer characteristics of dilute nanofluids. <b>2014</b> , 79, 166-175	31
1221	Entropy generation during Al <sub>2</sub> O <sub>3</sub> /water nanofluid flow in a solar collector: Effects of tube roughness, nanoparticle size, and different thermophysical models. <b>2014</b> , 78, 64-75	150
1220	Heat dissipation for the Intel Core i5 processor using multiwalled carbon-nanotube-based ethylene glycol. <b>2014</b> , 65, 312-316	15
1219	Characterization of halloysite-water nanofluid for heat transfer applications. <b>2014</b> , 99, 54-61	17
1218	Turbulent forced convection effectiveness of alumina/water nanofluid in a circular tube with elevated inlet fluid temperatures: An experimental study. <b>2014</b> , 57, 247-253	19
1217	Heat conduction mechanism in nanofluids. <b>2014</b> , 28, 2925-2936	18
1216	Generation and Characterization of Copper Nanoparticles Using Micro-Electrical Discharge Machining. <b>2014</b> , 29, 477-486	30
1215	Radiative properties of ionic liquid-based nanofluids for medium-to-high-temperature direct absorption solar collectors. <b>2014</b> , 130, 521-528	80
1214	Sedimentation and convective boiling heat transfer of CuO-water/ethylene glycol nanofluids. <b>2014</b> , 50, 1237-1249	68
1213	Gas absorption using a nanofluid solvent: kinetic and equilibrium study. <b>2014</b> , 50, 1699-1706	12
1212	Heat transfer study on concentric tube heat exchanger using TiO <sub>2</sub> /water based nanofluid. <b>2014</b> , 57, 163-169	59
1211	Using nanofluids in enhancing the performance of a novel two-layer solar pond. <b>2014</b> , 68, 318-326	45
1210	Magneto-convection in a rotating layer of nanofluid. <b>2014</b> , 9, 663-677	39
1209	Properties of Mineral Oil based Silica Nanofluids. <b>2014</b> , 21, 1100-1108	105
1208	On unexpected behavior of viscosity of diethylene glycol-based MgAl <sub>2</sub> O <sub>4</sub> nanofluids. <b>2014</b> , 4, 26057	16
1207	Investigation of nanoparticle aggregation effect on thermal properties of nanofluid by a combined equilibrium and non-equilibrium molecular dynamics simulation. <b>2014</b> , 197, 14-22	38
1206	Effects of titania nanoparticles on heat transfer performance of spray cooling with full cone nozzle. <b>2014</b> , 62, 20-27	24

1205	Is metal nanofluid reliable as heat carrier?. <b>2014</b> , 273, 183-91	24
1204	Experimental investigation on thermo-physical properties of copper/diethylene glycol nanofluids fabricated via microwave-assisted route. <b>2014</b> , 65, 158-165	61
1203	Thermal conductivity of Al <sub>2</sub> O <sub>3</sub> /water nanofluids. <b>2014</b> , 117, 675-681	135
1202	Superior thermal features of carbon nanotubes-based nanofluids [A review]. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 37, 155-167	16.2 161
1201	Nanoscale Fluid Mechanics and Energy Conversion. <b>2014</b> , 66,	39
1200	New insights into thermal conduction mechanisms of multi-walled carbon nanotube/ionic liquid suspensions. <b>2014</b> , 83, 89-95	12
1199	Experimental study of cooling enhancement using a Fe <sub>3</sub> O <sub>4</sub> magnetic nanofluid, in an applied magnetic field. <b>2014</b> , 547, 012044	5
1198	A study on the AC breakdown voltages of as-received palm oil and coconut oil under presence of TiO <sub>2</sub> . <b>2015</b> ,	3
1197	Numerical Analysis and Validation of Heat Transfer Mechanism of Flat Plate Collectors. <b>2015</b> , 127, 63-70	8
1196	Nanofluid as Cooling Medium in Polymer Electrolyte Membrane (PEM) Fuel Cell: A Study on Potentials and Possibilities. <b>2015</b> , 1109, 319-323	3
1195	Investigation on stability and density of methanol based TiO <sub>2</sub> nanofluids. <b>2015</b> , 88, 012057	5
1194	Experimental Evaluation of Heat Transfer Rate in Automobile Cooling System by Using Nanofluids. <b>2015</b> ,	3
1193	Effects of scan rate on the corrosion behavior SS 304 stainless steel in the nanofluid measured by Tafel polarization methods. <b>2015</b> ,	3
1192	Experimental Investigation of Al <sub>2</sub> O <sub>3</sub> - Water Ethylene Glycol Mixture Nanofluid Thermal Behaviour in a Single Cooling Plate for PEM Fuel Cell Application. <b>2015</b> , 79, 252-258	20
1191	Influence of temperature and inhibitor content on the lifetime of copper nanoparticles in a propylene glycol-based nanofluid. <b>2015</b> , 66, 1397-1401	1
1190	Thermal Conductivity and Specific Heat Capacity of Dodecylbenzenesulfonic Acid-Doped Polyaniline Particles/Water Based Nanofluid. <b>2015</b> , 7, 1221-1231	22
1189	The magnetohydrodynamic stagnation point flow of a nanofluid over a stretching/shrinking sheet with suction. <b>2015</b> , 10, e0117733	38
1188	Evaluating the Optical Properties of TiO <sub>2</sub> Nanofluid for a Direct Absorption Solar Collector. <b>2015</b> , 67, 1010-1027	43

1187	Thermo-physical properties of water-based single-walled carbon nanotube nanofluid as advanced coolant. <b>2015</b> , 87, 344-351	59
1186	Specific heat of metal oxide nanofluids at high concentrations for heat transfer. <b>2015</b> , 88, 872-879	77
1185	Stability and enhanced thermal conductivity of ethylene glycol-based SiC nanofluids. <b>2015</b> , 89, 613-619	87
1184	Stagnation-point heat transfer of nanofluids toward stretching sheets with variable thermo-physical properties. <b>2015</b> , 26, 819-829	40
1183	Radiative Convective Nanofluid Flow Past a Stretching/Shrinking Sheet with Slip Effects. <b>2015</b> , 29, 513-523	68
1182	Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. <b>2015</b> , 65, 13-21	55
1181	Unsteady boundary layer flow and heat transfer over an exponentially shrinking sheet with suction in a copper-water nanofluid. <b>2015</b> , 22, 4856-4863	17
1180	Magnetic field effect on the unsteady natural convection in a right-angle trapezoidal cavity filled with a nanofluid. <b>2015</b> , 25, 1924-1946	87
1179	Multiple solutions of MHD boundary layer flow and heat transfer behavior of nanofluids induced by a power-law stretching/shrinking permeable sheet with viscous dissipation. <b>2015</b> , 273, 62-70	66
1178	Conjugate Heat Transfer from Sudden Expansion Using Nanofluid. <b>2015</b> , 67, 75-99	8
1177	Progress of Nanofluid Application in Machining: A Review. <b>2015</b> , 30, 813-828	110
1176	Surface roughness prediction using Taguchi-fuzzy logic-neural network analysis for CNT nanofluids based grinding process. <b>2015</b> , 26, 41-55	35
1175	Pressure drop and heat transfer characteristics of nanofluids in horizontal microtubes under thermally developing flow conditions. <b>2015</b> , 67, 37-47	27
1174	Thermal conductivity and viscosity of Mg(OH) <sub>2</sub> -ethylene glycol nanofluids. <b>2015</b> , 120, 1145-1149	96
1173	Thermophysical properties of methanol based Al <sub>2</sub> O <sub>3</sub> nanofluids. <b>2015</b> , 85, 414-419	50
1172	Synthesis and experimental investigation of the electrical conductivity of water based magnetite nanofluids. <b>2015</b> , 274, 426-430	32
1171	Performance study on single basin single slope solar still with different water nanofluids. <b>2015</b> , 360, 45-51	188
1170	An experimental comparison of convective heat transfer and friction factor of Al <sub>2</sub> O <sub>3</sub> nanofluids in a tube with and without butterfly tube inserts. <b>2015</b> , 52, 31-39	28

1169	Heat Transfer, Pressure Drop, and Entropy Generation in a Solar Collector Using SiO <sub>2</sub> /Water Nanofluids: Effects of Nanoparticle Size and pH. <b>2015</b> , 137,	50
1168	Synthesis and ultrasonic investigations of titanium oxide nanofluids. <b>2015</b> , 206, 103-109	39
1167	Mechanism of oil molecules transportation in nano-sized shale channel: MD simulation. <b>2015</b> , 5, 25684-25692	19
1166	Transport properties and heat transfer coefficients of ZnO/(ethylene glycol + water) nanofluids. <b>2015</b> , 89, 433-443	34
1165	A comprehensive review of thermo-physical properties and convective heat transfer to nanofluids. <b>2015</b> , 89, 1065-1086	184
1164	Effects of water depth and laser pulse numbers on size properties of colloidal nanoparticles prepared by nanosecond pulsed laser ablation in liquid. <b>2015</b> , 75, 188-196	16
1163	Thermal transport and tribological properties of nanogreases for metal-mechanic applications. <b>2015</b> , 332-333, 1322-1326	29
1162	Enhancements in domestic refrigeration, approaching a sustainable refrigerator [A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 955-968	16.2 72
1161	Effect of using nanofluids and providing vacuum on the yield of corrugated wick solar still. <b>2015</b> , 103, 965-972	167
1160	Mixed convection in a lid-driven square cavity filled by a nanofluid: Buongiorno's mathematical model. <b>2015</b> , 266, 792-808	87
1159	Influence of thermal boundary conditions on MHD natural convection in square enclosure using Cu/water nanofluid. <b>2015</b> , 1, 134-144	11
1158	Heat transfer enhancement of turbulent nanofluid flow over various types of internally corrugated channels. <b>2015</b> , 286, 332-341	41
1157	Performance assessment of an air-cooled heat exchanger for multiwalled carbon nanotubes-water nanofluids. <b>2015</b> , 89, 346-355	17
1156	Viscosity of diethylene glycol-based Y <sub>2</sub> O <sub>3</sub> nanofluids. <b>2015</b> , 10, 458-465	3
1155	Tribological Properties of Oil-Based ZnO Nanofluids. <b>2015</b> , 645-646, 437-443	1
1154	A new correlation for predicting the thermal conductivity of nanofluids; using dimensional analysis. <b>2015</b> , 90, 121-130	69
1153	The Effect of Type and Concentration of Nano-Particles on the Mass Transfer Coefficients: Experimental and Sherwood Number Correlating. <b>2015</b> , 50, 1776-1784	11
1152	Thermal-lens probing of the enhanced thermal diffusivity of gold nanofluid-ethylene glycol mixture. <b>2015</b> , 119, 453-460	22

1151	Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods. <b>2015</b> , 121, 1273-1278	115
1150	Flank Wear Characterization in Aluminum Alloy (6061 T6) With Nanofluid Minimum Quantity Lubrication Environment Using an Uncoated Carbide Tool. <b>2015</b> , 137,	10
1149	Performance enhancement of solar collectors—A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 49, 192-210	16.2 214
1148	Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends—A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 49, 563-573	16.2 122
1147	Unsteady mixed nano-bioconvection flow in a horizontal channel with its upper plate expanding or contracting. <b>2015</b> , 86, 174-182	40
1146	Electrowetting of partially wetting thin nanofluid films. <b>2015</b> , 31, 4160-8	13
1145	Potential applications of deep eutectic solvents in nanotechnology. <b>2015</b> , 273, 551-567	306
1144	Enhancing nano-scale computational fluid dynamics with molecular pre-simulations: Unsteady problems and design optimisation. <b>2015</b> , 115, 46-53	9
1143	Heat transfer analysis of GO-water nanofluid flow between two parallel disks. <b>2015</b> , 4, 23-30	17
1142	Modeling and simulation of nanomaterials in fluids: nanoparticle self-assembly. <b>2015</b> , 419-441	
1141	Sustainable machining utilizing vegetable oil based nanofluids. <b>2015</b> ,	2
1140	Rotation and migration of nanoparticles for heat transfer augmentation in nanofluids by molecular dynamics simulation. <b>2015</b> , 6, 182-193	19
1139	Experimental Investigation on the Performance and Emission Characteristics of Di-Diesel Engine Using Diesel-Ethanol Blends with Aqueous Cerium Oxide Nanofluid as Additive. <b>2015</b> , 787, 741-745	3
1138	Influence of magnetic field on the onset of nanofluid convection induced by purely internal heating. <b>2015</b> , 121, 26-36	50
1137	Experimental analysis of corrosion and erosion phenomena on metal surfaces by nanofluids. <b>2015</b> , 104, 605-614	39
1136	Mechanism of Nanoparticles Functioning and Effects in Machining Processes: A Review. <b>2015</b> , 2, 3539-3544	27
1135	Enhancement of characteristic performance of silicone oil with semi conductive nano particles. <b>2015</b> ,	2
1134	Convective Performance of 0.1% Volume Fraction of TiO <sub>2</sub> /water Nanofluid in an Electronic Heat Sink. <b>2015</b> , 105, 412-417	13

1133	The onset of MHD nanofluid convection with Hall current effect. <b>2015</b> , 130, 1	38
1132	Applications of nanorefrigerant and nanolubricants in refrigeration, air-conditioning and heat pump systems: A review. <b>2015</b> , 68, 91-97	45
1131	Thermodynamic and Phase Behavior of Nanofluids. <b>2015</b> , 317-333	1
1130	Coupled effects of hydrophobic layer and vibration on thermal efficiency of two-phase closed thermosyphons. <b>2015</b> , 5, 10332-10340	24
1129	Combined effect of physical properties and convective heat transfer coefficient of nanofluids on their cooling efficiency. <b>2015</b> , 68, 32-42	17
1128	Brinkman convection induced by purely internal heating in a rotating porous medium layer saturated by a nanofluid. <b>2015</b> , 286, 592-601	38
1127	Improved Machining Performance with Nanoparticle Enriched Cutting Fluids under Minimum Quantity Lubrication (MQL) Technique: A Review. <b>2015</b> , 2, 3545-3551	29
1126	Effect of the Concentration of Zinc Oxide Nano Fluid for Enhancing the Performance of Stirling Engine. <b>2015</b> , 1123, 274-280	
1125	Bridging Thermal and Electrical Transport in Dielectric Nanostructure-Based Polar Colloids. <b>2015</b> , 14, 889-895	4
1124	Measurement of latent heat of vaporization of nanofluids using calorimetric technique. <b>2015</b> , 122, 1341-1346	5
1123	A review of studies on using nanofluids in flat-plate solar collectors. <b>2015</b> , 122, 1245-1265	91
1122	Experimental Investigation of Thermal Conductivity and Electrical Conductivity of Al <sub>2</sub> O <sub>3</sub> Nanofluid in Water - Ethylene Glycol Mixture for Proton Exchange Membrane Fuel Cell Application. <b>2015</b> , 61, 61-68	113
1121	Review of heat transfer in nanofluids: Conductive, convective and radiative experimental results. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1182-1198	16.2 183
1120	Heat transfer and friction characteristics of Al <sub>2</sub> O <sub>3</sub> /water and CNT/water nanofluids in transition flow using helical screw tape inserts [a comparative study. <b>2015</b> , 88, 78-88	47
1119	Free Convection in a Square Cavity Filled with a Porous Medium Saturated by Nanofluid Using Tiwari and Das Nanofluid Model. <b>2015</b> , 106, 595-610	122
1118	Stability of stainless-steel nanoparticle and water mixtures. <b>2015</b> , 272, 34-44	33
1117	Fuzzy logic-based approach to investigate the novel uses of nano suspended lubrication in precise machining of aerospace AL tempered grade 6061. <b>2015</b> , 89, 286-295	30
1116	Influence of twist length variations on thermal/hydraulic specifications of twisted-tape inserts in presence of Cu/water nanofluid. <b>2015</b> , 61, 230-240	59



1115	Boundary layer flow and heat transfer over a nonlinearly permeable stretching/shrinking sheet in a nanofluid. <b>2014</b> , 4, 4404	62
1114	Liquid-liquid extraction intensification with magnetite nanofluid single drops under oscillating magnetic field. <b>2015</b> , 21, 1152-1159	36
1113	A Review of Thermal Conductivity Models for Nanofluids. <b>2015</b> , 36, 1085-1110	145
1112	A review on hybrid nanofluids: Recent research, development and applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 164-177	16.2 646
1111	Experimental Study of Two Phase Closed Thermosyphon Using CuO/Water Nanofluid in the Presence Of Electric Field. <b>2015</b> , 28, 328-343	14
1110	Effects of nanoparticles diameter and concentration on natural convection of the Al <sub>2</sub> O <sub>3</sub> -water nanofluids considering variable thermal conductivity around a vertical cone in porous media. <b>2015</b> , 26, 224-235	122
1109	Investigating the effect of Brownian motion and viscous dissipation on the nanofluid heat transfer in a trapezoidal microchannel heat sink. <b>2015</b> , 26, 83-90	37
1108	Viscosity of nanofluids: particle shape and fractal aggregates. <b>2015</b> , 53, 174-186	12
1107	Review on combined heat and mass transfer characteristics in nanofluids. <b>2015</b> , 87, 49-67	148
1106	Molecular dynamics pre-simulations for nanoscale computational fluid dynamics. <b>2015</b> , 18, 461-474	34
1105	Diffusion of Nanoparticles in Gases and Liquids. <b>2016</b> , 1193-1218	
1104	Analysis of working nanofluids for a refrigeration system. <b>2016</b> , 83, 176-183	5
1103	THERMAL AND HYDRODYNAMIC PERFORMANCE OF A MICROCHANNEL HEAT SINK COOLED WITH CARBON NANOTUBES NANOFLUID. <b>2016</b> , 78,	
1102	Numerical Investigation of CuO-Water Nanofluid Flow and Heat Transfer across a Heated Square Cylinder. <b>2016</b> , 9, 382-393	1
1101	Entropy Generation and Heat Transfer Performances of Al <sub>2</sub> O <sub>3</sub> -Water Nanofluid Transitional Flow in Rectangular Channels with Dimples and Protrusions. <b>2016</b> , 18, 148	9
1100	Nanofluids Based on Carbon Nanostructures. <b>2016</b> ,	3
1099	Critical Review on Nanofluids: Preparation, Characterization, and Applications. <b>2016</b> , 2016, 1-22	73
1098	Mathematical Modeling and Computer Simulations of Nanofluid Flow with Applications to Cooling and Lubrication. <b>2016</b> , 1, 16	31

1097	Numerical Simulation of Entropy Generation with Thermal Radiation on MHD Carreau Nanofluid towards a Shrinking Sheet. <b>2016</b> , 18, 200	80
1096	Review of the Thermo-Physical Properties and Performance Characteristics of a Refrigeration System Using Refrigerant-Based Nanofluids. <b>2016</b> , 9, 22	21
1095	Evaporation and Vapor Formation of Graphite Suspensions Based on Water in a High-Temperature Gas Environment: an Experimental Investigation. <b>2016</b> , 110, 01013	
1094	Application of Nanofluid in Heat Exchangers for Energy Savings. <b>2016</b> , 73-101	6
1093	Environmental and exergy benefit of nanofluid-based hybrid PV/T systems. <b>2016</b> , 123, 431-444	144
1092	Investigation on the CPU nanofluid cooling. <b>2016</b> , 63, 159-165	52
1091	Heat transfer and entropy generation in mixed convection of a nanofluid within an inclined skewed cavity. <b>2016</b> , 102, 596-609	31
1090	Effects of thermal radiation and electromagnetohydrodynamics on viscous nanofluid through a Riga plate. <b>2016</b> , 12, 605-618	31
1089	Heat and Mass Transfer in MHD Boundary Layer Flow over a Nonlinear Stretching Sheet in a Nanofluid with Convective Boundary Condition and Viscous Dissipation. <b>2016</b> , 203-219	3
1088	Effect of Surface Roughness on Contact Angle Measurement of Nanofluid on Surface of Stainless Steel 304 by Sessile Drop Method. <b>2016</b> , 739, 012029	27
1087	Fractal aggregation kinetics contributions to thermal conductivity of nano-suspensions in unsteady thermal convection. <b>2016</b> , 6, 39446	9
1086	Influence of the combined effect of magnetic field and rotation on the onset of a non-Newtonian viscoelastic nanofluid layer: Linear and nonlinear analyses. <b>2016</b> , 131, 1	4
1085	Increasing entropy for colloidal stabilization. <b>2016</b> , 6, 36836	22
1084	Heat Transfer Enhancements of Low Volume Concentration CNT/Water Nanofluid and Wire Coil Inserts in a Circular Tube. <b>2016</b> , 90, 552-558	30
1083	Nanofluid slip flow over a stretching cylinder with Schmidt and Péclet number effects. <b>2016</b> , 6, 055316	33
1082	Tribological studies on chemically modified rapeseed oil with CuO and CeO <sub>2</sub> nanoparticles. <b>2016</b> , 230, 1562-1571	34
1081	Natural convection in a wavy open porous cavity filled with a nanofluid: Tiwari and Das nanofluid model. <b>2016</b> , 131, 1	36
1080	Nonlinear radiative heat transfer in MHD three-dimensional flow of water based nanofluid over a non-linearly stretching sheet with convective boundary condition. <b>2016</b> , 35, 178-198	80

1079	Optimization of a circular-wavy cavity filled by nanofluid under the natural convection heat transfer condition. <b>2016</b> , 98, 758-767	132
1078	Analysis of a hybrid nanofluid exposed to radiation. <b>2016</b> , 69, 271-286	20
1077	Free convection in a square porous cavity filled with a nanofluid using thermal non equilibrium and Buongiorno models. <b>2016</b> , 26, 671-693	35
1076	Predicting the effective thermal conductivity of nanofluids for intensification of heat transfer using artificial neural network. <b>2016</b> , 301, 288-309	31
1075	Applications of nanotechnology to improve the performance of solar collectors [Recent advances and overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 62, 767-792	16.2 149
1074	Model and comparative study for rotating flow of nanofluids due to convectively heated exponentially stretching sheet. <b>2016</b> , 220, 635-641	52
1073	Synthesis and characterization of TiO <sub>2</sub> water nanofluids with different surfactants. <b>2016</b> , 75, 341-348	75
1072	Viscosity of nanofluids: A review of recent experimental studies. <b>2016</b> , 73, 114-123	216
1071	Design of bio-inspired computing technique for nanofluidics based on nonlinear Jeffery-Hamel flow equations. <b>2016</b> , 94, 474-489	39
1070	Specific heat control of nanofluids: A critical review. <b>2016</b> , 107, 25-38	77
1069	Natural convection in a triangular cavity filled with a nanofluid-saturated porous medium using three heat equation model. <b>2016</b> , 94, 604-615	14
1068	Thermal Conductivity and Viscosity of Nanofluids Having Nanoencapsulated Phase Change Material. <b>2016</b> , 20, 85-96	48
1067	Application of nanofluids during minimum quantity lubrication: A case study in turning process. <b>2016</b> , 101, 234-246	88
1066	Natural convection of silica nanofluids in square and triangular enclosures: Theoretical and experimental study. <b>2016</b> , 99, 792-804	92
1065	Performance of a Plate Heat Exchanger Operated with Water-Al <sub>2</sub> O <sub>3</sub> Nanofluid. <b>2016</b> , 831, 188-197	11
1064	Multi Objective Optimization of Multi Wall Carbon Nanotube Based Nanogrinding Wheel Using Grey Relational and Regression Analysis. <b>2016</b> , 97, 407-416	4
1063	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO <sub>2</sub> (2080)-SAE40 hybrid nano-lubricant. <b>2016</b> , 76, 133-138	177
1062	Experimental studies on viscosity, thermal and electrical conductivity of aluminum nitride-ethylene glycol (AlN-EG) nanofluids. <b>2016</b> , 637, 11-16	90

1061	Experimental Investigation of Electrical Conductivity and Permittivity of SC-TiO <sub>2</sub> -EG Nanofluids. <b>2016</b> , 11, 375	20
1060	Towards a Multiscale Simulation Approach of Nanofluids for Volumetric Solar Receivers: Assessing Inter-particle Potential Energy. <b>2016</b> , 91, 3-10	7
1059	Three dimensional stagnation point flow of bionanofluid with variable transport properties. <b>2016</b> , 55, 1983-1993	17
1058	Performance evaluation on vacuum pumps using nanolubricants. <b>2016</b> , 30, 4275-4283	5
1057	Enhancement of thermal conductivity of transformer oil by exfoliated white graphene nanosheets. <b>2016</b> ,	3
1056	Mixed convection nanofluid flow over microscale forward-facing step [Effect of inclination and step heights. <b>2016</b> , 78, 145-154	42
1055	Analysing the Performance of a Flat Plate Solar Collector with Silver/Water Nanofluid Using Artificial Neural Network. <b>2016</b> , 93, 33-40	35
1054	Synthesis and characterization of CeO <sub>2</sub> /water nanofluids and its thermal properties. <b>2016</b> ,	1
1053	Spectral optical constants of ethanol and isopropanol from ultraviolet to far infrared. <b>2016</b> , 60, 137-141	99
1052	A revised model to analyze the heat and mass transfer mechanisms in the flow of Carreau nanofluids. <b>2016</b> , 103, 291-297	49
1051	Convective heat transfer enhancement with nanoaerosols. <b>2016</b> , 102, 1180-1189	4
1050	Convective Heat Transfer Enhancement with Nanofluids: A State-of-the-Art Review. <b>2016</b> , 55-98	
1049	A cascade nanofluid-based PV/T system with optimized optical and thermal properties. <b>2016</b> , 112, 963-975	94
1048	Effect of morphology of carbon nanomaterials on thermo-physical characteristics, optical properties and photo-thermal conversion performance of nanofluids. <b>2016</b> , 99, 888-897	51
1047	Experimental study of forced convection and subcooled flow boiling heat transfer in a vertical annulus using different novel functionalized ZnO nanoparticles. <b>2016</b> , 109, 789-802	20
1046	A review of thermophysical properties of water based composite nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 66, 654-678	16.2 118
1045	Particle migration in isobaric and flash evaporation of nanofluids. <b>2016</b> , 80, 101-109	3
1044	A review on nanofluids: Data-driven modeling of thermalphysical properties and the application in automotive radiator. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 66, 596-616	16.2 46

1043	Numerical study for rotating flow of nanofluids caused by an exponentially stretching sheet. <b>2016</b> , 27, 2223-2231	34
1042	Numerical investigation of mixed convection heat transfer of nanofluids in a lid-driven trapezoidal cavity. <b>2016</b> , 77, 195-205	31
1041	Entropy generation analysis of graphenealumina hybrid nanofluid in multiport minichannel heat exchanger coupled with thermoelectric cooler. <b>2016</b> , 103, 1084-1097	145
1040	Rheological Behaviour of Graphene Nano-sheets in Hydrogenated Oil-based Drilling Fluid. <b>2016</b> , 148, 49-56	29
1039	Dissipative particle dynamics simulations of the viscosities of molten TNT and molten TNT suspensions containing nanoparticles. <b>2016</b> , 22, 216	
1038	Experimental study on the thermo-physical properties of car engine coolant (water/ethylene glycol mixture type) based SiC nanofluids. <b>2016</b> , 77, 159-164	44
1037	Experimental investigation of the effect of nanoparticle size on thermal conductivity of in-situ prepared silicaethanol nanofluid. <b>2016</b> , 77, 148-154	55
1036	Engineering Mathematics I. <b>2016</b> ,	1
1035	Mixed convection heat transfer of nanofluid over microscale vertical duct preceded with a double-step expansion using Lattice Boltzmann Method. <b>2016</b> , 11, JTST0003-JTST0003	
1034	Numerical investigation of nanofluid flow and conjugated heat transfer in a micro-heat-exchanger using the lattice Boltzmann method. <b>2016</b> , 70, 1390-1401	15
1033	Effect of nano sized garnet particles dispersion on the viscous behavior of extreme pressure lubricant oil. <b>2016</b> , 223, 643-651	33
1032	Statistical investigation of AC breakdown voltage of nanofluids compared with mineral and natural ester oil. <b>2016</b> , 10, 644-652	63
1031	Review of the mechanisms responsible for heat transfer enhancement using nanofluids. <b>2016</b> , 108, 720-739	129
1030	Preparation and evaluation of stable nanofluids for heat transfer application: A review. <b>2016</b> , 79, 202-212	203
1029	References. <b>2016</b> , 267-302	
1028	Water-carbon nanofluid flow with variable heat flux by a thin needle. <b>2016</b> , 224, 786-791	95
1027	Conduction and convection heat transfer characteristics of ethylene glycol based nanofluids [A review]. <b>2016</b> , 184, 681-695	60
1026	Thermal transport phenomena in nanoparticle suspensions. <b>2016</b> , 28, 483003	40

1025	Numerical study of pressure drop and heat transfer from circular and cam-shaped tube bank in cross-flow of nanofluid. <b>2016</b> , 129, 319-328	24
1024	Stably dispersed high-temperature Fe <sub>3</sub> O <sub>4</sub> /silicone-oil nanofluids for direct solar thermal energy harvesting. <b>2016</b> , 4, 17503-17511	35
1023	Investigations on serpentine tube type solar photovoltaic/thermal collector with different heat transfer fluids: Experiment and numerical analysis. <b>2016</b> , 140, 12-20	19
1022	Oscillatory instability of convection in ferromagnetic nanofluid and in transformer oil. <b>2016</b> , 48, 061407	4
1021	Numerical study of effect parameter fluid flow nanofluid Al <sub>2</sub> O <sub>3</sub> -water on heat transfer in corrugated tube. <b>2016</b> ,	1
1020	A preliminary study on the potency of nanofluids as the electro-active materials for nanoelectrofuel flow batteries. <b>2016</b> ,	3
1019	Characterization of TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Nanoparticle based Cutting Fluids. <b>2016</b> , 3, 1890-1898	16
1018	Characterization and experimental investigation of Al <sub>2</sub> O <sub>3</sub> nanoparticle based cutting fluid in turning of AISI 1040 steel under minimum quantity lubrication (MQL). <b>2016</b> , 3, 1899-1906	64
1017	Developing the laminar MHD forced convection flow of water/FMWNT carbon nanotubes in a microchannel imposed the uniform heat flux. <b>2016</b> , 419, 420-428	86
1016	Heat transfer augmentation in a tube using nanofluids under constant heat flux boundary condition: A review. <b>2016</b> , 123, 290-307	49
1015	Water cooled corrugated minichannel heat sink for electronic devices: Effect of corrugation shape. <b>2016</b> , 76, 188-196	65
1014	Throughflow and quadratic drag effects on the onset of convection in a Forchheimer-extended Darcy porous medium layer saturated by a nanofluid. <b>2016</b> , 38, 2299-2309	10
1013	Tribological Investigation of TiO <sub>2</sub> Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL). <b>2016</b> , 3, 2155-2162	48
1012	Double Dispersion for Double Diffusive Boundary Layer in Non-Darcy Saturated Porous Medium Filled by a Nanofluid <i>Journal of Mechanics</i> , Vol. 32, No. 4, August 2016 <i>Journal of Mechanics</i> , Vol. 32, No. 4, August 2016. <b>2016</b> , 32, 441-451	7
1011	CO <sub>2</sub> regeneration performance enhancement by nanoabsorbents for energy conversion application. <b>2016</b> , 103, 980-988	11
1010	Review on nanofluids characterization, heat transfer characteristics and applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 64, 163-173	16.2 138
1009	Nanofluids to improve the performance of PEM fuel cell cooling systems: A theoretical approach. <b>2016</b> , 178, 660-671	81
1008	Heatline visualization of natural convection heat transfer in an inclined wavy cavities filled with nanofluids and subjected to a discrete isoflux heating from its left sidewall. <b>2016</b> , 55, 169-186	44

1007	Double diffusion natural convection in a square cavity filled with nanofluid. <b>2016</b> , 95, 1070-1083		31
1006	Forced convection enhancement in channels with transversal ribs and nanofluids. <b>2016</b> , 98, 1044-1053		51
1005	Performance of water-based TiO <sub>2</sub> nanofluid during the minimum quantity lubrication machining of aluminium alloy, AA6061-T6. <b>2016</b> , 135, 1623-1636		79
1004	Comments on $\square$ review on the applications of nanofluids in solar energy systems $\square$ <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 58, 1687-1688	16.2	
1003	A comprehensive review on graphene nanofluids: Recent research, development and applications. <b>2016</b> , 111, 466-487		202
1002	Synthesis and thermo-physical properties of deep eutectic solvent-based graphene nanofluids. <b>2016</b> , 27, 075702		30
1001	Streaming potential and heat transfer of nanofluids in microchannels in the presence of magnetic field. <b>2016</b> , 407, 75-82		32
1000	Numerical study of MHD nanofluid flow and heat transfer past a bidirectional exponentially stretching sheet. <b>2016</b> , 407, 69-74		50
999	Effects of non-Newtonian behaviour on the thermal performance of nanofluids in a horizontal channel with discrete regions of heating and cooling. <b>2016</b> , 94, 404-412		25
998	Single-phase and two-phase treatments of convective heat transfer enhancement with nanofluids $\square$ A state-of-the-art review. <b>2016</b> , 100, 75-97		115
997	Numerical study of convective heat transfer of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 54, 1212-1239	16.2	179
996	Experimental investigation of the relation between yield stress and ultrasonication period of nanofluid. <b>2016</b> , 93, 1169-1174		26
995	Heat transfer enhancement in a closed thermosyphon with thermally conductive PA6/water. <b>2016</b> , 101, 322-329		14
994	Semi-analytical solution for the flow of a nanofluid over a permeable stretching/shrinking sheet with velocity slip using Buongiorno's mathematical model. <b>2016</b> , 58, 39-49		20
993	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> , <b>2016</b> , 60, 1584-1601	16.2	48
992	GPU-accelerated inverse identification of radiative properties of particle suspensions in liquid by the Monte Carlo method. <b>2016</b> , 172, 146-159		16
991	Streaming potential and heat transfer of nanofluids in parallel plate microchannels. <b>2016</b> , 498, 239-247		25
990	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> , <b>2016</b> , 60, 1615-1633	16.2	76

989	Effects of the particle size and temperature on the efficiency of nanofluids using molecular dynamic simulation. <b>2016</b> , 69, 996-1013		13
988	Measurements of Densities of Propylene Glycol-Based Nanofluids and Comparison With Theory. <b>2016</b> , 8,		8
987	Thermal analysis of Al <sub>2</sub> O <sub>3</sub> /water ethylene glycol mixture nanofluid for single PEM fuel cell cooling plate: An experimental study. <b>2016</b> , 41, 5096-5112		63
986	Experimental investigation of flank wear in end milling of aluminum alloy with water-based TiO <sub>2</sub> nanofluid lubricant in minimum quantity lubrication technique. <b>2016</b> , 86, 2527-2537		32
985	Performance of direct absorption solar collector with nanofluid mixture. <b>2016</b> , 114, 1-10		79
984	Non-intrusive dynamic measurements of nanofluid-based heat transfer phenomena under thermally developing flow regime in the context of compact channels. <b>2016</b> , 74, 271-285		18
983	Momentum and heat transfer characteristics from heated spheroids in water based nanofluids. <b>2016</b> , 96, 582-601		16
982	Nanofluid flow and heat transfer in a microchannel with longitudinal vortex generators: Two-phase numerical simulation. <b>2016</b> , 100, 179-189		41
981	The novel approach for the enhancement of rheological properties of water-based drilling fluids by using multi-walled carbon nanotube, nanosilica and glass beads. <b>2016</b> , 139, 264-275		135
980	Environmental impacts and hazards associated with metal working fluids and recent advances in the sustainable systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 60, 1008-1031	16.2	53
979	Application of thermosensitive polymers in stabilization of colloids. <b>2016</b> , 27, 471-480		5
978	The study of electrical conductivity and diffusion behavior of water-based and ferro/ferricyanide-electrolyte-based alumina nanofluids. <b>2016</b> , 469, 17-24		15
977	A review on preparation, characterization, properties and applications of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 60, 21-40	16.2	342
976	Role of temperature on thermal conductivity of nanofluids: a brief literature review. <b>2016</b> , 52, 2575-2585		16
975	Experimental study on the thermo-physical properties of diathermic oil based SiC nanofluids for high temperature applications. <b>2016</b> , 97, 631-637		55
974	An experimental determination of thermal conductivity and electrical conductivity of bio glycol based Al <sub>2</sub> O <sub>3</sub> nanofluids and development of new correlation. <b>2016</b> , 73, 75-83		59
973	Single-phase heat transfer enhancement in micro/minichannels using nanofluids: Theory and applications. <b>2016</b> , 164, 733-755		101
972	Single-phase models for improved estimation of friction factor for laminar nanofluid flow in pipes. <b>2016</b> , 95, 416-425		8



971	Numerical Study on Mixed Convection and Entropy Generation of a Nanofluid in a Lid-Driven Square Enclosure. <b>2016</b> , 138,	28
970	Thermodynamic investigation and multi-objective optimization for jet impingement cooling system with Al <sub>2</sub> O <sub>3</sub> /water nanofluid. <b>2016</b> , 111, 38-56	22
969	An Integrated Liquid Cooling System Based on Galinstan Liquid Metal Droplets. <b>2016</b> , 8, 2173-80	80
968	Effects of surface waviness on heat and fluid flow in a nanofluid filled closed space with partial heating. <b>2016</b> , 52, 1909-1921	10
967	Convective boundary layer flow and heat transfer in a nanofluid in the presence of second order slip, constant heat flux and zero nanoparticles flux. <b>2016</b> , 297, 95-103	15
966	Numerical analysis of magnetic field effects on hydro-thermal behavior of a magnetic nanofluid in a double pipe heat exchanger. <b>2016</b> , 402, 131-142	46
965	Comparative Study on Heat Transfer Enhancement of Low Volume Concentration of Al <sub>2</sub> O <sub>3</sub> Water and Carbon Nano-TubeWater Nano-Fluids in Transition Regime Using Helical Screw Tape Inserts. <b>2016</b> , 29, 17-36	17
964	Effect of volume concentration and temperature on viscosity and surface tension of grapheneWater nanofluid for heat transfer applications. <b>2016</b> , 123, 1399-1409	113
963	MHD mixed convection nanofluid flow and heat transfer over an inclined cylinder due to velocity and thermal slip effects: Buongiorno's model. <b>2016</b> , 288, 140-150	71
962	Rheological behaviour of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 779-791	197
961	Thermophysical properties of ethylene glycol based yttrium aluminum garnet (Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> ) nanofluids. <b>2016</b> , 92, 751-756	42
960	Flow of a nanofluid in the microspacing within co-rotating discs of a Tesla turbine. <b>2016</b> , 40, 485-499	7
959	Experimental studies on the stability of CuO nanoparticles dispersed in different base fluids: influence of stirring, sonication and surface active agents. <b>2016</b> , 52, 55-62	69
958	Experimental Studies on Convective Heat Transfer and Pressure Drop Characteristics of Metal and Metal Oxide Nanofluids Under Turbulent Flow Regime. <b>2016</b> , 37, 422-434	11
957	Rheological properties and thermal conductivity of AlNpoly(propylene glycol) suspensions. <b>2016</b> , 52, 103-112	5
956	Enhanced thermal conductivity of nanofluids by nanoconvection and percolation network. <b>2016</b> , 52, 511-520	8
955	Thermal Performance Analysis of Nanofluid Thermal Conductivity Models in a Cooling Chamber. <b>2017</b> , 31, 28-38	6
954	Effect of Serpentine Grooves on Heat Transfer Characteristics of Microchannel Heat Sink with Different Nanofluids. <b>2017</b> , 46, 201-217	9

- 953 Stagnation Point Flow of a Nanofluid Past a Permeable Cylinder with Chemical Reaction. **2017**, 46, 483-496
- 952 Nanofluids for Enhanced Solar Thermal Energy Conversion. **2017**, 115-148
- 951 Mechanism of Heat Transfer with Nanofluids for the Application in Oil Wells. **2017**, 175-192 1
- 950 Heat and mass transfer analysis in natural convection flow of nanofluid over a vertical cone with chemical reaction. **2017**, 27, 2-22 28
- 949 A facile way to prepare CuS-oil nanofluids with enhanced thermal conductivity and appropriate viscosity. **2017**, 19, 1 9
- 948 Spreadability studies of metal working fluids on tool surface and its impact on minimum amount cooling and lubrication turning. **2017**, 244, 1-16 44
- 947 Complementary optical absorption and enhanced solar thermal conversion of CuO-ATO nanofluids. **2017**, 162, 83-92 73
- 946 Engineering Applications of Nanotechnology. **2017**, 5
- 945 Effect of chemical reaction and viscous dissipation on MHD nanofluid flow over a horizontal cylinder: Analytical solution. **2017**, 8
- 944 Comparative study of thermo-physical properties of SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> nanoparticles dispersed in PAG lubricant. **2017**, 116, 823-832 52
- 943 An investigation into the thermophysical and optical properties of SiC/ionic liquid nanofluid for direct absorption solar collector. **2017**, 163, 157-163 71
- 942 Wetting behavior of multi-walled carbon nanotube nanofluids. **2017**, 28, 105706 23
- 941 Experimental Assessment of Saturation Behavior of Boiling Nanofluids: Pressure and Temperature. **2017**, 31, 732-738 12
- 940 Preparation and stability of silicone dioxide dispersed in polyalkylene glycol based nanolubricants. **2017**, 90, 01049 13
- 939 Slip effects on MHD Hiemenz stagnation point nanofluid flow and heat transfer along a nonlinearly shrinking sheet with induced magnetic field: multiple solutions. **2017**, 39, 3363-3374 8
- 938 Dynamics of interphase surface of self-sustaining evaporation front in liquid with additives of nanosized particles. **2017**, 55, 79-86 13
- 937 Numerical Study of Variable Fluid Properties and Magnetic Field on Convectively Heated Inclined Plate Utilizing Nanofluids. **2017**, 3, 3305-3320 0
- 936 Effects of axis ratio, nanoparticle volume fraction and its size on the momentum and heat transfer phenomena from an elliptic cylinder in water-based CuO nanofluids. **2017**, 313, 272-286 13

935	Flow and heat transfer of magnetohydrodynamic three-dimensional Maxwell nanofluid over a permeable stretching/shrinking surface with convective boundary conditions. <b>2017</b> , 124-125, 166-173		47
934	Advanced nanomaterials in oil and gas industry: Design, application and challenges. <b>2017</b> , 191, 287-310		137
933	Numerical simulation of natural convection heat transfer of a nanofluid in an L-shaped enclosure with a heating obstacle. <b>2017</b> , 72, 70-84		109
932	Optical properties of various nanofluids used in solar collector: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 1014-1030	16.2	72
931	Viscosity and thermal conductivity of MgO/EG nanofluids. <b>2017</b> , 129, 171-180		48
930	Nonintrusive Diagnostics of Nanofluids-Based Natural Convection Heat Transfer over a Heated Cylinder. <b>2017</b> , 31, 674-685		7
929	A review on thermophysical properties of nanofluids and heat transfer applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 74, 638-670	16.2	289
928	The influence of ash content on thermophysical properties of ethylene glycol based graphite/diamonds mixture nanofluids. <b>2017</b> , 74, 81-89		40
927	Effect of temperature and mass fraction on viscosity of crude oil-based nanofluids containing oxide nanoparticles. <b>2017</b> , 82, 103-113		41
926	The effect of nanoparticle type and nanoparticle mass fraction on heat transfer enhancement in pool boiling. <b>2017</b> , 109, 157-166		40
925	Low-frequency vibration for fouling mitigation and intensification of thermal performance of a plate heat exchanger working with CuO/water nanofluid. <b>2017</b> , 121, 388-399		102
924	Experimental investigation of thermophysical properties of Al <sub>2</sub> O <sub>3</sub> /water nanofluid: Role of surfactants. <b>2017</b> , 237, 304-312		75
923	Numerical investigation on heat transfer performance and flow characteristics in circular tubes with dimpled twisted tapes using Al <sub>2</sub> O <sub>3</sub> -water nanofluid. <b>2017</b> , 111, 962-981		48
922	Nanofluids effects on the evaporation rate in a solar still equipped with a heat exchanger. <b>2017</b> , 36, 134-155		260
921	Thermal conductivity and viscosity optimization of nanodiamond-Co <sub>3</sub> O <sub>4</sub> /EG (40:60) aqueous nanofluid using NSGA-II coupled with RSM. <b>2017</b> , 238, 545-552		91
920	Thermal-hydraulic analysis of nanofluids as the coolant in supercritical water reactors. <b>2017</b> , 128, 47-56		12
919	Optical properties of nanofluids considering particle size distribution: Experimental and theoretical investigations. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 78, 452-465	16.2	36
918	Buoyancy effects on nanofluid flow past a convectively heated vertical Riga-plate: A numerical study. <b>2017</b> , 111, 827-835		81

917	State-of-art review on hybrid nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 551-565	16.2	297
916	A bioconvection model for a squeezing flow of nanofluid between parallel plates in the presence of gyrotactic microorganisms. <b>2017</b> , 132, 1		14
915	Performance of cutting nanofluids in tribological testing and conventional drilling. <b>2017</b> , 25, 70-76		21
914	Experimental and numerical investigation on forced convection heat transfer and pressure drop in helically coiled pipes using TiO <sub>2</sub> /water nanofluid. <b>2017</b> , 74, 627-643		48
913	Photo-thermal conversion characteristics of MWCNT-H <sub>2</sub> O nanofluids for direct solar thermal energy absorption applications. <b>2017</b> , 124, 486-493		56
912	Thermophysical properties measurement of nano cellulose in ethylene glycol/water. <b>2017</b> , 123, 1158-1165		19
911	Numerical study of different conduction models for Al <sub>2</sub> O <sub>3</sub> -water nanofluid with variable properties inside a trapezoidal enclosure. <b>2017</b> , 31, 2433-2441		2
910	Thermal performance and thermal properties of hybrid nanofluid laminar flow in a double pipe heat exchanger. <b>2017</b> , 88, 37-45		56
909	Microfluidic Electrochemical Impedance Spectroscopy of Carbon Composite Nanofluids. <b>2017</b> , 7, 722		7
908	Synthesis and characterization of exfoliated polystyrene grafted hexagonal boron nitride nanosheets and their potential application in heat transfer nanofluids. <b>2017</b> , 26, 467-480		9
907	Artificial neural network modeling of nanofluid flow in a microchannel heat sink using experimental data. <b>2017</b> , 86, 25-31		57
906	Combustion characteristics of nanofluid fuels in a half-opening slot tube. <b>2017</b> , 60, 1075-1087		10
905	A new kind of water-based nanofluid with a low loading of three-dimensional porous graphene. <b>2017</b> , 52, 10485-10496		4
904	Numerical simulation of the nanoparticle diameter effect on the thermal performance of a nanofluid in a cooling chamber. <b>2017</b> , 58, 291-300		3
903	A state of the art review on viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 1134-1152	16.2	236
902	Evaluation of performance and thermophysical properties of alumina nanofluid as a new heating medium for processing of food products. <b>2017</b> , 40, e12544		11
901	Numerical Solution of the Onset of Natural Convection in a Rotating Nanofluid Layer Induced by Purely Internal Heating. <b>2017</b> , 3, 3663-3681		11
900	Numerical study of partial slip effects on MHD flow of nanofluids near a convectively heated stretchable rotating disk. <b>2017</b> , 234, 287-295		28

899	A Review of Nano Fluid Role to Improve the Performance of the Heat Pipe Solar Collectors. <b>2017</b> , 109, 417-424	52
898	Nanoparticles based drilling muds a solution to drill elevated temperature wells: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 1301-1313	16.2 106
897	Numerical simulation of convective heat transfer of nonhomogeneous nanofluid using Buongiorno model. <b>2017</b> , 53, 2627-2636	6
896	Effect of variable thermal conductivity models on the combined convection heat transfer in a square enclosure filled with a water/Alumina nanofluid. <b>2017</b> , 58, 103-115	6
895	Stability, rheology and thermal analysis of functionalized alumina- thermal oil-based nanofluids for advanced cooling systems. <b>2017</b> , 142, 215-229	97
894	Turbulent heat transfer to separation nanofluid flow in annular concentric pipe. <b>2017</b> , 117, 14-25	16
893	Molecular dynamics simulation of dispersion improvement of graphene sheets in nanofluids by steric hindrance resulting from functional groups. <b>2017</b> , 43, 228-233	4
892	Electromagnetohydrodynamic Flow and Heat Transfer of Nanofluid in a Parallel Plate Microchannel. <b>2017</b> , 33, 115-124	7
891	Predicting Physical Properties of Nanofluids by Computational Modeling. <b>2017</b> , 121, 1910-1917	18
890	Experimental investigation of pool boiling characteristics in Al <sub>2</sub> O <sub>3</sub> nanofluid according to surface roughness and concentration. <b>2017</b> , 114, 86-97	44
889	The lattice Boltzmann investigation of natural convection for nanofluid based battery thermal management. <b>2017</b> , 115, 659-669	37
888	Analysis of nano-bioconvection flow containing both nanoparticles and gyrotactic microorganisms in a horizontal channel using modified least square method (MLSM). <b>2017</b> , 227, 356-365	23
887	Overview of nanofluid application through minimum quantity lubrication (MQL) in metal cutting process. <b>2017</b> ,	3
886	Dispersion stability of thermal nanofluids. <b>2017</b> , 27, 531-542	181
885	Exhaust temperature analysis of four stroke diesel engine by using MWCNT/Water nanofluids as coolant. <b>2017</b> , 4, 104001	
884	Carbon nanotube-based magnetic bucky gels in developing dispersive solid-phase extraction: application in rapid speciation analysis of Cr(VI) and Cr(III) in water samples. <b>2017</b> , 97, 1065-1079	20
883	Thermophysical properties of water based Cu nanofluid used in special type of coil heat exchanger. <b>2017</b> , 127, 933-943	23
882	Computations for nanofluid flow near a stretchable rotating disk with axial magnetic field and convective conditions. <b>2017</b> , 7, 3137-3144	22

881	HAM solutions on MHD squeezing axisymmetric flow of water nanofluid through saturated porous medium between two parallel disks. <b>2017,</b>	
880	Synthesis of Al <sub>2</sub> O <sub>3</sub> Nanoparticles from Local Bauxite for Water- Al <sub>2</sub> O <sub>3</sub> Nanofluids egypt. <b>2017,</b> 799, 012014	2
879	Study of dispersion stability and thermo-physical properties of CuO-Jatropha oil-based nanolubricants. <b>2017,</b> 39, 3657-3668	8
878	An investigation of thermal characteristics of eutectic molten salt-based nanofluids. <b>2017,</b> 87, 98-104	25
877	Design, performance and economic analysis of a nanofluid-based photovoltaic/thermal system for residential applications. <b>2017,</b> 149, 467-484	70
876	Colloidal Stability of Metal Nanoparticles in Engine Oil under Thermal and Mechanical Load. <b>2017,</b> 40, 1569-1576	14
875	Aging-resistant nanofluids containing covalent functionalized boron nitride nanosheets. <b>2017,</b> 28, 405704	9
874	Molecular dynamics simulation of the effects of affinity of functional groups and particle-size on the behavior of a graphene sheet in nanofluid. <b>2017,</b> 139, 202-208	5
873	Exact Analysis of the Flow and Heat Transfer of the SA-TiO <sub>2</sub> Non-Newtonian Nanofluid Between Two Coaxial Cylinders Through a Porous Medium. <b>2017,</b> 72, 855-862	
872	Subcooled flow boiling heat transfer of Al <sub>2</sub> O <sub>3</sub> /water nanofluids in horizontal microtubes and the effect of surface characteristics and nanoparticle deposition. <b>2017,</b> 127, 536-546	16
871	Effects of magnetohydrodynamics and hybrid nanoparticles on a micropolar fluid with 6-types of stenosis. <b>2017,</b> 7, 4130-4139	38
870	An overview of current status of cutting fluids and cooling techniques of turning hard steel. <b>2017,</b> 114, 380-394	83
869	Thermal conductivity of diethylene glycol based magnesium aluminum spinel (MgAl <sub>2</sub> O <sub>4</sub> -DG) nanofluids. <b>2017,</b> 53, 1905-1909	
868	Buongiorno's model for fluid flow around a moving thin needle in a flowing nanofluid: A numerical study. <b>2017,</b> 55, 1264-1274	47
867	Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review. <b>2017,</b> 39, 4677-4717	34
866	Computational investigation of heat transfer and entropy generation rates of Al <sub>2</sub> O <sub>3</sub> nanofluid with Buongiorno's model and using a novel TVD hybrid LB method. <b>2017,</b> 242, 24-39	10
865	Synthesis and thermal conductivity characteristic of hybrid nanofluids [A review]. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017,</b> 75, 868-878	16.2 131
864	Analysis of heat transfer of different nanofluids flow through an abrupt expansion pipe. <b>2017,</b> 112, 965-974	11

863	Numerical Investigation of the Entropy Generation Due to Natural Convection in a Partially Heated Square Cavity Filled With Nanofluids. <b>2017</b> , 38, 1506-1521	5
862	Sensitivity of thermal conductivity for Al <sub>2</sub> O <sub>3</sub> nanofluids. <b>2017</b> , 80, 19-26	75
861	Thermal conductivity, viscosity, and electrical conductivity of iron oxide with a cloud fractal structure. <b>2017</b> , 53, 1343-1354	8
860	Entropy generation as a practical tool of optimisation for non-Newtonian nanofluid flow through a permeable stretching surface using SLM. <b>2017</b> , 4, 21-28	45
859	Studies on natural convection within enclosures of various (non-square) shapes [A review]. <b>2017</b> , 106, 356-406	115
858	Unsteady three-dimensional MHD flow of a nano Eyring-Powell fluid past a convectively heated stretching sheet in the presence of thermal radiation, viscous dissipation and Joule heatingPeer review under responsibility of University of Bahrain.View all notes. <b>2017</b> , 23, 75-84	43
857	Finite Element Analysis of Viscoelastic Nanofluid Flow with Energy Dissipation and Internal Heat Source/Sink Effects. <b>2017</b> , 3, 1421-1447	12
856	Potential of nanorefrigerant and nanolubricant on energy saving in refrigeration system [A review]. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 415-428	16.2 111
855	Hydrodynamics and mass transfer characteristics of circulating single drops with effect of different size nanoparticles. <b>2017</b> , 175, 298-304	21
854	Experimental investigation on portable mini solar pond using sodium chloride salt. <b>2017</b> ,	
853	Investigation on the electrical properties of palm oil and coconut oil based TiO <sub>2</sub> nanofluids. <b>2017</b> , 24, 3432-3442	19
852	Comparative numerical investigation on effect of characteristic parameters on thermal energy enhancement by alumina-water and cupric-oxide-water nanofluids. <b>2017</b> ,	
851	Nanofluid Types, Their Synthesis, Properties and Incorporation in Direct Solar Thermal Collectors: A Review. <b>2017</b> , 7,	84
850	Rapid Evaporation of Water on Graphene/Graphene-Oxide: A Molecular Dynamics Study. <b>2017</b> , 7,	65
849	Nanofluids and Applications to Energy Systems. <b>2017</b> , 429-439	4
848	The Effect of Mo addition in stainless steels on the corrosion behavior in the nano fluids contain Al <sub>2</sub> O <sub>3</sub> nano particles. <b>2017</b> , 214, 012015	
847	Mobility and settling rate of agglomerates of polydisperse nanoparticles. <b>2018</b> , 148, 064703	5
846	Numerical study for forced MHD convection heat transfer of a nanofluid in a square cavity with a cylinder of constant heat flux. <b>2018</b> , 133, 1	11

845	Computational analysis of nanofluids: A review. <b>2018</b> , 133, 1	14
844	Numerical modelling of thermophoresis in water-alumina nanofluid under pool boiling conditions. <b>2018</b> , 129, 1-13	10
843	Thermal diffusivity control in titanium dioxide nanofluid through phase tuning. <b>2018</b> , 5, 075001	23
842	Synthesis of novel microencapsulated phase change materials with copper and copper oxide for solar energy storage and photo-thermal conversion. <b>2018</b> , 179, 87-94	69
841	Tribological evaluation of calcium-copper-titanate/cerium oxide-based nanolubricants in sliding contact. <b>2018</b> , 30, 175-187	20
840	Mechanism for improvement in refrigeration system performance by using nanorefrigerants and nanolubricants [A review]. <b>2018</b> , 92, 56-63	34
839	Poly (sodium p-styrene sulfonate) modified Fe <sub>3</sub> O <sub>4</sub> nanoparticles as effective additives in water-based drilling fluids. <b>2018</b> , 165, 786-797	21
838	MHD stagnation point flow and heat transfer of a nanofluid over a permeable nonlinear stretching/shrinking sheet with viscous dissipation effect. <b>2018</b> ,	4
837	Shrinkage and colour in the production of micro-sized PDMS particles for microfluidic applications. <b>2018</b> , 28, 075002	12
836	Up to date review on the synthesis and thermophysical properties of hybrid nanofluids. <b>2018</b> , 190, 169-192	111
835	Experimental study of electrochemical mass transfer in an annular duct with the electrolyte nanofluid. <b>2018</b> , 129, 280-289	5
834	Nonlinear unsteady convection on micro and nanofluids with Cattaneo-Christov heat flux. <b>2018</b> , 9, 779-786	41
833	Review of pool boiling enhancement with additives and nanofluids. <b>2018</b> , 124, 423-453	88
832	Isobaric heat capacity and density of ethylene glycol based nanofluids containing various nitride nanoparticle types: An experimental study. <b>2018</b> , 261, 530-539	47
831	Synthesis of Carbon Nanotubes and Nanospheres from Coconut Fibre and the Role of Synthesis Temperature on Their Growth. <b>2018</b> , 47, 3788-3794	6
830	Effect of Al <sub>2</sub> O <sub>3</sub> Nanoparticles Additives on the Density, Saturated Vapor Pressure, Surface Tension and Viscosity of Isopropyl Alcohol. <b>2018</b> , 39, 1	8
829	Evaporation of water droplets with metallic inclusions. <b>2018</b> , 102, 64-76	7
828	Review of critical-heat-flux enhancement methods. <b>2018</b> , 122, 275-289	41



827	Enhancement in the supercapacitive storage performance of MnCO <sub>3</sub> using SiO <sub>x</sub> nanofluid-based electrolyte. <b>2018</b> , 22, 1795-1800	5
826	Three dimensional radiative flow of magnetite-nanofluid with homogeneous-heterogeneous reactions. <b>2018</b> , 8, 268-275	33
825	Thermo-electrical performance of PEM fuel cell using Al <sub>2</sub> O <sub>3</sub> nanofluids. <b>2018</b> , 119, 460-471	32
824	Thermal-physical properties of nanoparticle-seeded nitrate molten salts. <b>2018</b> , 120, 275-288	59
823	Mass and Energy Balances for Systems with Nanoparticles. <b>2018</b> , 179-213	
822	Mass and Energy Balances. <b>2018</b> ,	0
821	Effect of particle size and solid holdup on heat transfer performance of a SiC/water three-phase closed thermosyphon. <b>2018</b> , 132, 808-816	12
820	Experimental Investigation of the Effect of Nano Heavy Metal Oxide Particles in Piperazine Solution on CO <sub>2</sub> Absorption Using a Stirrer Bubble Column. <b>2018</b> , 32, 2037-2052	21
819	Carbon nanotube nanofluid in enhancing the efficiency of evacuated tube solar collector. <b>2018</b> , 121, 36-44	142
818	Performance analysis of hybrid nanofluids in flat plate solar collector as an advanced working fluid. <b>2018</b> , 167, 231-241	90
817	Integrating nitrogen-doped graphitic carbon with Au nanoparticles for excellent solar energy absorption properties. <b>2018</b> , 184, 1-8	70
816	Ensemble Shuffled Population Algorithm for multi-objective thermal design optimization of a plate frame heat exchanger operated with Al <sub>2</sub> O <sub>3</sub> /water nanofluid. <b>2018</b> , 69, 250-269	5
815	Accessing individual 75-micron diameter nozzles of a desktop inkjet printer to dispense picoliter droplets on demand.. <b>2018</b> , 8, 14765-14774	16
814	Change of Thermal Conductivity and Cooling Performance for Water Based Al <sub>2</sub> O <sub>3</sub> -Surfactant Nanofluid with Time Lapse. <b>2018</b> , 26, 1850009	6
813	ENTROPY GENERATION IN A WILLIAMSON NANOFLUID NEAR A STAGNATION POINT OVER A MOVING PLATE WITH BINARY CHEMICAL REACTION AND ACTIVATION ENERGY. <b>2018</b> , 49, 1131-1149	8
812	Three-dimensional flow of a nanofluid over a permeable stretching/shrinking surface with velocity slip: A revised model. <b>2018</b> , 30, 033604	22
811	A new correlation for estimating the thermal conductivity and dynamic viscosity of CuO/liquid paraffin nanofluid using neural network method. <b>2018</b> , 92, 90-99	74
810	A thermodynamic study of water-based nanosuspensions as secondary heat transfer fluids in refrigeration systems. <b>2018</b> , 89, 104-111	5

809	Thermal energy transport on MHD nanofluid flow over a stretching surface: A comparative study. <b>2018</b> , 21, 60-69	25
808	Melting and second order slip effect on convective flow of nanofluid past a radiating stretching/shrinking sheet. <b>2018</b> , 7, 60-71	12
807	A mathematical model of MHD nanofluid flow having gyrotactic microorganisms with thermal radiation and chemical reaction effects. <b>2018</b> , 30, 1237-1249	87
806	Numerical simulation of double-diffusive mixed convection in an enclosure filled with nanofluid using Bejan's heatlines and masslines. <b>2018</b> , 57, 1287-1300	20
805	On MHD radiative Jeffery nanofluid flow with convective heat and mass boundary conditions. <b>2018</b> , 30, 2739-2748	28
804	Enhancement of Heat Transfer in Partially Heated Vertical Channel Under Mixed Convection by Using Al <sub>2</sub> O <sub>3</sub> Nanoparticles. <b>2018</b> , 39, 229-240	9
803	Thermal Enhancement of Triangular Ducts Using Compound of Vortex Generators and Nanofluids. <b>2018</b> , 39, 422-435	1
802	A revised model to study the MHD nanofluid flow and heat transfer due to rotating disk: numerical solutions. <b>2018</b> , 30, 957-964	18
801	Modelling of a direct absorption solar receiver using carbon based nanofluids under concentrated solar radiation. <b>2018</b> , 128, 495-508	42
800	Experimental Study on Laminar Forced Convection of Al <sub>2</sub> O <sub>3</sub> /Water and Multiwall Carbon Nanotubes/Water Nanofluid of Varied Particle Concentration with Helical Twisted Tape Inserts in Pipe Flow. <b>2018</b> , 39, 806-818	16
799	Effects of Nano-Nozzles Cross-Sectional Geometry on Fluid Flow: Molecular Dynamic Simulation. <b>2018</b> , 34, 667-678	1
798	Numerical simulations of the influence of Brownian and gravitational forces on the stability of CuO nanoparticles by the Eulerian-Lagrangian approach. <b>2018</b> , 47, 72-87	5
797	A comprehensive review of preparation, characterization, properties and stability of hybrid nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 1669-1689	16.2 133
796	Heat transfer and pressure drop performance of alumina-water nanofluid in a flat vertical tube of a radiator. <b>2018</b> , 205, 257-268	15
795	Advances in Nanomaterials. <b>2018</b> ,	1
794	Thermal performance analysis of a flat heat pipe working with carbon nanotube-water nanofluid for cooling of a high heat flux heater. <b>2018</b> , 54, 985-997	77
793	A Review on the Application of Nanofluids in Coiled Tube Heat Exchangers. <b>2018</b> , 443-465	3
792	Applications of nanofluids in solar energy: A review of recent advances. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3483-3502	16.2 216

791	Compensating effect of ultrasonic waves on retarding action of nanoparticles in drops liquid-liquid extraction. <b>2018</b> , 41, 514-520	4
790	A Review of Nanofluid Synthesis. <b>2018</b> , 135-176	6
789	The onset of MHD nanofluid convection between a porous layer in the presence of purely internal heat source and chemical reaction. <b>2018</b> , 131, 2657-2672	18
788	Study of heat and mass transfer on MHD WaltersB?nanofluid flow induced by a stretching porous surface. <b>2018</b> , 57, 2435-2443	20
787	Experimental and Statistical Analysis of MgO Nanofluids for Thermal Enhancement in a Novel Flat Plate Heat Pipes. <b>2018</b> , 17, 1760018	5
786	Turbulent flow and heat transfer of Water/Al <sub>2</sub> O <sub>3</sub> nanofluid inside a rectangular ribbed channel. <b>2018</b> , 96, 73-84	99
785	Utilization of Nanofluid in Various Clean Energy and Energy Efficiency Applications. <b>2018</b> , 3-33	1
784	Evaluation of performance of nanofluid using multiwalled carbon nanotubes for machining of TiBAl <sub>2</sub> V. <b>2018</b> , 22, 476-492	26
783	Turbulent forced convection of nanofluids downstream an abrupt expansion. <b>2018</b> , 54, 685-696	1
782	Experimental investigation of the effects of temperature and mass fraction on the dynamic viscosity of CuO-paraffin nanofluid. <b>2018</b> , 128, 189-197	59
781	Natural Convection Heat Transfer in a Nanofluid Filled U-Shaped Enclosures: Numerical Investigations. <b>2018</b> , 39, 1450-1460	22
780	Chinese ink: High performance nanofluids for solar energy. <b>2018</b> , 176, 374-380	29
779	Progress in enhancement of CO <sub>2</sub> absorption by nanofluids: A mini review of mechanisms and current status. <b>2018</b> , 118, 527-535	187
778	Enhanced headspace single drop microextraction method using deep eutectic solvent based magnetic bucky gels: Application to the determination of volatile aromatic hydrocarbons in water and urine samples. <b>2018</b> , 41, 966-974	40
777	Investigation into the effects of slip boundary condition on nanofluid flow in a double-layer microchannel. <b>2018</b> , 131, 2975-2991	97
776	Experimental investigation of optimum thermal performance and pressure drop of water-based Al <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> and ZnO nanofluids flowing inside a circular microchannel. <b>2018</b> , 131, 2843-2863	20
775	Development of bubble absorption refrigeration technology: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3468-3482	16.2 26
774	Heat transfer mechanisms in heat pipes using nanofluids A review. <b>2018</b> , 90, 84-100	87

773	AC Dielectric Strength of Mineral Oil-Based Fe <sub>3</sub> O <sub>4</sub> and Al <sub>2</sub> O <sub>3</sub> Nanofluids. <b>2018</b> , 11, 3505	22
772	Effects of Nanoparticles Materials on Heat Transfer in Electro-Insulating Liquids. <b>2018</b> , 8, 2538	14
771	A review on the impact of process energy on the environmental performance of milling. <b>2018</b> ,	
770	Thermal and electric conductivity of insulating oils with magnetite nanoparticles. <b>2018</b> ,	1
769	Numerical investigation of heat transfer by an impinging jet using alumina/water nanofluid. <b>2018</b> , 74, 1486-1502	7
768	Electro-Insulating Nanofluids Based on Synthetic Ester and TiO <sub>2</sub> or C <sub>60</sub> Nanoparticles in Power Transformer. <b>2018</b> , 11, 1953	13
767	Entropy generation analysis for non-similar analytical study of nanofluid flow and heat transfer under the influence of aligned magnetic field. <b>2018</b> , 57, 3299-3310	13
766	Experimental investigation of forced convection of water/EG-Al <sub>2</sub> O <sub>3</sub> nanofluids inside horizontal tube. <b>2018</b> , 70, 02004	1
765	Breakdown Characteristics of C <sub>60</sub> Modified Transformer Oil. <b>2018</b> ,	
764	Role on nanofluids in cooling solar photovoltaic cell to enhance overall efficiency. <b>2018</b> , 5, 20614-20620	26
763	Rheological behaviour of functionalized graphene nanoplatelet nanofluids based on water and propylene glycol:water mixtures. <b>2018</b> , 99, 43-53	33
762	Numerical investigation of fluid flow and heat transfer of nanofluids in microchannel with longitudinal fins. <b>2018</b> , 9, 3411-3418	24
761	Cooling performance of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a minichannel with thermal buoyancy and wall conduction effects. <b>2018</b> , 12, 833-842	6
760	Heat transfer enhancement with nanofluids: A review on recent applications and experiments. <b>2018</b> ,	3
759	Entropy Analysis of 3D Non-Newtonian MHD Nanofluid Flow with Nonlinear Thermal Radiation Past over Exponential Stretched Surface. <b>2018</b> , 20,	21
758	Magnetohydrodynamics Flow Past a Moving Vertical Thin Needle in a Nanofluid with Stability Analysis. <b>2018</b> , 11, 3297	32
757	Dielectric breakdown study of a nanofluid based on goethite nanoparticles. <b>2018</b> , 25, 2206-2211	2
756	Silicone oil-based solar-thermal fluids dispersed with PDMS-modified Fe <sub>3</sub> O <sub>4</sub> @graphene hybrid nanoparticles. <b>2018</b> , 28, 554-562	21

755	Vapour absorption enhancement using passive techniques for absorption cooling/heating technologies: A review. <b>2018</b> , 231, 826-853	23
754	The effect of nano-additives in diesel-biodiesel fuel blends: A comprehensive review on stability, engine performance and emission characteristics. <b>2018</b> , 178, 146-177	240
753	Effects of impulse waveform parameters on the breakdown characteristics of nano-TiO <sub>2</sub> modified transformer oil. <b>2018</b> , 25, 1651-1659	8
752	An experimental evaluation on thermophysical properties of functionalized graphene nanoplatelets ionanofluids. <b>2018</b> , 98, 31-40	33
751	Comprehensive review of principle factors for thermal conductivity and dynamic viscosity enhancement in thermal transport applications: An analytical tool approach. <b>2018</b> , 98, 13-21	6
750	Three-Dimensional Magnetohydrodynamic Mixed Convection Flow of Nanofluids over a Nonlinearly Permeable Stretching/Shrinking Sheet with Velocity and Thermal Slip. <b>2018</b> , 8, 1128	14
749	Numerical study of heat transfer enhancement in the entrance region for low-pressure gaseous laminar pipe flows using Al <sub>2</sub> O <sub>3</sub> /air nanofluid. <b>2018</b> , 10, 168781401878441	10
748	Recent advances and prospects in polymeric nanofluids application for enhanced oil recovery. <b>2018</b> , 66, 1-19	78
747	A practical evaluation of the performance of Al <sub>2</sub> O <sub>3</sub> -water, TiO <sub>2</sub> -water and CuO-water nanofluids for convective cooling. <b>2018</b> , 126, 639-651	22
746	Natural Convection Heat Transfer in 2D and 3D Trapezoidal Enclosures Filled with Nanofluid. <b>2018</b> , 59, 292-302	7
745	Particle size effect on thermophysical properties of nanofluid and nanofluid based phase change materials: A review. <b>2018</b> , 265, 77-87	55
744	Optimization of thermophysical properties of Al <sub>2</sub> O <sub>3</sub> /water-EG (80:20) nanofluids by NSGA-II. <b>2018</b> , 103, 264-272	13
743	Heat transfer and pressure drop correlations of nanofluids: A state of art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 91, 564-583	16.2 40
742	Thermophysical properties of CNT and CNT/Al <sub>2</sub> O <sub>3</sub> hybrid nanofluid. <b>2018</b> , 13, 617-621	35
741	Review of computational fluid dynamics (CFD) researches on nano fluid flow through micro channel. <b>2018</b> ,	2
740	Global advancement on experimental and thermal analysis of evacuated tube collector with and without heat pipe systems and possible applications. <b>2018</b> , 228, 351-389	74
739	Novel Nanofluid Based on Water-Loaded Delafossite CuAlO <sub>2</sub> Nanowires: Structural and Thermal Properties. <b>2018</b> , 2018, 1-6	1
738	Analysis of mixed convection flow in an inclined lid-driven enclosure with Buongiorno's nanofluid model. <b>2018</b> , 126, 221-236	30

737	Enhanced heat and mass transfer in solar stills using nanofluids: A review. <b>2018</b> , 170, 694-722	93
736	A Realistic Look at Nanostructured Material as an Innovative Approach for Enhanced Oil Recovery Process Upgrading. <b>2018</b> ,	2
735	Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication. <b>2018</b> , 377, 012017	6
734	Parabolic Trough Solar Collector for Medium Temperature Applications: An Experimental Analysis of the Efficiency and Length Optimization by Using Inserts. <b>2018</b> , 140,	8
733	Viscosity of Ar-Cu nanofluids by molecular dynamics simulations: Effects of nanoparticle content, temperature and potential interaction. <b>2018</b> , 268, 490-496	25
732	Nanotechnology for the oil and gas industry [an overview of recent progress. <b>2018</b> , 7, 341-353	18
731	Comparative Energy, Exergy, and Environmental Analyses of Parabolic Trough Solar Thermal Power Plant Using Nanofluids. <b>2018</b> , 943-967	1
730	Convective stagnation point flow of a MHD non-Newtonian nanofluid towards a stretching plate. <b>2018</b> , 127, 768-780	43
729	Stability Analysis of Mixed Convection Flow towards a Moving Thin Needle in Nanofluid. <b>2018</b> , 8, 842	21
728	Application of artificial neural networks for viscosity of crude oil-based nanofluids containing oxides nanoparticles. <b>2018</b> , 168, 263-272	16
727	Thermodynamic paths for calculating energy balance in systems containing nanoparticles. <b>2018</b> , 706, 145-150	1
726	A review of the internal forced convective heat transfer characteristics of nanofluids: Experimental features, mechanisms and thermal performance criteria. <b>2018</b> , 32, 3491-3505	6
725	Can the Temperature Dependence of the Heat Transfer Coefficient of the Wire-Nanofluid Interface Explain the Anomalous Thermal Conductivity of Nanofluids Measured by the Hot-Wire Method?. <b>2018</b> , 39, 1	4
724	Performance of a hydrocarbon driven domestic refrigerator based on varying concentration of SiO <sub>2</sub> nano-lubricant. <b>2018</b> , 94, 59-70	25
723	Conjugate natural convection of nanofluids inside an enclosure filled by three layers of solid, porous medium and free nanofluid using Buongiorno and local thermal non-equilibrium models. <b>2019</b> , 135, 1047-1067	57
722	Recent state of nanofluid in automobile cooling systems. <b>2019</b> , 135, 981-1008	47
721	Mixed convection inside lid-driven cavities filled with nanofluids. <b>2019</b> , 135, 813-859	26
720	Theoretical study of nanofluids behavior at critical Rayleigh numbers. <b>2019</b> , 135, 3499-3518	6

719	Heat Transfer Enhancement in a Circular Tube Fitted with Twisted Tape Having Continuous Cut Edges Using CuO-Water Nanofluid. <b>2019</b> , 367-383	1
718	Heat capacity of (ethanol + diamond) nanofluid near the critical point of base fluid (ethanol). <b>2019</b> , 135, 1335-1349	3
717	Green Buildings and Sustainable Engineering. <b>2019</b> ,	0
716	Experimental investigation of the effect of an external magnetic field on the thermal conductivity and viscosity of Fe <sub>3</sub> O <sub>4</sub> /glycerol. <b>2019</b> , 135, 1451-1464	9
715	Preparation and Thermophysical Investigations of CoFe <sub>2</sub> O <sub>4</sub> -based Nanofluid: a Potential Heat Transfer Agent. <b>2019</b> , 32, 341-351	11
714	An updated review on application of nanofluids in heat exchangers for saving energy. <b>2019</b> , 198, 111886	193
713	Plasmonic nanofluids for high photothermal conversion efficiency in direct absorption solar collectors: Fundamentals and applications. <b>2019</b> , 201, 110084	37
712	Comparison of experimental and theoretical methods of obtaining the thermal properties of alumina/iron mono and hybrid nanofluids. <b>2019</b> , 292, 111377	45
711	Viscosity and thermal conductivity comparative study for hybrid nanofluid in binary base fluids. <b>2019</b> , 48, 3144-3161	16
710	Wavelet analysis of stagnation point flow of non-Newtonian nanofluid. <b>2019</b> , 40, 1211-1226	35
709	Use of Nanofluids in Solar PV/Thermal Systems. <b>2019</b> , 2019, 1-17	40
708	Control volume finite element method for entropy generation minimization in mixed convection of nanofluids. <b>2019</b> , 75, 363-382	5
707	Heat transfer enhancement in shell and tube heat exchanger by using Al <sub>2</sub> O <sub>3</sub> /water and TiO <sub>2</sub> /water nanofluid. <b>2019</b> ,	6
706	Experimental analysis of heat transfer with CuO, Al <sub>2</sub> O <sub>3</sub> /water-ethylene glycol nanofluids in automobile radiator. <b>2019</b> ,	4
705	Stability Analysis of Cross Diffusion for the Walters B Fluid Model Saturated With Permeable Nanofluid. <b>2019</b> , 11,	1
704	Molecular Simulations of Adsorption and Thermal Energy Storage of Mixed R1234ze/UiO-66 Nanoparticle Nanofluid. <b>2019</b> , 2019, 1-5	1
703	Soret and Dufour Effect on Non-Darcy Natural Convection Flow of Buongiorno Nanofluid over a Vertical Plate in a Porous Medium in the Presence of Viscous Dissipation. <b>2019</b> , 392, 60-72	2
702	Modeling and computational analysis of hybrid class nanomaterials subject to entropy generation. <b>2019</b> , 179, 104973	86

701	An experimental investigation on thermal conductivity and stability of aqueous and nonaqueous nanofluids containing AgCu alloy nanoparticles. <b>2019</b> , 6, 115027	2
700	Contribution of Metal-Organic-Heat Carrier nanoparticles in a R245fa low-grade heat recovery Organic Rankine Cycle. <b>2019</b> , 199, 111960	8
699	Efficiency Improvement of a Photovoltaic Thermal (PVT) System Using Nanofluids. <b>2019</b> , 12, 3063	37
698	Experimental analysis of SiO <sub>2</sub> -Distilled water nanofluids in a Polymer Electrolyte Membrane fuel cell parallel channel cooling plate. <b>2019</b> , 44, 25850-25862	20
697	Photo-thermal performance evaluation on MWCNTs-dispersed microencapsulated PCM slurries for direct absorption solar collectors. <b>2019</b> , 26, 100793	15
696	Enhanced heat transfer properties of RGO-TiO <sub>2</sub> based Ethylene Glycol Nanofluids. <b>2019</b> , 18, 1096-1107	4
695	Thermal Properties of Lipid Bilayers Determined Using Upconversion Nanothermometry. <b>2019</b> , 29, 1905474	59
694	Characterization the effects of nanofluids and heating on flow in a baffled vertical channel. <b>2019</b> , 14,	1
693	Suppression Mechanism of TiO <sub>2</sub> for the Partial Discharge of Oil-paper Insulation in Intensive Electric Field. <b>2019</b> ,	4
692	Numerical study of CeO <sub>2</sub> /H <sub>2</sub> O nanofluid application on thermal performance of heat pipe. <b>2019</b> , 18, 1006-1016	10
691	Effect of an uniform magnetic field on unsteady natural convection of nanofluid. <b>2019</b> , 13, 1073-1086	5
690	Graphene Oxide Nanosheets for Oil Recovery. <b>2019</b> , 2, 5730-5742	14
689	Applications of nanofluids in photovoltaic thermal systems: A review of recent advances. <b>2019</b> , 536, 122513	75
688	Optical and dielectric properties of ethylene glycol-based nanofluids containing nanodiamonds with various purities. <b>2019</b> , 356, 508-516	13
687	Energy integration and interaction between buildings and vehicles: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 114, 109337	16.2 46
686	Particulate Functionalized Nanodiamond as a Low Concentration Additive to Liquid Systems to Enhance Their Thermal Extraction Capability. <b>2019</b> ,	1
685	Energy storage analysis of CO <sub>2</sub> in MOF-74 and UIO-66 nanoparticles: A molecular simulation study. <b>2019</b> , 33, 1950196	2
684	Magnetohydrodynamics Stagnation-Point Flow of a Nanofluid Past a Stretching/Shrinking Sheet with Induced Magnetic Field: A Revised Model. <b>2019</b> , 11, 1078	2



683	. <b>2019</b> ,	3
682	The effects of graphene oxide nanoparticle additive stably dispersed in dairy scum oil biodiesel-diesel fuel blend on CI engine: performance, emission and combustion characteristics. <b>2019</b> , 257, 116015	85
681	Particle size and concentration effect on thermal diffusivity of water-based ZnO nanofluid using the dual-beam thermal lens technique. <b>2019</b> , 125, 1	11
680	Analysis of double diffusive convection in electroosmosis regulated peristaltic transport of nanofluids. <b>2019</b> , 535, 122148	34
679	Heat transfer and pressure drop investigation of graphene nanoplatelet-water and titanium dioxide-water nanofluids in a horizontal tube. <b>2019</b> , 162, 114256	23
678	MWCNT in PEG-400 nanofluids for thermal applications: A chemical, physical and thermal approach. <b>2019</b> , 294, 111616	23
677	Sustainable Cooling and Lubrication Strategies in Machining Processes: A Comparative Study. <b>2019</b> , 33, 786-793	14
676	An experimental investigation on heat transfer and friction factor of Silicon Carbide/water nanofluids in a circular tube. <b>2019</b> , 158, 5156-5161	5
675	Bi-directional stretched nanofluid flow with Cattaneo-Christov double diffusion. <b>2019</b> , 15, 102581	29
674	Different Ways to Improve Natural Ester Oils. <b>2019</b> , 40, 102-106	5
673	A comprehensive review on minimum quantity lubrication (MQL) in machining processes using nano-cutting fluids. <b>2019</b> , 105, 2057-2086	95
672	Numerical modeling of natural convection in horizontal and inclined square cavities filled with nanofluid in the presence of magnetic field. <b>2019</b> , 134, 1	4
671	Ultrastable plasmonic nanofluids in optimized direct absorption solar collectors. <b>2019</b> , 199, 112010	32
670	Simultaneous influence of thermo-diffusion and diffusion-thermo on non-Newtonian hyperbolic tangent magnetised nanofluid with Hall current through a nonlinear stretching surface. <b>2019</b> , 93, 1	28
669	Two-phase modeling of the free convection of nanofluid inside the inclined porous semi-annulus enclosure. <b>2019</b> , 164, 105183	40
668	Enhancement of nanofluid heat transfer in a mini-tube using SiO <sub>2</sub> nanoparticles. <b>2019</b> , 5, 607-616	4
667	Strategies to improve the thermal performance of heat pipe solar collectors in solar systems: A review. <b>2019</b> , 183, 307-331	50
666	Numerical investigation of transient natural convection and entropy generation analysis in a porous cavity filled with nanofluid considering nanoparticles sedimentation. <b>2019</b> , 279, 327-341	16

665	Unveiling the Synergistic Effect of ZnO Nanoparticles and Surfactant Colloids for Enhanced Oil Recovery. <b>2019</b> , 29, 33-39	28
664	Nanopyroxene-Based Nanofluids for Enhanced Oil Recovery in Sandstone Cores at Reservoir Temperature. <b>2019</b> , 33, 877-890	31
663	Review on magnetic refrigeration devices based on HTSC materials. <b>2019</b> , 100, 1-12	24
662	Effects of dispersed added Graphene Oxide-Silicon Carbide nanoparticles to present a statistical formulation for the mixture thermal properties. <b>2019</b> , 521, 98-112	34
661	Laser ablation synthesis of silver nanoparticles in water and dependence on laser nature. <b>2019</b> , 51, 1	27
660	Synthesis of hydrophobic and hydrophilic TiO nanofluids for transformable surface wettability and photoactive coating. <b>2019</b> , 55, 9275-9278	10
659	Exergy and energy analysis of a wavy fin radiator with variously shaped nanofluids as coolants. <b>2019</b> , 48, 2174-2192	11
658	Investigating the effect of nanorefrigerants on a heat pump performance and cost-effectiveness. <b>2019</b> , 13, 100371	6
657	Condition Assessment of Aged Ester-Based Nanofluid Through Physicochemical and Spectroscopic Measurement. <b>2019</b> , 68, 4853-4863	15
656	Thermally Fully Developed Electroosmotic Flow of Power-Law Nanofluid in a Rectangular Microchannel. <b>2019</b> , 10,	8
655	2D MoSe <sub>2</sub> -based nanofluids prepared by liquid phase exfoliation for heat transfer applications in concentrating solar power. <b>2019</b> , 200, 109972	17
654	Laser Plasma Induced TiO <sub>2</sub> Nanoparticle Synthesis in Water and Particle Characterization. <b>2019</b> , 7, 56556-56563	
653	Ion transport in surface functionalized SnO <sub>2</sub> nanoparticles dispersed imidazolium ionanofluids: Decoupling from structural relaxation. <b>2019</b> , 285, 697-706	9
652	Comments on "Can the Temperature Dependence of the Heat Transfer Coefficient of the Wire-Nanofluid Interface Explain the Anomalous Thermal Conductivity of Nanofluids Measured by the Hot-Wire Method?" <b>2019</b> , 40, 1	2
651	Numerical analysis of entropy generation of a nanofluid in a semi-annulus porous enclosure with different nanoparticle shapes in the presence of a magnetic field. <b>2019</b> , 134, 1	45
650	Numerical Analysis of Boundary Layer Flow Adjacent to a Thin Needle in Nanofluid with the Presence of Heat Source and Chemical Reaction. <b>2019</b> , 11, 543	17
649	Potential applications of nanofluids for heat transfer. <b>2019</b> , 138, 597-607	22
648	A thermodynamically consistent model for convective transport in nanofluids: existence of weak solutions and fem computations. <b>2019</b> , 477, 41-59	6

647	Experimental investigation of thermophysical properties of R718 based nanofluids at low temperatures. <b>2019</b> , 55, 2769-2784	7
646	Investigation on stability of tri-hybrid nanofluids in water-ethylene glycol mixture. <b>2019</b> , 469, 012068	12
645	Numerical modeling of nanofluid flow and heat transfer in a quartered gearwheel-shaped heat exchanger using FVM. <b>2019</b> , 59, 591-605	2
644	Warming-up and evaporation characteristics of homogeneous and heterogeneous water droplets. <b>2019</b> , 138, 1061-1074	1
643	Experimental investigation of hybrid nano-lubricant for rheological and thermal engineering applications. <b>2019</b> , 138, 1823-1839	31
642	Coffee-based colloids for direct solar absorption. <b>2019</b> , 9, 4701	19
641	Electrical and thermal properties of insulating oil-based nanofluids: a comprehensive overview. <b>2019</b> , 2, 27-40	30
640	The effect of pulsating throughflow on the onset of magneto convection in a layer of nanofluid confined within a Hele-Shaw cell. <b>2019</b> , 233, 1074-1085	22
639	Sensitivity analysis and optimization of MHD forced convection of a Cu-water nanofluid flow past a wedge. <b>2019</b> , 134, 1	39
638	Experimental investigation on a three-phase closed thermosyphon with glass beads/water. <b>2019</b> , 154, 157-170	5
637	Accurate measurement of nanofluid thermal conductivity by use of a polysaccharide stabilising agent. <b>2019</b> , 136, 486-500	4
636	Predicting Thermal Conductivity Enhancement of Al <sub>2</sub> O <sub>3</sub> /Water and CuO/Water Nanofluids Using Quantitative Structure-Property Relationship Approach. <b>2019</b> , 4, 18-27	2
635	Interaction of thermal radiation in hydromagnetic viscoelastic nanomaterial subject to gyrotactic microorganisms. <b>2019</b> , 9, 1193-1204	19
634	Homotopy study of magnetohydrodynamic mixed convection nanofluid multiple slip flow and heat transfer from a vertical cylinder with entropy generation. <b>2019</b> , 8, 147-162	23
633	Factors affecting the thermal performance of the flat plate solar collector using nanofluids: A review. <b>2019</b> , 182, 382-396	82
632	Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms. <b>2019</b> , 13, 220-228	40
631	Experimental study on sunlight absorption characteristics of Au-CuS blended nanofluids. <b>2019</b> , 41, 2834-2844	4
630	Effects of hybrid Al <sub>2</sub> O <sub>3</sub> -CNT nanofluids and cryogenic cooling on machining of Ti6Al4V. <b>2019</b> , 102, 3895-3909	119

629	Nanofluid flow and MHD mixed convection inside a vertical annulus with moving walls and transpiration considering the effect of Brownian motion and shape factor. <b>2019</b> , 138, 501-515	9
628	Mass transfer performance enhancement by nanoabsorbents during CO <sub>2</sub> absorption process. <b>2019</b> , 137, 1-11	10
627	Enhancement of nanofluid stability and critical heat flux in pool boiling with nanocellulose. <b>2019</b> , 213, 393-402	21
626	Entropy generation in a nanofluid-filled semi-annulus cavity by considering the shape of nanoparticles. <b>2019</b> , 138, 1607-1621	39
625	Investigation on the Effects of Nanoparticles on Cutting Fluid Properties and Tribological Characteristics. <b>2019</b> , 6, 433-447	12
624	Effect of Surfactant on Breakdown Strength Performance of Transformer Oil-Based Nanofluids. <b>2019</b> , 14, 395-405	7
623	Synergetic effects of nanoparticle concentration and electrification on the breakup performance of nanofluid fuel. <b>2019</b> , 137, 940-950	7
622	Numerical Investigation of Direct Absorption Solar Collector using Nanofluids: A Review. <b>2019</b> , 469, 012059	7
621	Laser nature dependence on enhancement of optical and thermal properties of copper oxide nanofluids. <b>2019</b> , 483, 187-193	10
620	Carbon dioxide absorption in water/nanofluid by a symmetric amine-based nanodendritic adsorbent. <b>2019</b> , 242, 1562-1572	35
619	Characterization and thermal conductivity investigation of Copper-Polyaniline Nano composite synthesized by gamma radiolysis method. <b>2019</b> , 55, 2409-2417	17
618	Review of gas-liquid mass transfer enhancement by nanoparticles from macro to microscopic. <b>2019</b> , 55, 2061-2072	15
617	On the heat transport mechanism and entropy generation in a nozzle of liquid rocket engine using ferrofluid: A computational framework. <b>2019</b> , 6, 739-750	13
616	State-of-Art in Nano-Based Dielectric Oil: A Review. <b>2019</b> , 7, 13396-13410	25
615	Effect of Carbon Nanoparticles on the Crystallization of Calcium Carbonate in Aqueous Solution. <b>2019</b> , 9,	9
614	Energy and exergy analysis of a thermosiphon and forced-circulation flat-plate solar collector using MWCNT/Water nanofluid. <b>2019</b> , 14, 100416	52
613	Experimental Convection Heat Transfer Analysis of a Nano-Enhanced Industrial Coolant. <b>2019</b> , 9,	13
612	A theoretical model for the magnetohydrodynamic natural convection of a CNT-water nanofluid incorporating a renovated Hamilton-Crosser model. <b>2019</b> , 135, 548-560	24

611	Impact of heat generation/absorption on the unsteady magnetohydrodynamic stagnation point flow and heat transfer of nanofluids. <b>2019</b> , 30, 557-574	12
610	Research on Radiation Emission of CPU Thermal Design. <b>2019</b> ,	
609	Pore-scale permeability prediction for Newtonian and non-Newtonian fluids. <b>2019</b> , 10, 1717-1731	8
608	Graphene-coated copper nanoparticles for thermal conductivity enhancement in water-based nanofluid. <b>2019</b> ,	
607	Magnetohydrodynamic Stagnation Point Flow of a Maxwell Nanofluid with Variable Conductivity. <b>2019</b> , 71, 1493	11
606	The effect of nanoparticle size and nanoparticle aggregation on the flow characteristics of nanofluids by molecular dynamics simulation. <b>2019</b> , 11, 168781401988948	17
605	Role of base fluid on enhancement absorption properties of Fe <sub>3</sub> O <sub>4</sub> /ionic liquid nanofluids for direct absorption solar collector. <b>2019</b> , 194, 923-931	15
604	Entropy generation in MHD nanofluid flow with heat source/sink. <b>2019</b> , 1, 1	2
603	Concentration dependent thermo-optic properties of yellow emissive ZnO quantum dots. <b>2019</b> , 6, 126208	1
602	Viscosity of nanofluids containing anisotropic particles: A critical review and a comprehensive model. <b>2019</b> , 42, 159	8
601	Thermal Performance Analysis of CuO Nanofluid Flow in a Pipe with Helical Screw Twist Tape. <b>2019</b> , 18, 3546-3555	4
600	Nanofluids for Rotating Electrical Machines Cooling: Perspectives and Challenges. <b>2019</b> ,	1
599	Role of stabilizers on agglomeration of debris during micro-electrical discharge machining. <b>2019</b> , 23, 339-367	7
598	Investigating the effects of pH, surfactant and ionic strength on the stability of alumina/water nanofluids using DLVO theory. <b>2019</b> , 135, 1185-1196	36
597	Environmentally Conscious Machining. <b>2019</b> , 205-238	
596	The Effect of the Liquid Layer Around the Spherical and Cylindrical Nanoparticles in Enhancing Thermal Conductivity of Nanofluids. <b>2019</b> , 141,	4
595	Permittivity and electrical conductivity of copper oxide nanofluid (12 nm) in water at different temperatures. <b>2019</b> , 132, 164-173	8
594	Recent progress on concentrating direct absorption solar collector using nanofluids. <b>2019</b> , 137, 903-922	26

593	Experimental investigation of thermal radiative properties of Al <sub>2</sub> O <sub>3</sub> -paraffin nanofluid. <b>2019</b> , 177, 420-426	27
592	Comparative performance assessment of solar dish assisted s-CO <sub>2</sub> Brayton cycle using nanofluids. <b>2019</b> , 148, 295-306	100
591	Effective Prandtl Number Model Influences on the $(\gamma_{Al_2O_3} / \gamma_{H_2O})$ and $(\gamma_{Al_2O_3} / \gamma_{C_2H_6O_2})$ Nanofluids Spray Along a Stretching Cylinder. <b>2019</b> , 44, 1601-1616	29
590	Additive manufacturing technology empowered complex electromechanical energy conversion devices and transformers. <b>2019</b> , 14, 35-50	18
589	Effect of Al <sub>2</sub> O <sub>3</sub> nanoparticles on laminar, transient and turbulent flow of isopropyl alcohol. <b>2019</b> , 130, 1032-1044	21
588	Analytical study of the magnetohydrodynamic natural convection of a nanofluid filled horizontal shallow cavity with internal heat generation. <b>2019</b> , 130, 862-873	35
587	Solid-like film formed by nano-silica self-assembly at oil/water interface. <b>2019</b> , 195, 51-61	11
586	Evaluation of thermoacoustics parameters of CoFe <sub>2</sub> O <sub>4</sub> /ethylene glycol nanofluid using ultrasonic velocity technique. <b>2019</b> , 30, 1175-1186	4
585	Transient cooling characteristics of Al <sub>2</sub> O <sub>3</sub> -water nanofluid flow in a microchannel subject to a sudden-pulsed heat flux. <b>2019</b> , 151, 95-105	18
584	Numerical Study of Heat Transfer Enhancement Using Al <sub>2</sub> O <sub>3</sub> /Graphene/Water Hybrid Nanofluid Flow in Mini Tubes. <b>2019</b> , 43, 1989-2000	18
583	Heat transfer enhancement of turbulent forced nanofluid flow in a duct using triangular rib. <b>2019</b> , 134, 30-40	17
582	Investigating heat transfer properties of copper nanofluid in ethylene glycol synthesized through single and two-step routes. <b>2019</b> , 99, 243-250	20
581	Viscosity behaviour and thermal conductivity prediction of CuO-blend oil based nano-blended lubricant. <b>2019</b> , 233, 1154-1168	4
580	CFD investigation of enhanced extra-heavy oil recovery using metallic nanoparticles/steam injection in a micromodel with random pore distribution. <b>2019</b> , 174, 374-383	22
579	Energy and exergy analysis and optimization of low-flux direct absorption solar collectors (DASCs): Balancing power- and temperature-gain. <b>2019</b> , 133, 861-872	20
578	Magnetohydrodynamic Boundary Layer Flow and Heat Transfer of Nanofluids Past a Bidirectional Exponential Permeable Stretching/Shrinking Sheet With Viscous Dissipation Effect. <b>2019</b> , 141,	32
577	Experimental investigation on performance of ammonia absorption refrigeration system with TiO <sub>2</sub> nanofluid. <b>2019</b> , 98, 80-88	23
576	Experimental investigation of multiwall carbon nanotube/paraffin based heat sink for electronic device thermal management. <b>2019</b> , 179, 314-325	99

575	Numerical analysis of mixed convection of different nanofluids in concentric annulus. <b>2019</b> , 29, 1506-1525	7
574	Data-driven methods for estimating the effective thermal conductivity of nanofluids: A comprehensive review. <b>2019</b> , 131, 1211-1231	36
573	A comprehensive review on synthesis, stability, thermophysical properties, and characterization of nanofluids. <b>2019</b> , 344, 404-431	156
572	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. <b>2019</b> , 790, 1-48	495
571	Exploration of activation energy and binary chemical reaction effects on nano Casson fluid flow with thermal and exponential space-based heat source. <b>2019</b> , 15, 227-245	36
570	A comprehensive review on natural convection flow and heat transfer. <b>2019</b> , 29, 834-877	40
569	Evaluation of the superabsorbent coolant as a new approach to semi-dry machining. <b>2019</b> , 101, 2037-2050	2
568	Effects of two-phase nanofluid model and localized heat source/sink on natural convection in a square cavity with a solid circular cylinder. <b>2019</b> , 346, 952-981	34
567	Analysis of the effects of inclination angle, nanoparticle volume fraction and its size on forced convection from an inclined elliptic cylinder in aqueous nanofluids. <b>2019</b> , 136, 1433-1445	3
566	Introduction to Nanofluid. <b>2019</b> , 1-13	2
565	Rheological Behavior of Nanofluid. <b>2019</b> , 197-229	1
564	Application of Nanofluid. <b>2019</b> , 317-350	3
563	Thermal-Conductivity Enhancement of Microfluids With Ni <sub>3</sub> (β-ppza) <sub>4</sub> Cl <sub>2</sub> Metal String Complex Particles. <b>2019</b> , 141,	1
562	Experimental Study on the Thermal Conductivity of Silver Nanoparticles Synthesized Using Sargassum Angostifolium. <b>2019</b> , 43, 251-257	3
561	Experimental investigation and prediction of the thermal conductivity of water-based oxide nanofluids with low volume fractions. <b>2019</b> , 135, 257-269	3
560	Experimental investigation on heat transfer enhancement in a minichannel using CuO-water nanofluid. <b>2019</b> , 40, 847-853	4
559	An overview on the effect of ultrasonication duration on different properties of nanofluids. <b>2019</b> , 135, 393-418	68
558	Enhancing hydrocarbon productivity via wettability alteration: a review on the application of nanoparticles. <b>2019</b> , 35, 531-563	13

557	Investigation of nanofluids on heat transfer enhancement in a louvered microchannel with lattice Boltzmann method. <b>2019</b> , 135, 751-762	16
556	Convective Heat Transport in a Heat Generating Porous Layer Saturated by a Non-Newtonian Nanofluid. <b>2019</b> , 40, 1363-1382	20
555	Strategy on performance improvement of inverse Brayton cycle system for energy recovery in turbocharged diesel engines. <b>2020</b> , 234, 85-95	3
554	Natural Oils as Green Lubricants in Forming Processes. <b>2020</b> , 122-128	0
553	Flow of nanofluid with Cattaneo-Christov heat flux model. <b>2020</b> , 10, 2989-2999	18
552	Convective heat transfer performance of hybrid nanofluid in a horizontal pipe considering nanoparticles shapes effect. <b>2020</b> , 140, 411-425	44
551	Laminar flow and heat transfer of water/NDG nanofluid on tube banks with rhombic cross section with different longitudinal arrangements. <b>2020</b> , 140, 427-437	3
550	Impact of carbonaceous particles concentration in a nanofluidic electrolyte for vanadium redox flow batteries. <b>2020</b> , 156, 287-298	13
549	Nanofluids as coolant in a shell and tube heat exchanger: ANN modeling and multi-objective optimization. <b>2020</b> , 365, 124710	29
548	Caputo-Fabrizio fractional derivatives modeling of transient MHD Brinkman nanofluid: Applications in food technology. <b>2020</b> , 131, 109489	15
547	An investigation on the influence of aluminium oxide nano-additive and honge oil methyl ester on engine performance, combustion and emission characteristics. <b>2020</b> , 146, 2291-2307	72
546	Nanoparticles for water desalination in solar heat exchanger. <b>2020</b> , 139, 1619-1636	61
545	Heat transfer improvement in simulated small battery compartment using metal oxide (CuO)/deionized water nanofluid. <b>2020</b> , 56, 399-406	5
544	A comprehensive review on nanofluid operated solar flat plate collectors. <b>2020</b> , 139, 1309-1343	50
543	Heat transfer and pressure drop investigation through pipe with different shapes using different types of nanofluids. <b>2020</b> , 139, 1637-1653	37
542	Nanocellulose for oil and gas field drilling and cementing applications. <b>2020</b> , 184, 106292	25
541	A review on tribological performance of lubricants with nanoparticles additives. <b>2020</b> , 25, 586-591	24
540	Recent advancements in PV cooling and efficiency enhancement integrating phase change materials based systems [A comprehensive review. <b>2020</b> , 197, 163-198	225



539	Thermal analyses of minichannels and use of mathematical and numerical models. <b>2020</b> , 77, 497-537	26
538	Neutron irradiation sensitivity of thermal conductivity for Al <sub>2</sub> O <sub>3</sub> nanofluids. <b>2020</b> , 7, 015048	5
537	Application of MQL technique using TiO <sub>2</sub> nanoparticles compared to MQL simultaneous to the grinding wheel cleaning jet. <b>2020</b> , 106, 2205-2218	29
536	RETRACTED: Using of double distribution function LBM (DDF/LBM) and experimental rheological/thermal measurements of nanofluid for battery thermal management. <b>2020</b> , 148, 107796	6
535	Entropy optimized stretching flow based on non-Newtonian radiative nanoliquid under binary chemical reaction. <b>2020</b> , 188, 105274	22
534	Application of graphene oxide IoNanofluid as a superior heat transfer fluid in concentrated solar power plants. <b>2020</b> , 111, 104450	18
533	Electro-stabilized homogeneous dispersion of boron nitride nanotubes in wide-range of solvents achieved by surface polarity modulation through pyridine attachment. <b>2020</b> , 13, 344-352	3
532	Significance of non-uniform heat generation/absorption in hydromagnetic flow of nanofluid due to stretching/shrinking disk. <b>2020</b> , 553, 123970	19
531	Investigating the effect of using nanofluids on the performance of a double-effect absorption refrigeration cycle combined with a solar collector. <b>2020</b> , 234, 981-993	18
530	Dispersion Stability, Physical Properties, and Electrostatic Breakup of Surfactant-Loaded Aluminum/n-Decane Nanofluid Fuel: Nanoparticle Size Effect. <b>2020</b> , 34, 1082-1092	3
529	Entropy generation and economic analyses in a nanofluid filled L-shaped enclosure subjected to an oriented magnetic field. <b>2020</b> , 168, 114789	49
528	Thermo-economic performance analysis of Al <sub>2</sub> O <sub>3</sub> -water nanofluids [An experimental investigation. <b>2020</b> , 299, 112200	15
527	Battery warm-up methodologies at subzero temperatures for automotive applications: Recent advances and perspectives. <b>2020</b> , 77, 100806	98
526	Nanofluid figure-of-merits to assess thermal efficiency of a flat plate solar collector. <b>2020</b> , 204, 112292	18
525	Experimental and comparative theoretical study of thermal conductivity of MWCNTs-kapok seed oil-based nanofluid. <b>2020</b> , 110, 104402	9
524	Numerical investigation of direct absorption solar collectors (DASC), based on carbon-nanohorn nanofluids, for low temperature applications. <b>2020</b> , 195, 166-175	21
523	Applying artificial neural network and curve fitting method to predict the viscosity of SAE50/MWCNTs-TiO <sub>2</sub> hybrid nanolubricant. <b>2020</b> , 549, 123946	9
522	Thermal conductivity and heat capacity of water/Cellulose nanofluids: A molecular dynamics study. <b>2020</b> , 34, 2050248	3

521	On the evaluation of thermal conductivity of nanofluids using advanced intelligent models. <b>2020</b> , 118, 104825	14
520	Superior cooling performance of a single channel hybrid magnetofluidic cooling device. <b>2020</b> , 223, 113465	4
519	Experimental investigation of viscosity, enhanced thermal conductivity and zeta potential of a TiO <sub>2</sub> electrolyte based nanofluid. <b>2020</b> , 118, 104840	10
518	Entropy generation in concentric annuli of 400 kV gas-insulated transmission line. <b>2020</b> , 19, 100614	5
517	Dynamics of solar radiation and prescribed heat sources on bidirectional flow of magnetized Eyring-Powell nanofluid. <b>2020</b> , 21, 100689	24
516	Fast, flexible and low-cost multiphase blood analogue for biomedical and energy applications. <b>2020</b> , 61, 1	7
515	Vegetable oil-based nanofluid minimum quantity lubrication turning: Academic review and perspectives. <b>2020</b> , 59, 76-97	110
514	Advances in electrode and electrolyte improvements in vanadium redox flow batteries with a focus on the nanofluidic electrolyte approach. <b>2020</b> , 881, 1-49	16
513	A novel model to analyze Darcy Forchheimer nanofluid flow in a permeable medium with Entropy generation analysis. <b>2020</b> , 14, 916-930	10
512	Improved Thermophysical Properties and Energy Efficiency of Aqueous Ionic Liquid/MXene Nanofluid in a Hybrid PV/T Solar System. <b>2020</b> , 10,	46
511	Influence of Soret and Dufour on forced convection flow towards a moving thin needle considering Buongiorno's nanofluid model. <b>2020</b> , 59, 3897-3906	5
510	Experimental investigation of pressure drop and cooling performance of an automobile radiator using Al <sub>2</sub> O <sub>3</sub> -water + ethylene glycol nanofluid. <b>2020</b> , 56, 2923-2937	3
509	Convective MHD flow of hybrid-nanofluid within an elliptic porous enclosure. <b>2020</b> , 384, 126727	21
508	Photothermal spectroscopy: A promising tool for nanofluids. <b>2020</b> , 128, 190901	7
507	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. <b>2020</b> , 12, 9119	4
506	In situ reduction of graphitic oxide by amorphization of magnesium diboride for the superior thermo-optical property based nanofluid applications. <b>2020</b> , 18, 100354	
505	Two- and three-dimensional comparative study of heat transfer and pressure drop characteristics of nanofluids flow through a ventilated cubic cavity (part II: non-Newtonian nanofluids under the influence of a magnetic field). <b>2020</b> , 1	2
504	Preparation and dispersion stability of aqueous metal oxide nanofluids for potential heat transfer applications: a review of experimental studies. <b>2020</b> , 1	8

503	Investigation on the thermal properties, heat transfer and flow performance of a highly self-dispersion TiO <sub>2</sub> nanofluid in a multiport mini channel. <b>2020</b> , 117, 104783	15
502	Optical properties and stability of water-based nanofluids mixed with reduced graphene oxide decorated with silver and energy performance investigation in hybrid photovoltaic/thermal solar systems. <b>2020</b> , 44, 11487-11508	15
501	Role of Nanofluids in Drug Delivery and Biomedical Technology: Methods and Applications. <b>2020</b> , 13, 47-59	34
500	Comparing the effect of single and mixture surfactants on the improvement in stability and thermal conductivity of CuO nanofluid: an experimental study. <b>2020</b> , 146, 967	3
499	Shear flow behavior and dynamic viscosity of few-layer graphene nanofluids based on propylene glycol-water mixture. <b>2020</b> , 316, 113875	11
498	Effect of evaporation section setting on the thermal performance of a closed thermosyphon combined with fluidized bed heat transfer technology. <b>2020</b> , 373, 569-580	1
497	Numerical Simulation of Water Based Ferrofluid Flows along Moving Surfaces. <b>2020</b> , 8, 830	2
496	Analysis of Heat and Mass Transfer for Second-Order Slip Flow on a Thin Needle Using a Two-Phase Nanofluid Model. <b>2020</b> , 12, 1176	6
495	Thermal performance due to magnetohydrodynamics mixed convection flow in a triangular cavity with circular obstacle. <b>2020</b> , 31, 101702	15
494	Recent Advances in the Critical Heat Flux Amelioration of Pool Boiling Surfaces Using Metal Oxide Nanoparticle Deposition. <b>2020</b> , 13, 4026	13
493	MWCNT and COOH-MWCNT aqueous nanofluids: thermophysical and rheological characterization. <b>2020</b> , 42, 1	6
492	Enhancing the Thermal Performance of a Stearate Phase Change Material with Graphene Nanoplatelets and MgO Nanoparticles. <b>2020</b> , 12, 39108-39117	14
491	Fluid dynamic simulations of EG-W (ethylene glycol/Water) mixtures to predict nanofluid heat transfer coefficients. <b>2020</b> , 20, 101113	1
490	Stability theory of nano-fluid over an exponentially stretching cylindrical surface containing microorganisms. <b>2020</b> , 10, 17004	5
489	Heat transfer improvement by an Al <sub>2</sub> O <sub>3</sub> -water nanofluid coolant in printed-circuit heat exchangers of supercritical CO <sub>2</sub> Brayton cycle. <b>2020</b> , 20, 100694	13
488	Energy efficient and cost effective method for generation of in-situ silver nanofluids: Formation, morphology and thermal properties. <b>2020</b> , 31, 4031-4044	1
487	Mixed convective flow of an Oldroyd-B nanofluid impinging over an unsteady bidirectional stretching surface with the significances of double stratification and chemical reaction. <b>2020</b> , 2, 1	10
486	Secondary Breakup Characteristics and Mechanism of Single Electrified Al/N-Decane Nanofluid Fuel Droplet in Electrostatic Field. <b>2020</b> , 10, 5332	1

485	Parametric Study of Lennard-Jones Potentials to Predict Physical Behavior via Coarse-Grained Molecular Dynamics Simulations of Water and Ethylene Glycol Over Wide Temporal and Spatial Scales. <b>2020</b> , 2, 153-160	
484	Nonlinear Optimization of Turbine Conjugate Heat Transfer with Iterative Machine Learning and Training Sample Replacement. <b>2020</b> , 13, 4587	1
483	Dual solutions of nanomaterial flow comprising titanium alloy (TiAlV) suspended in Williamson fluid through a thin moving needle with nonlinear thermal radiation: stability scrutinization. <b>2020</b> , 10, 20933	4
482	Application of BP neural network based on genetic algorithm optimization in thermal conductivity of nanofluids. <b>2020</b> , 721, 012031	1
481	Thermal performance of nanofluids in heat transfer loops. <b>2020</b> , 981, 042029	1
480	A Review on Synthetic Ester Liquids for Transformer Applications. <b>2020</b> , 13, 6429	17
479	Experimental investigation of radiator heat transfer efficiency using Water + Ethylene Glycol based Al <sub>2</sub> O <sub>3</sub> , SiC nanofluids. <b>2020</b> , 954, 012031	0
478	Experimental and Theoretical Studies of Thermophysical Properties of MgO-Water Nanofluid. <b>2020</b> , 1008, 47-52	0
477	Heat transfer measurements of Polyalpha-Olefin- boron nitride nanofluids for thermal management and lubrication applications. <b>2020</b> , 22, 100776	5
476	Thermophysical analysis of three-dimensional magnetohydrodynamic flow of a tangent hyperbolic nanofluid. <b>2020</b> , 2, e12144	8
475	Efficiency and effectiveness enhancement of an intercooler of two-stage air compressor by low-cost Al <sub>2</sub> O <sub>3</sub> /water nanofluids. <b>2020</b> , 49, 2577-2594	3
474	Influence of polymer washing on thermal conductivity enhancement of Cu nanofluids. <b>2020</b> , 15, e2501	2
473	Eulerian CFD model of direct absorption solar collector with nanofluid. <b>2020</b> , 12, 033701	13
472	Numerical simulation of mixed convection of a nanofluid in a circular pipe with different numerical models. <b>2020</b> , 145, 2525	2
471	Experimental investigation of convective heat transfer and pressure drop of SiC/water nanofluid in a shell and tube heat exchanger. <b>2020</b> , 56, 2325-2331	4
470	The influence of surface roughness on the adhesive interactions and phase behavior of suspensions of calcite nanoparticles. <b>2020</b> , 12, 11165-11173	5
469	Analytical solution of free convection heat transfer of hybrid nanofluids over a vertical flat plate embedded in a porous medium. <b>2020</b> ,	0
468	Numerical simulation for bioconvection effects on MHD flow of Oldroyd-B nanofluids in a rotating frame stretching horizontally. <b>2020</b> , 178, 166-182	19


467	On the chemical potential of nanoparticle dispersion. <b>2020</b> , 384, 126485	5
466	Unsteady Three-Dimensional MHD Non-Axisymmetric Homann Stagnation Point Flow of a Hybrid Nanofluid with Stability Analysis. <b>2020</b> , 8, 784	31
465	Experimental analysis on refrigeration system using CNT, gold & HAUCL4 nano fluids. <b>2020</b> , 33, 360-366	3
464	Applications of hybrid nanofluids in different fields. <b>2020</b> , 215-254	14
463	Spectral quasi linearization simulation of radiative nanofluidic transport over a bended surface considering the effects of multiple convective conditions. <b>2020</b> , 84, 139-154	45
462	Differential transformed approach of unsteady chemically reactive nanofluid flow over a bidirectional stretched surface in presence of magnetic field. <b>2020</b> , 49, 3917-3942	22
461	Advanced fluids & a review of nanofluid transport and its applications. <b>2020</b> , 281-382	1
460	The Merkle-Chao-Bagbenle method for laminar boundary layer analysis. <b>2020</b> , 95-132	
459	Advanced development in upstream of petroleum industry using nanotechnology. <b>2020</b> , 28, 1483-1491	8
458	Effectiveness of multi position, electrostatic and nanofluid based minimum quantity lubrication: A brief review. <b>2020</b> , 26, 1099-1102	0
457	Combustion Characteristics of Suspended Hydrocarbon Fuel Droplets with Various Nanoenergetic Additives. <b>2020</b> , 1-26	4
456	Turbulent heat transfer and nanofluid flow in an annular cylinder with sudden reduction. <b>2020</b> , 141, 373-385	26
455	Numerical study on heat transfer and nanofluid flow in pipes fitted with different dimpled spiral center plate. <b>2020</b> , 2, 1	5
454	A brief study on effects of nano cutting fluids in hard turning of AISI 4340 steel. <b>2020</b> , 26, 3094-3099	5
453	Experimental investigation of two-phase liquid-vapor flows in additive manufactured heat exchanger. <b>2020</b> , 179, 115638	4
452	Semi-3D transient simulation of a nanofluid-base photovoltaic thermal system integrated with a thermoelectric generator. <b>2020</b> , 220, 113073	27
451	Convective transport in nanofluids: The stationary problem. <b>2020</b> , 489, 124151	3
450	Heat Transfer and Fluid Flow Investigations in PDMS Microchannel Heat Sinks Fabricated by Means of a Low-Cost 3D Printer. <b>2020</b> ,	2

449	Enhanced absorption of solar energy in a daylighting louver with Ni-water nanofluid. <b>2020</b> , 158, 119921	9
448	Growth, characterization and thermo-mechanical analysis of Al/Al <sub>2</sub> O <sub>3</sub> core/shell nanoparticles obtained under H <sub>2</sub> atmosphere. <b>2020</b> , 46, 20456-20462	1
447	Universal relation between the density and the viscosity of dispersions of nanoparticles and stabilized emulsions. <b>2020</b> , 12, 15081-15101	9
446	Preparation of Long Duration Stable CNT Nanofluid Using SDS. <b>2020</b> , 204, 11-22	11
445	Heat-transfer performance and pressure drop in a gas-solid circulating fluidized bed spiral-plate heat exchanger. <b>2020</b> , 171, 115091	6
444	Electrical and chemical stability of CuS nanofluids for conductivity of water soluble based nanocomposites. <b>2020</b> , 19, 100475	6
443	CO <sub>2</sub> capturing evaluation of single-step silica nanofluid through rheological investigation for nanofluid use in carbon utilization applications. <b>2020</b> , 304, 112765	20
442	Influence of particle size on the effective thermal conductivity of nanofluids: A critical review. <b>2020</b> , 264, 114684	68
441	Important features of expanding/contracting cylinder for Cross magneto-nanofluid flow. <b>2020</b> , 133, 109656	21
440	One-dimensional Sn(IV) hydroxide nanofluid toward nonlinear optical switching. <b>2020</b> , 7, 1150-1159	4
439	Thermophysical properties of water ethylene glycol (WEG) mixture-based Fe <sub>3</sub> O <sub>4</sub> nanofluids at low concentration and temperature. <b>2020</b> , 302, 112606	26
438	Performance evaluation of a refrigeration system using nanolubricant. <b>2020</b> , 10, 1667-1678	8
437	Thermal Radiation and MHD Effects in the Mixed Convection Flow of Fe <sub>3</sub> O <sub>4</sub> /Water Ferrofluid towards a Nonlinearly Moving Surface. <b>2020</b> , 8, 95	22
436	Carbon nanomaterials as friction modifiers in automotive engines: Recent progress and perspectives. <b>2020</b> , 310, 113200	19
435	Scrutiny of heat transfer and nanoparticle migration within a channel filled with nanofluid. <b>2020</b> , 49, 2770-2788	1
434	Synthesis and Enhancement of Thermal Conductivity of Surfactant Free MWCNTs-Jatropha Oil-based Nanofluid. <b>2020</b> , 736, 022076	1
433	Thermal and Hydraulic Performance of CuO/Water Nanofluids: A Review. <b>2020</b> , 11,	14
432	Graphene oxide/multi-walled carbon nanotube-therminol-66 hybrid nanofluids for low-to-medium temperature volumetric solar collectors. <b>2020</b> , 44, 7216-7228	11

431	Effect of magnetite nanoparticles on couple stress fluid between two parallel squeezing and expanding surfaces. <b>2020</b> , 2, 1	2
430	On the performance of nanofluids in APR 1400 PLUS7 assembly: Neutronics. <b>2020</b> , 144, 107508	11
429	Machinability of Ti6Al4V Superalloy: Performance of Dry Cutting and Nanofluid MQL (MWCNT-Added Rice Bran Oil). <b>2020</b> , 45, 5673-5695	4
428	An experimental investigation of eco-friendly treated GNP heat transfer growth: circular and square conduit comparison. <b>2021</b> , 145, 139-151	4
427	An artificial neural network approach for the prediction of dynamic viscosity of MXene-palm oil nanofluid using experimental data. <b>2021</b> , 144, 1175-1186	20
426	Thermal-electrical-hydraulic properties of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> hybrid nanofluids for advanced PEM fuel cell thermal management. <b>2021</b> , 143, 1555-1567	12
425	Rheological characteristics of CeO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and their hybrid mixture in ethylene glycol base fluid in the wide range of temperature and concentration. <b>2021</b> , 143, 1003-1019	7
424	Electrical and thermal performances of photovoltaic/thermal systems with magnetic nanofluids: A review. <b>2021</b> , 54, 181-200	13
423	Heat transfer analysis of Cu-Al <sub>2</sub> O <sub>3</sub> hybrid nanofluid with heat flux and viscous dissipation. <b>2021</b> , 143, 2367-2377	16
422	The effects of oil/MWCNT nanofluids and geometries on the solid oxide fuel cell cooling systems: a CFD study. <b>2021</b> , 144, 245-256	4
421	Influence of Wax Lubrication on Cutting Performance of Single-Crystal Silicon in Ultraprecision Microgrooving. <b>2021</b> , 8, 611-624	1
420	Rod bundle thermal-hydraulics experiment with water and water-Al <sub>2</sub> O <sub>3</sub> nanofluid for small modular reactor. <b>2021</b> , 150, 107870	12
419	Rheological analysis and EOR potential of surfactant treated single-step silica nanofluid at high temperature and salinity. <b>2021</b> , 196, 107704	30
418	Colloidal stability study of Fe <sub>3</sub> O <sub>4</sub> -based nanofluids in water and ethylene glycol. <b>2021</b> , 146, 509-520	3
417	Enhancement of cooling rate using nanofluid and hybrid nanofluid in cooling hot titanium plate. <b>2021</b> , 45, 3891-3897	2
416	A nanofluids and nanocoatings used for solar energy harvesting and heat transfer applications: A retrospective review analysis. <b>2021</b> , 37, 823-834	7
415	Assessment of a heat pipe solar collector with nanofluids. <b>2021</b> , 28, 5316-5331	3
414	Comprehensive review of the recent advances in PV/T system with loop-pipe configuration and nanofluid. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 135, 110254	16.2 20

413	Performance assessment of a shell and helically coiled tube heat exchanger with variable orientations utilizing different nanofluids. <b>2021</b> , 182, 116013	29
412	Evaluation of the nanofluid-assisted desalination through solar stills in the last decade. <b>2021</b> , 277, 111415	57
411	Experimental study on thermal conductivity of mono and hybrid Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanofluids for concentrating solar collectors. <b>2021</b> , 45, 4370-4384	11
410	MHD peristaltic flow of non-Newtonian power-law nanofluid through a non-Darcy porous medium inside a non-uniform inclined channel. <b>2021</b> , 91, 1067-1077	21
409	Review of nanofluids as coolant in metal cutting operations. <b>2021</b> , 37, 2387-2390	1
408	Laminar forced convection heat transfer of nanofluids inside non-circular ducts: A review. <b>2021</b> , 378, 808-830	14
407	The effect of particle size on removal of SO <sub>2</sub> from flue gas by MgO absorbents. <b>2021</b> , 377, 506-513	2
406	Energy and exergy analysis for stationary solar collectors using nanofluids: A review. <b>2021</b> , 45, 3643-3670	10
405	Rheological and tribological characterization of novel modified graphene/oil-based nanofluids using force microscopy. <b>2021</b> , 84, 814-827	0
404	Laser fabrication of Cu nanoparticles based nanofluid with enhanced thermal conductivity: Experimental and molecular dynamics studies. <b>2021</b> , 323, 114975	8
403	Modeling and numerical analysis of nanoliquid (titanium oxide, graphene oxide) flow viscous fluid with second order velocity slip and entropy generation. <b>2021</b> , 31, 17-25	15
402	A review on the application of the nanofluids. <b>2021</b> , 50, 1113-1155	6
401	Studies on chip morphology and modes of tool wear during machining of Ti-6Al-4V using uncoated carbide tool: application of multi-walled carbon nanotubes added rice bran oil as nanocutting fluid. <b>2021</b> , 25, 237-287	4
400	Improvement of CO <sub>2</sub> absorption by Fe <sub>3</sub> O <sub>4</sub> /water nanofluid falling liquid film in presence of the magnetic field. <b>2021</b> , 99, 519-529	5
399	Effects of various configurations of an inserted corrugated conductive cylinder on MHD natural convection in a hybrid nanofluid-filled square domain. <b>2021</b> , 143, 1399-1411	12
398	CFD simulation of nanofluid heat transfer considering the aggregation of nanoparticles in population balance model. <b>2021</b> , 143, 671-684	8
397	Nanotechnology for smart grids and superconducting cables. <b>2021</b> , 369-403	
396	Effect of Aspect Ratio on Overall Thermal Performance of Forced Convective Heat Transfer Utilizing Turbulent Nanofluid Flow. <b>2021</b> , 13,	



395	A molecular dynamics study of the effect of nanoparticles coating on thermal conductivity of nanofluids. <b>2021</b> , 16, 221-226	1
394	Covalent Functionalization of Graphene for the Enhancement of Thermophysical Properties in Nanofluids. <b>2021</b> , 44, 811-818	3
393	MQL Machining with nano fluid: a review. <b>2021</b> , 8, 13	3
392	Potential of CuS and CuO nanoparticles for friction reduction in piston ring inner contact. 1-14	0
391	Experimental determination for viscosity of fly ash nanofluid and fly ash-Cu hybrid nanofluid: Prediction and optimization using artificial intelligent techniques. 1-20	6
390	Effect of Nanoparticle and Inclination Angle at Thermal Efficiency in Heatpipes. <b>2021</b> , 1271-1288	
389	 <b>2021</b> , 56, 114-121	
388	Thermal performance analysis of a 1B TEMA E shell and coil heat exchanger operating with SWCNT-water nanofluid with varied nanoparticle concentration. <b>2021</b> , 43, 1	0
387	Heat transfer and pressure drop performance of Nanofluid: A state-of- the-art review. <b>2021</b> , 9, 100065	45
386	Performance Enhancement of Air Conditioning (Split Unit) Using CuO/Oil Nano-Lubricant. 1021, 97-106	0
385	Chemical characterization of Wood and Bark biomass of the invasive species of Tree-of-heaven ( <i>Ailanthus altissima</i> (Mill.) Swingle), focusing on its chemical composition horizontal variability assessment. 1-9	2
384	Numerical Simulation of Radiative MHD Sutterby Nanofluid Flow Through Porous Medium in the Presence of Hall Currents and Electroosmosis. <b>2021</b> , 7, 1	3
383	Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. <b>2021</b> , 6, 65	3
382	Research Progress of Interface Conditions and Tribological Reactions: A Review. <b>2021</b> , 94, 105-121	8
381	Impact of periodic magnetic source on natural convection and entropy generation of ferrofluids in a baffled cavity. <b>2021</b> , ahead-of-print,	2
380	Blood Flow Mediated Hybrid Nanoparticles in Human Arterial System: Recent Research, Development and Applications. <b>2021</b> , 10, 1-30	2
379	Thermal Conductivity Enhancement of Silica Nanofluids for Ultrafast Cooling Applications: Statistical Modeling and Economic Analysis. <b>2021</b> , 42, 1	4
378	Experimental study on heat transfer of an engine radiator with TiO <sub>2</sub> /EG-water nano-coolant. <b>2021</b> , 3, 1	1

377	Integrated photovoltaic thermal systems, their applications and recent advance on performance improvement: a review. <b>2021</b> , 78, 838-864	3
376	Back propagation modeling of shear stress and viscosity of aqueous Ionic-MXene nanofluids. <b>2021</b> , 145, 2129-2149	15
375	Convective heat transport in yield stress nanofluids in a differentially heated square enclosure. 1-24	1
374	CONCENTRATION CONVECTION OF COLLOIDAL SUSPENSION IN A SPHERICAL CAVITY. <b>2021</b> , 62, 300-307	
373	Electro-magneto-hydrodynamic flow of couple stress nanofluids in micro-peristaltic channel with slip and convective conditions. <b>2021</b> , 42, 593-606	8
372	Enhanced photocatalytic decomposition of NO on portland cement concrete pavement using nano-TiO <sub>2</sub> suspension. <b>2021</b> , 275, 122135	8
371	Thermal Conductivity of Nanofluids: A Review on Prediction Models, Controversies and Challenges. <b>2021</b> , 11, 2525	12
370	Entropy analysis of nanofluid magnetohydrodynamic convection flow past an inclined surface: A numerical review. <b>2021</b> , 50, 5996-6021	1
369	The role of nanofluids on enhancing the solar energy performance with focusing on the mining industry. <b>2021</b> , 45, 14414-14435	1
368	Rheological behavior of stabilized diamond-graphene nanoplatelets hybrid nanosuspensions in mineral oil. <b>2021</b> , 328, 115509	4
367	Photothermal and Heat-Transfer Properties of Aqueous Detonation Nanodiamonds by Photothermal Microscopy and Transient Spectroscopy. <b>2021</b> , 125, 7808-7823	3
366	Hybrid Nanofluid Flow over a Permeable Shrinking Sheet Embedded in a Porous Medium with Radiation and Slip Impacts. <b>2021</b> , 9, 878	14
365	Recent progress on flat plate solar collectors and photovoltaic systems in the presence of nanofluid: A review. <b>2021</b> , 293, 126119	172
364	Numerical Simulation of the Thermally Developed Pulsatile Flow of a Hybrid Nanofluid in a Constricted Channel. <b>2021</b> , 14, 2410	3
363	A review on the application of hybrid nanofluids for parabolic trough collector: Recent progress and outlook. <b>2021</b> , 292, 126031	47
362	Viscous behaviour of o-xylene/fullerene C <sub>60</sub> solutions. <b>2021</b> , 328, 115416	2
361	Unsteady bioconvective squeezing flow with higher-order chemical reaction and second-order slip effects. <b>2021</b> , 50, 5538-5562	23
360	Environmental impacts of nanofluids: A review. <b>2021</b> , 763, 144202	34

359	A Critical Review on the Development of Ionic Liquids-Based Nanofluids as Heat Transfer Fluids for Solar Thermal Energy. <b>2021</b> , 9, 858	5
358	An analysis of household refrigerator using Polyester /Aluminum oxide Nano lubrication. <b>2021</b> ,	1
357	Thermophysical properties of graphene-based nanofluids. <b>2021</b> , 10, 100073	26
356	Viscous Dissipation and Chemical Reaction Effects on Tangent Hyperbolic Nanofluid Flow Past a Stretching Wedge with Convective Heating and Navier–Stokes Slip Conditions. 1	3
355	Performance enhancement of modified double slope passive solar still using different water-based nanofluids. <b>2021</b> , 1146, 012021	1
354	Effect of nanoparticle on rheological properties of surfactant-based nanofluid for effective carbon utilization: capturing and storage prospects. <b>2021</b> , 28, 53578-53593	1
353	Investigating dispersion regimes for effective mass transfer in single-step silica nanofluids for improved CO <sub>2</sub> utilization. <b>2021</b> , 230, 1391	0
352	Intensification of heat exchanger performance utilizing nanofluids. <b>2021</b> , 10, 100071	26
351	Solutions to obstacles in the commercialization of room-temperature magnetic refrigeration. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 143, 110933	16.2 6
350	Establishment of Innovative Approaches of Nanofluids. <b>2021</b> , 997-1002	1
349	A Review on the Use of Hybrid Nanofluid in a Solar Flat Plate and Parabolic Trough Collectors and Its Enhanced Collector Thermal Efficiency. <b>2021</b> , 10, 147-171	2
348	Effectiveness study in shell and tube heat exchanger at various concentrations of CuO nanofluid for parallel flow. 095440622110007	2
347	Simulations with a Thermodynamically Consistent Model for Convective Transport in Nanofluids. <b>2021</b> ,	2
346	MXene Based Palm Oil Methyl Ester as an Effective Heat Transfer Fluid. 68, 17-34	3
345	Implementation of DRBEM for the determination of the heat flux in an inverse problem. <b>2021</b> , 70, 397-425	
344	Investigation on the thermal performance of a sodium sulfate CFB evaporator. <b>2021</b> , 506, 115004	1
343	A Study of the Effects of Graphene Nanosheets on the Thermal Conductivity of Nanofluid (Argon-Graphene) Using Reverse Nonequilibrium Molecular Dynamics Method. <b>2021</b> , 42, 1	5
342	Electrokinetic energy conversion of electro-magneto-hydro-dynamic nanofluids through a microannulus under the time-periodic excitation. <b>2021</b> , 42, 1029-1046	2

341	Facile Synthesis of Copper(I) Oxide Nanochains and the Photo-Thermal Conversion Performance of Its Nanofluids. <b>2021</b> , 11, 749		54
340	Combustion behavior, performance and emission characteristics of diesel engine fuelled with biodiesel containing cerium oxide nanoparticles: A review. <b>2021</b> , 218, 106840		59
339	An updated review on working fluids, operation mechanisms, and applications of pulsating heat pipes. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 144, 110995	16.2	10
338	Investigation of super-critical water-based nanofluid with different nanoparticles (shapes and types) used in the rectangular corrugated tube of reactors. <b>2021</b> ,		7
337	Breakdown Strength and Stability of Palm Oil Toughened with Natural Fibres as Liquid Insulation. <b>2021</b> ,		1
336	Review of component wise performance enhancement techniques for simple solar water heater. 1-17		3
335	Numerical study of the effects of geometric parameters and nanofluid properties on heat transfer and pressure drop in helical tubes. <b>2021</b> , 3, 1		1
334	Nanofluids for the Next Generation Thermal Management of Electronics: A Review. <b>2021</b> , 13, 1362		7
333	Nanodiamond Colloids heat transfer behavior in electronics thermal management An experimental study. 1-17		4
332	A comparative study of clay enriched polymer solutions for effective carbon storage and utilization (CSU) in saline reservoirs. <b>2021</b> , 299, 1507-1519		0
331	Marangoni hybrid nanofluid flow over a permeable infinite disk embedded in a porous medium. <b>2021</b> , 126, 105421		16
330	Stagnation point MHD slip-flow of viscoelastic nanomaterial over a stretched inclined cylindrical surface in a porous medium with dual stratification. <b>2021</b> , 126, 105479		3
329	A critical review on thermal conductivity enhancement of graphene-based nanofluids. <b>2021</b> , 294, 102452		21
328	A review on conventional and advanced minimum quantity lubrication approaches on performance measures of grinding process. 1		19
327	Significance of Magnetic Nano Fluids in Pulsating Heat Pipes A Review. 1-30		
326	Mathematical Modeling and numerical simulation for nanofluid flow with entropy optimization. <b>2021</b> , 26, 101198		12
325	Upshot of melting heat transfer in a Von Karman rotating flow of gold-silver/engine oil hybrid nanofluid with Cattaneo-Christov heat flux. <b>2021</b> , 26, 101149		24
324	Deterministic/Probabilistic Model as Strategy to Study Nanofluid Transport in Porous Media. <b>2021</b> , 139, 357		

323	Recent advances in using nanofluids in renewable energy systems and the environmental implications of their uptake. <b>2021</b> , 86, 106069	56
322	A novel and extremely stable nanofluid based on iron oxide nanoparticles: Experimental investigations on the thermal performance. <b>2021</b> , 26, 101085	2
321	A review of the recent progress on thermal conductivity of nanofluid. <b>2021</b> , 338, 116929	18
320	On the nonmonotonous behavior of the thermal properties of fullerene C60 / o-xylene solutions. <b>2021</b> , 338, 116629	0
319	A decoupled wavelet approach for multiple physical flow fields of binary nanofluid in double-diffusive convection. <b>2021</b> , 404, 126232	0
318	Implementation of Computational Fluid Dynamics and Response Surface Methodology to Study Nanofluid Heat Transfer.	1
317	Effects of roughness and radius of nanoparticles on the condensation of nanofluid structures with molecular dynamics simulation: Statistical approach. <b>2021</b> , 128, 346-346	2
316	Dissection of entropy production for the free convection of NEPCMs-filled porous wavy enclosure subject to volumetric heat source/sink. <b>2021</b> ,	26
315	Efficiency enhancement of a solar dish collector operating with a novel soybean oil-based-MXene nanofluid and different cavity receivers. <b>2021</b> , 317, 128430	6
314	Thermal performance evaluation for alumina coated MWCNTs composite nanofluid in annular passage of various eccentricities. <b>2021</b> , 391, 114-132	3
313	Effects of ultrasonication and surfactant on the thermal and electrical conductivity of water Solar glycol mixture based Al <sub>2</sub> O <sub>3</sub> nanofluids for solar-thermal applications. <b>2021</b> , 47, 101371	5
312	Mathematical model of bent-flattened sintered-grooved heat pipe with concept of receding-and-excessing fluid. <b>2021</b> , 27, 101307	2
311	Progress, challenges and future prospects of plasmonic nanofluid based direct absorption solar collectors A state-of-the-art review. <b>2021</b> , 227, 365-425	11
310	Shape dependent heat transfer and nonlinear optical limiting characteristics of water stable ZnO nanofluid. <b>2021</b> , 26, 101345	0
309	Performance improvement of a photovoltaic-thermal system using a wavy-strip insert with and without nanofluid. <b>2021</b> , 234, 121190	10
308	Spectral quasi linearization simulation on the radiative nanofluid spraying over a permeable inclined spinning disk considering the existence of heat source/sink. <b>2021</b> , 411, 126547	13
307	Immense impact from small particles: Review on stability and thermophysical properties of nanofluids. <b>2021</b> , 48, 101635	5
306	Nucleate pool boiling enhancement with the application of a hybrid technique involving the addition of alumina nanoparticles to stirred water above heating surface. <b>2021</b> , 170, 107134	0

305	Hydromagnetic natural convection in a wavy-walled enclosure equipped with hybrid nanofluid and heat generating cylinder. <b>2021</b> , 60, 5245-5264	6
304	Spectral quasi linearization simulation on the hydrothermal behavior of hybrid nanofluid spraying on an inclined spinning disk. <b>2021</b> , 4, 100094	17
303	Stability, surface tension, and thermal conductivity of Al <sub>2</sub> O <sub>3</sub> /water nanofluids according to different types of alcohol and their proportion. <b>2021</b> , 28, 101385	7
302	The use of nanofluids in thermosyphon heat pipe: A comprehensive review. <b>2021</b> , 394, 250-269	16
301	Experimental and artificial neural network based study on the heat transfer and flow performance of ZnO-EG/water nanofluid in a mini-channel with serrated fins. <b>2021</b> , 170, 107149	6
300	Environmental and industrialization challenges of nanofluids. <b>2022</b> , 467-481	1
299	Effect of nanofluids in solubility enhancement. <b>2022</b> , 115-132	
298	Application of nanofluids in drug delivery and disease treatment. <b>2022</b> , 449-465	1
297	KellerBox simulation for nonzero and zero mass fluxes of nanofluid flow impinging over a bi-directional stretching sheet: An unsteady mathematical model. <b>2021</b> , 32, 2150052	5
296	Computational Simulation of Nanoparticle Distributions in Metal Matrix Composite Casting Processes. <b>2021</b> , 171-179	0
295	Experimental analysis of the efficacy of vegetable oil-based nanolubricants for improving journal-bearing performance. <b>2021</b> , 235, 1974-1991	1
294	Effect of base fluids on thermo-physical properties of SiO <sub>2</sub> nanofluids and development of new correlations.	3
293	Magnetic PDMS Microparticles for Biomedical and Energy Applications. <b>2019</b> , 578-584	1
292	Perspective of Nanomaterials in the Performance of Solar Cells. <b>2020</b> , 25-54	3
291	Rheological Behaviour of Hybrid Nanofluids: A Review. <b>2020</b> , 77-94	2
290	Analysis of a single-phase natural circulation loop with hybrid-nanofluid. <b>2020</b> , 112, 104498	29
289	Heat transfer analysis of CuO-water enclosed in a partially heated rhombus with heated square obstacle. <b>2018</b> , 118, 773-784	65
288	Light-induced latent heat reduction of silver nanofluids: A molecular dynamics simulation. <b>2020</b> , 162, 120343	4

287	Development on evacuated tube solar collectors: A review of the last decade results of using nanofluids. <b>2020</b> , 211, 265-282	40
286	Review on natural ester and nanofluids as an environmental friendly alternative to transformer mineral oil. <b>2020</b> , 3, 33-43	18
285	Enhancement of thermal conductivity of silver nanofluid synthesized by a one-step method with the effect of polyvinylpyrrolidone on thermal behavior. <b>2013</b> , 102, 231907	42
284	A review of the state-of-the-art nanofluid spray and jet impingement cooling. <b>2020</b> , 32, 121301	13
283	Impacts of different shapes of nanoparticles on SiO <sub>2</sub> nanofluid flow and heat transfer in a liquid film over a stretching sheet. <b>2020</b> , 95, 115217	4
282	Double-diffusive convection of solid particles in a porous X-shaped cavity filled with a nanofluid. <b>2021</b> , 96, 015301	3
281	Brownian motion and thermophoresis effects on unsteady stagnation point flow of Eyring-Powell nanofluid: a Galerkin approach. <b>2020</b> , 72, 125005	16
280	Effect of Spreading Time on Contact Angle of Nanofluid on the Surface of Stainless Steel AISI 316 and Zircalloy 4. <b>2017</b> , 196, 012028	2
279	Magnetohydrodynamic Natural Convection Heat Transfer of Hybrid Nanofluid in a Square Enclosure in the Presence of a Wavy Circular Conductive Cylinder. <b>2020</b> , 12,	58
278	Boundary Layer Flow and Heat Transfer past a Permeable Shrinking Sheet in a Nanofluid with Radiation Effect. <b>2012</b> , 4, 340354	6
277	Water-Based Fe <sub>2</sub> O <sub>3</sub> Nanofluid Characterization: Thermal Conductivity and Viscosity Measurements and Correlation. <b>2012</b> , 4, 674947	45
276	Using Neural Network for Determination of Viscosity in Water-TiO <sub>2</sub> Nanofluid. <b>2012</b> , 4, 742680	34
275	Heat Transfer in Nanofluids 2012. <b>2012</b> , 4, 972973	8
274	Properties of Nanofluid. <b>2015</b> , 1-44	1
273	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (Al <sub>2</sub> O <sub>3</sub> /EG) Nanofluids. <b>2015</b> , 128, 240-242	14
272	Synthesis of Copper Nanofluids Using Ascorbic Acid Reduction Method Via One Step Solution Phase Approach. <b>2012</b> , 9, 104416	3
271	HEAT TRANSFER CHARACTERISTICS OF PROPYLENE GLYCOL/WATER BASED MAGNESIUM OXIDE NANOFLUID FLOWING THROUGH STRAIGHT TUBES AND HELICAL COILS. 1737-1755	3
270	Synthesis and Characterization of Super Paramagnetic Iron Oxide Nanoparticles. <b>2020</b> , 10, 123-126	1

269	Viscosity of nanofluids-A Review. <b>2020</b> , 7,	5
268	Bio-Based Oil Drilling Fluid Improvements through Carbon- Based Nanoparticle Additives.	1
267	Thermal conductivity and dynamic viscosity of mono and hybrid organic- and synthetic-based nanofluids: A critical review. <b>2021</b> , 10, 1624-1661	2
266	Nanostructured Materials and Their Processing Techniques. <b>2021</b> , 269-298	
265	Emerging Trends on the Implementation of Nanomaterials for Improving the Performance of Photovoltaic Thermal Systems: Energetic, Exergetic, Environmental, and Economic Perspectives. <b>2021</b> , 9, 2100619	2
264	Nanofluids: preparation, stability, properties, and thermal performance in terms of thermo-hydraulic, thermodynamics and thermo-economic analysis. 1	0
263	Thermophysical Properties of Nanofluids. <b>2021</b> , 17, 694-727	
262	The effect of nanoparticles composition ratio on dynamic viscosity of Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> -SiO <sub>2</sub> nanofluids. <b>2021</b> ,	0
261	A lattice Boltzmann method for single- and two-phase models of nanofluids: Newtonian and non-Newtonian nanofluids. <b>2021</b> , 33, 102008	9
260	Synthesis of Copper Nanofluids Using Ascorbic Acid Reduction Method Via One Step Solution Phase Approach. <b>2012</b> , 136-153	
259	An Experimental Study on the Convection Heat Transfer of Al-Mg/water Micro Fluid in a Circular Tube with Swirl. <b>2012</b> , 36, 869-875	
258	An Experimental Study on the Convection heat Transfer of Al-Mg/water Micro Fluid in a Circular Tube with Swirl. <b>2012</b> , 10, 16-20	
257	A Review on Nano Applications: Fluids and Heat Transfer. <b>2013</b> , 17, 3-12	1
256	Velocity and temperature profiles of Al/water micro fluid in a circular tube with swirl. <b>2013</b> , 37, 677-684	
255	Molecular Dynamics Simulation of Heat Transfer during Quenching in CNT Nanofluids. <b>2015</b> , 3, 20130107	
254	Diffusion of Nanoparticles in Gases and Liquids. <b>2015</b> , 1-21	
253	Dynamic Viscosity of Aluminum Oxide-Ethylene Glycol (AlO <sub>2</sub> EG) Nanofluids. <b>2015</b> , 128, 239-242	0
252	Characteristics of Nanofluids over a Non-Linearly Stretched Sheet under the Influence of Thermal Radiation and Magnetic Field. <b>2016</b> , 06, 456-471	



251 Electrical Discharge Machining (EDM): Nanoparticle Generation. **2016**, 432-442

250 Effect of CuO Nanoparticles on Rheological Behavior of ISO VG46, Jatropha Oil, and Their Blend. **2019**, 47, 20170229

249 Introduction. **2019**, 1-18

248 The Joule-Thomson Effect for Refrigerants with Dopants of the Fullerenes and Carbon Nanotubes. **2018**, 54, 38-44

247 ~~Effect of CuO Nanoparticles on Rheological Behavior of ISO VG46, Jatropha Oil, and Their Blend.~~ **2018**, 54, 90-96

246 Overview of Nanofluids to Ionanofluids: Applications and Challenges. **2019**, 199-227

245 Is Borulu Göl Kolektörlerinde Nano Zelti ile Performans İyileştirilmesi.

244 USE OF NANOFLUIDS BASED ON CARBON NANOPARTICLES TO DISPLACE OIL FROM THE POROUS MEDIUM MODEL. **2020**, 6, 141-157

243 Thermal conductivity enhancement for pure and oxide metal nanofluids. **2020**,

242 MAINTAINING STABLE NANODISPERSED CERIUM OXIDE FOR HEAT TRANSFER PROCESSES. **2020**, 36-42

241 Slip Effects on Fe<sub>3</sub>O<sub>4</sub>-Nanoparticles in a Nanofluid Past a Nonlinear Stretching Surface. **2021**, 366-378

240 Molecular simulation study for adsorption and thermal energy storage analysis of refrigerants (R170, R161, R152a, and R143a) mixed with UIO-67 nanoparticles. **2020**, 34, 2050334

239 Streaming potential and electrokinetic energy conversion of nanofluids in a parallel plate microchannel under the time-periodic excitation. **2021**,

238 Effect of shape of nanoparticles on mixed convection nanofluid flow in a porous medium with variable permeability: Analysis of the second law of thermodynamics. **2021**, 95, 1

237 The Use of Nanoparticles to Displace Oil from a Porous Medium. **2020**, 1683, 022082

236 Göl Kolektörlerinde Nanoakışkanların Kullanımına Etkileri.

235 An Analytic Solution for Electrical Magneto-Hydrodynamics Darcy-Forchheimer Three Dimensional Non-Newtonian Nanofluid Flow with Convective Boundary Conditions. **2020**, 9, 257-268

234 An overview on the use of nanotechnology in the renewable energy field. **2020**, 7, 143-148

- 233 Molecular dynamics simulation of evaporation of R32 on the solid surface. **2021**, 35, 2150133 0
- 232 Progress and challenges on the thermal management of electrochemical energy conversion and storage technologies: Fuel cells, electrolysers, and supercapacitors. **2022**, 88, 100966 10
- 231 Finish Hard Turning: A Review of Minimum Quantity Lubrication Using Paraffin-Based Nanofluids. **2020**, 531-539
- 230 Entropy Generation for a Mixed Convection Nanofluid Flow in an Inclined Channel Filled with Porous Medium with Thermal Radiation. **2020**, 171-190
- 229 Metal Oxide Nanocomposites and its Thermal Property Analysis. **2020**, 207-264
- 228 Recent advances on the thermal properties and applications of nanofluids: From nanomedicine to renewable energies. **2021**, 201, 117725 6
- 227 Application of CuO Nanoparticles as Biodegradable Lubricant Additive for Domestic Refrigerator Compressors: An Experimental Investigation. **2021**, 619-627
- 226 Thermocapillary waves formation at the interface of hydrocarbons and graphene-like nanofluids. **2020**, 1677, 012145
- 225 Impact of Partial Slip and Heat Source on MHD Mixed Convection Flow of Nanofluid in a Double Lid-Driven Cavity Containing Insulated Obstacle. **2020**, 9, 230-241 1
- 224 Finite element method in thermal characterization and streamline flow analysis of electromagnetic silver-magnesium oxide nanofluid inside grooved enclosure. **2022**, 130, 105795 9
- 223 Introduction to chemical enhanced oil recovery. **2022**, 1-32 3
- 222 A comparative study on the tribological behavior of mono&proportional hybrid nanofluids for sustainable turning of AISI 420 hardened steel with cermet tools. **2022**, 73, 695-714 3
- 221 Numerical Analysis of Nanofluid Thermal Flows through a Model Heat Exchanger:. **2021**, 67, 65-71 2
- 220 Thermal Radiation and Magnetohydrodynamics Effect on Unsteady Squeezing Non-Newtonian Nanofluids with Heat and Mass Transfer. **2021**, 10, 388-407
- 219 Thermal performance of water driven flow of nanoparticle shape due to double sided forced convection enclosed in a porous corrugated duct. **2021**, 347, 118046 2
- 218 Hall and ion-slip effects on nanofluid transport from a vertical surface: Buongiorno's model. e202000174 0
- 217 Recent advances on improved optical, thermal, and radiative characteristics of plasmonic nanofluids: Academic insights and perspectives. **2021**, 236, 111504 19
- 216 Effect of thermal radiation and MHD on hybrid Ag@TiO<sub>2</sub>/H<sub>2</sub>O nanofluid past a permeable porous medium with heat generation. **2021**, 101681 1

215	Multiple solutions for nanofluids flow and heat transfer in porous medium with velocity slip and temperature jump. <b>2022</b> , 131, 105831	1
214	Influence of elastic instability and elastic turbulence on mixed convection of viscoelastic fluids in a lid-driven cavity. <b>2022</b> , 186, 122469	4
213	Improving performance of flat plate solar collector using nanofluid water/zinc oxide. <b>2021</b> , 28, 3391-3403	1
212	The underlying mechanisms of coolant contribution in the machining process. <b>2022</b> , 37-66	
211	Recent Developments on the Thermal Properties, Stability and Applications of Nanofluids in Machining, Solar Energy and Biomedicine. <b>2022</b> , 12, 1115	3
210	The thin film flow of Al <sub>2</sub> O <sub>3</sub> nanofluid particle over an unsteady stretching surface. <b>2022</b> , 29, 101695	4
209	Effects of Soret and Dufour numbers on MHD thermosolutal convection of a nanofluid in a finned cavity including rotating circular cylinder and cross shapes. <b>2022</b> , 130, 105819	3
208	Rheological behavior of hybrid nanofluids. <b>2022</b> , 111-129	
207	Numerical Simulation of Heat Transfer Development of Nanofluids in a Thin Film over a Stretching Surface. <b>2022</b> , 52, 1	
206	Simulation of time-dependent radiative heat motion over a stretching/shrinking sheet of hybrid Nanofluid: Stability analysis for dual solutions. 239779142110690	0
205	Process intensification in gas-liquid mass transfer by nanofluids: Mechanism and current status. <b>2022</b> , 346, 118268	1
204	Performance Analysis of nano-refrigerants used in Vapor Compression Refrigeration system using MATLAB-Simulink. 095440622110698	0
203	Effect of contamination from direct sonication on characterization of nanofluid stability. <b>2022</b> , 399, 117157	0
202	Laboratory and Statistical Evaluations of Rheological Behaviour of MWCNT-Al <sub>2</sub> O <sub>3</sub> (20:80)/Oil SAE50 Non-Newtonian Nano-lubricants. <b>2022</b> , 641, 128503	1
201	Phase change materials based on nanoparticles for enhancing the performance of solar photovoltaic panels: A review. <b>2022</b> , 48, 103937	4
200	Effects of Knudsen numbers on natural convection patterns of nanofluids with a sub-continuous lattice Boltzmann model. <b>2022</b> , 187, 122541	0
199	Thermophoresis particle deposition of CoFe <sub>2</sub> O <sub>4</sub> -TiO <sub>2</sub> hybrid nanoparticles on micropolar flow through a moving flat plate with viscous dissipation effects. <b>2022</b> , ahead-of-print,	0
198	Nanofluids: Key parameters to enhance thermal conductivity and its applications. <b>2022</b> , 207, 118202	12

197	A review on recent advancements of the usage of nano fluid in hybrid photovoltaic/thermal (PV/T) solar systems. <b>2022</b> , 188, 114-114	4
196	Optimization of the Adsorption/Desorption Contribution from Metal-Organic-Heat-Carrier Nanoparticles in Waste Heat Recovery Applications: R245fa/MIL101 in Organic Rankine Cycles. <b>2022</b> , 15, 1138	0
195	Hybrid nanofluid flow towards an elastic surface with tantalum and nickel nanoparticles, under the influence of an induced magnetic field. <b>2021</b> , 1	16
194	Experimental Investigation on Shell and Tube Exchanger for the Rate of Heat Transfer by Using Ethylene Glycol and Propylene Glycol Fluids. <b>2022</b> , 429-440	
193	Experimental study on ultrasonication, thermal conductivity and dynamic viscosity of Therminol 55-Al <sub>2</sub> O <sub>3</sub> (1.0wt%)/GNP(0.075wt%) hybrid nanofluid.	
192	Experimental Study on Flow Boiling Heat Transfer Characteristics of Microencapsulated Phase Change Material-Fluoride Suspension.	
191	Mixed Insulating Liquids with Mineral Oil for High Voltage Transformer Applications: A Review. <b>2022</b> , 1-1	1
190	Numerical Investigation of Microchannel Cooling Using Nanocomposites. 1	
189	A Comprehensive Review on Efficiency Enhancement of Solar Collectors Using Hybrid Nanofluids. <b>2022</b> , 15, 1391	1
188	Impact of Non-Uniform Periodic Magnetic Field on Unsteady Natural Convection Flow of Nanofluids in Square Enclosure. <b>2022</b> , 6, 101	4
187	A correlation to predict the thermal conductivity of MXene-silicone oil based nano-fluids and data driven modeling using artificial neural networks.	1
186	Agrawal Axisymmetric Rotational Stagnation-Point Flow of a Water-Based Molybdenum Disulfide-Graphene Oxide Hybrid Nanofluid and Heat Transfer Impinging on a Radially Permeable Moving Rotating Disk.. <b>2022</b> , 12,	2
185	Application of the Photoacoustic Approach in the Characterization of Nanostructured Materials.. <b>2022</b> , 12,	1
184	Raman Spectroscopy Characterization of Mineral Oil and Palm Oil with Added Multi-Walled Carbon Nanotube for Application in Oil-Filled Transformers. <b>2022</b> , 15, 1534	
183	The Performance of an Automobile Radiator with Aluminum Oxide Nanofluid as a CoolantAn Experimental Investigation.	1
182	Experimental Study on the Efficiency Improvement of Flat Plate Solar Collectors Using Hybrid Nanofluids Graphene/Waste Cotton. <b>2022</b> , 15, 2309	2
181	The Role of Double-Diffusion Convection and Induced Magnetic Field on Peristaltic Pumping of a Johnson-Segalman Nanofluid in a Non-Uniform Channel.. <b>2022</b> , 12,	2
180	Experimental investigation into efficiency of SiO <sub>2</sub> /water-based nanofluids in photovoltaic thermal systems using response surface methodology. <b>2022</b> , 235, 229-241	2

179	Tailoring stability and thermophysical properties of CuO nanofluid through ultrasonication. 1	0
178	Surface Modification of Boron Nitride Nanosheets for Effective Heat Transfer Applications. 1	1
177	Comparative study of hybrid and nanofluid flows over an exponentially stretched curved surface with modified Fourier law and dust particles. 1-21	2
176	Analysis of Unsteady Magnetohydrodynamic 3-D Rotating Flow and Transfer of Heat in Carbon Nanotube-Water Nanofluid: An Engineering Application. <b>2022</b> , 11, 204-213	1
175	A review on applications and techniques of improving the performance of heat pipe-solar collector systems. <b>2022</b> , 236, 417-433	4
174	Thermal management system for liquid-cooling PEMFC stack: From primary configuration to system control strategy. <b>2022</b> , 12, 100165	1
173	Heat transfer and electrical discharge of hybrid nanofluid coolants in a fuel cell cooling channel application. <b>2022</b> , 210, 118369	1
172	Numerical simulation of a non-linear nanofluidic model to characterise the MHD chemically reactive flow past an inclined stretching surface. <b>2022</b> , 5, 100332	3
171	Experimental and numerical investigation on thermal and hydraulic performance of novel serpentine minichannel heat sink for liquid CPU cooling. <b>2022</b> , 8, 3375-3385	0
170	A comprehensive analysis of nanofluids and their practical applications for flat plate solar collectors: Fundamentals, thermophysical properties, stability, and difficulties. <b>2022</b> , 8, 4461-4490	2
169	Spiral Is	0
168	Study of 3-D Prandtl Nanofluid Flow over a Convectively Heated Sheet: A Stochastic Intelligent Technique. <b>2022</b> , 12, 24	4
167	Biocompatible polymer-capped oxidation-resistant copper nanoparticles for nanofluid and hydrogel applications. <b>2022</b> , 137, 1	0
166	Tribology and machinability performance of hybrid Al <sub>2</sub> O <sub>3</sub> -MWCNTs nanofluids-assisted MQL for milling Ti-6Al-4V. <b>2022</b> , 119, 2127-2144	1
165	Nanofluids as coolants. <b>2022</b> , 713-735	
164	Melting aspects in flow of second grade nanomaterial with homogeneous/heterogeneous reactions and irreversibility phenomenon: A residual error analysis. <b>2022</b> , 47, 146867832210903	
163	Thermophysical Properties and Heat Transfer Characteristics of Nanorefrigerants: Some Existing Results and Areas for Further Researches. 917, 207-227	0
162	Experimental Evaluation of a Full-Scale HVAC System Working with Nanofluid. <b>2022</b> , 15, 2902	0

- 161 Local and directional characteristics of nanofluids: a non-equilibrium molecular dynamics study. **2022**, 36, 2481
- 160 Effect of surfactant on stability, thermal conductivity, and viscosity of aluminium oxide-ethanol nanofluids for heat transfer applications. **2022**, 31, 101302 1
- 159 Performance and limitation of mineral oil-based carbon nanotubes nanofluid in transformer application. **2022**, 61, 9623-9635 1
- 158 Nano engineered materials in solar energy systems for clean environment [A review]. **2022**, 16.2 0
- 157 Fouling Behavior and Dispersion Stability of Nanoparticle-Based Refrigeration Fluid. **2022**, 15, 3059 0
- 156 Analysis of Turning Performance on AISI O1 Steel Using VO+nMoS2 as Coolant. **2022**, 2022, 1-12 1
- 155 Synthesis and thermophysical properties of functionalized graphene quantum dots for enhancing heat transfer of conventional fluid. **2022**, 16.2 0
- 154 Experimental and COMSOL Multiphysics Modeling of Nanofluids Thermal Conductivity Using 3 $\omega$  Method. **2022**, 43, 16.2 0
- 153 Enhancing the tribological properties of hydraulic oil-based nanolubricants using MWCNT-SiO2 hybrid nanoparticles. **2022**, 44, 1 0
- 152 Effects of using nanofluid, applying a magnetic field, and placing turbulators in channels on the convective heat transfer: A comprehensive review. *Renewable and Sustainable Energy Reviews*, **2022**, 162, 112453 16.2 0
- 151 Proposing an Adaptive Neuro-Fuzzy System-Based Swarm Concept Method for Predicting the Physical Properties of Nanofluids. **2022**, 2022, 1-11
- 150 Hydro-magnetic impact on the nanofluid flow over stretching/shrinking sheet using Keller-box method. **2022**, 135, 106114 0
- 149 Nonlinear unsteady convection on micro and nanofluids with Cattaneo-Christov heat flux. **2022**, 113-132
- 148 Background to micro- and nanofluids. **2022**, 1-6
- 147 Levenberg Marquardt knacks-based intelligent networks for the magnetohydrodynamic third-grade fluid flow under activation energy and bio-convection. 1-24
- 146 A Perspective Review on Thermal Conductivity of Hybrid Nanofluids and Their Application in Automobile Radiator Cooling. **2022**, 2022, 1-51 0
- 145 The microchannel type effects on water-Fe3O4 nanofluid atomic behavior: Molecular dynamics approach. **2022**, 135, 104396 7
- 144 Recent progress in emerging hybrid nanomaterials towards the energy storage and heat transfer applications: A review. **2022**, 360, 119443 1

143	Experimental investigations of the nanofluid applications in the pool boiling process. <b>2022</b> , 163-184	0
142	Mathematical and numerical investigations of CO <sub>2</sub> absorption and desorption process. <b>2022</b> , 205-226	0
141	Current overview of nanofluid applications. <b>2022</b> , 1-26	0
140	Experimental investigations of direct absorption solar collectors. <b>2022</b> , 107-132	0
139	Numerical and experimental investigations of application of nanofluids in flow boiling processes. <b>2022</b> , 185-204	
138	Nanofluid-based drug delivery systems. <b>2022</b> , 303-334	1
137	Battery thermal management systems: Recent progress and challenges. <b>2022</b> , 100171	4
136	Modeling of Soret and Dufour Convective Heat Transfer in Nanofluid Flow Through a Moving Needle with Artificial Neural Network.	3
135	Reactive molecular dynamics simulation of thermo-physicochemical properties of non-covalent functionalized graphene nanofluids. <b>2022</b> , 32, 103869	0
134	Materials for energy conversion in membrane distillation localized heating: Review, analysis and future perspectives of a paradigm shift. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 167, 112702	16.2 0
133	Nanoparticles for next-generation transformer insulating fluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 167, 112645	16.2 0
132	Influence of grinding parameters on surface roughness and temperature under carbon nanotube assisted MQL. 1-24	2
131	Homotopic framework for the Buongiorno model of 2D viscoelastic nanofluid flow toward a porous curve surface with ohmic heating and Brownian diffusion effects. 1-21	2
130	Energy transport boosters of magneto micropolar fluid flowing past a cylinder: A case of laminar combined convection. 095440622211110	1
129	MHD heat and mass transfer stagnation point nanofluid flow along a stretching sheet influenced by thermal radiation.	1
128	Neural artificial networking for a nonlinear darcy-Borchheimer chemically reactive flow: Levenberg marquardt analysis.	
127	Laser-ablated Synthesis of Ag@TiO <sub>2</sub> NPs on Si nanostructure as humidity sensor. <b>2022</b> , 169644	1
126	The chronological study on parametric evolution of pool boiling with nanofluids: An experimental review. <b>2022</b> , 101420	

125	Experimental Studies on Water-Based Al <sub>2</sub> O <sub>3</sub> Nanofluid to Enhance the Performance of the Hybrid Collector. <b>2022</b> , 2022, 1-11		0
124	Optimization of a Proposed Cooling Bed with Nanoparticles for Superheated Sheet-Metal Rolling. <b>2022</b> , 11, 563-571		
123	Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 166, 112660	16.2	6
122	A Review of the Advances and Challenges in Measuring the Thermal Conductivity of Nanofluids. <b>2022</b> , 12, 2526		0
121	Comprehensive review of state-of-the-art photovoltaic cooling technologies. <b>2022</b> ,		
120	A forced convection of water-aluminum oxide nanofluids in a square cavity containing a circular rotating disk of unit speed with high Reynolds number: A Comsol Multiphysics study. <b>2022</b> , 102370		1
119	Entropy generation analysis for axisymmetric flow of carreau nanofluid over a horizontally stretching cylinder. 095440892210781		
118	Linear stability analysis of electro-convection in dielectric Oldroydian nanofluid.		0
117	Thermal properties, flow and comparison between Cu and Ag nanoparticles suspended in sodium alginate as sutterby nanofluids in solar collector. <b>2022</b> , 102358		2
116	Toxicity Analysis of Nano-Minimum Quantity Lubrication Machining A Review. <b>2022</b> , 10, 176		2
115	Investigation of atomic behavior and pool boiling heat transfer of water/Fe nanofluid under different external heat fluxes and forces: A molecular dynamics approach. <b>2022</b> , 38, 102308		2
114	Forced convection heat transfer of nanofluids in turbulent flow in a flat tube of an automobile radiator. <b>2022</b> , 8, 1185-1195		0
113	Preparation, Characterization, Stability and Thermophysical Properties of Bio, Non-Bio (Metallic and Non-Metallic) and Hybrids Nanofluids: A Review. <b>2022</b> , 11, 803-818		
112	The crucial features of aggregation in TiO <sub>2</sub> -water nanofluid aligned of chemically comprising microorganisms: A FEM approach. <b>2022</b> , 123, 241-251		6
111	Experimental Thermohydraulic Characterisation of Flow Boiling and Condensation in Additive Manufactured Plate-Fin Heat Exchanger.		0
110	Assessment of thermal conductivity and viscosity of alumina-based engine coolant nanofluids using random forest approach. <b>2022</b> ,		0
109	Chemical Reaction and Viscous Dissipative Effects on Buongiorno's Nanofluid Model Past an Inclined Plane.		0
108	Thermophysical features of Ellis hybrid nanofluid flow with surface-catalyzed reaction and irreversibility analysis subjected to porous cylindrical surface. 10,		0



107	Analysis of cutting fluid on minimum quantity lubrication by using vegetable oil. <b>2022,</b>	0
106	Significance of the third-order slip flow of graphene-(100% water, 70% water + 30% ethylene glycol, and 50% water + 50% ethylene glycol) nanofluids flow over a stretching surface with a Cattaneo-Cristov heat and mass flux model.	0
105	Comparative Study on Rosseland Heat Flux on Three-Dimensional MHD Stagnation-Point Multiple Slip Flow of Ternary Hybrid Nanofluid over a Stretchable Rotating Disk. <b>2022,</b> 10, 3342	1
104	Thermophysical analysis of Al <sub>2</sub> O <sub>3</sub> /CuO nanofluid in water/EG basefluid for hybrid louvered heat exchanger. 095440622211247	0
103	Newtonian heating effect in pulsating magnetohydrodynamic nanofluid flow through a constricted channel: A numerical study. 10,	1
102	Irreversibility analysis of Ellis hybrid nanofluid with Surface catalyzed reaction and multiple slip effects on a horizontal porous stretching cylinder. <b>2022,</b> 104326	0
101	A minireview on nanofluids for automotive applications: current status and future perspectives. <b>2022,</b> 119428	1
100	Thermophoresis deposition of hybrid ferrite nanoparticles on micropolar flow through a shrinking sheet with non-uniform heat source/sink and nonlinear radiation. 1-22	0
99	Heat transfer and pressure drop characteristics of ZnO/DIW based nanofluids in small diameter compact channels: An experimental study. <b>2022,</b> 39, 102441	1
98	Experimental thermohydraulic characterisation of flow boiling and condensation in additive manufactured plate-fin heat exchanger. <b>2022,</b> 199, 123465	0
97	Numerical Analysis of Effects of Aspect Ratio of Rod-like Nanoparticles on Thermal and Flow Behavior of Nanofluids in Backward-facing Step Flows. <b>2022,</b> 50, 323-332	0
96	Understanding of Contradiction on Concentration Effect on Stability, Physical Properties, Evaporation and Microexplosion Characteristics of Al/JP-10/Oleic Acid Nanofluid Fuel. <b>2022,</b> 12, 3446	1
95	Experimental Core Flooding Investigation of New ZnO/Al <sub>2</sub> O <sub>3</sub> Nanocomposites for Enhanced Oil Recovery in Carbonate Reservoirs. <b>2022,</b> 7, 39107-39121	3
94	Discussion on Heat Transfer Enhancement Methods. <b>2023,</b> 171-182	0
93	Two-Dimensional MXene as a Nanofluidic Anolyte Additive for Enhancing Performance of Vanadium Redox Flow Batteries.	0
92	Parabolic Trough Collector (PTC). <b>2023,</b> 15-36	0
91	Effect of surface modifier and solvent on the affinity between the surface-modified solid and organic solvent: A molecular dynamics study. <b>2022,</b> 12, 105206	0
90	PTC Enhancement Using Nanofluids. <b>2023,</b> 121-169	0

- 89 Entropy analysis of hybrid nanofluid flow in a porous medium with variable permeability considering isothermal/isoflux conditions. **2022**, ○
- 88 On Some Convective Mechanisms of Nanofluids. **2023**, 255-263 ○
- 87 Rayleigh-Bard instability in nanofluids: effect of gravity settling. **2022**, 950, ○
- 86 Effect of nano-minimum quantity lubrication on cutting temperature and surface roughness of milling AISI D3 tool steel. **2022**, ○
- 85 Unsteady axisymmetric flow of nanofluid on nonlinearly expanding surface with variable fluid properties. **2022**, 100064 ○
- 84 PTC Enhancement Using Passive Techniques. **2023**, 37-120 ○
- 83 Background. **2023**, 1-13 ○
- 82 Impact of slip boundaries on double diffusivity convection in an asymmetric channel with magneto-tangent hyperbolic nanofluid with peristaltic flow. ○
- 81 Complex Experimental Investigation of the Effect of Fullerene C60 on the Thermophysical Properties of O-Xylene. **2022**, ○
- 80 Synergetic effects of surface textures with modified copper nanoparticles lubricant additives on the tribological properties of cylinder liner-piston ring. **2022**, 108085 ○
- 79 Investigating the rheological behavior of a hybrid nanofluid (HNF) to present to the industry. **2022**, e11561 ○
- 78 Numerical simulation for nanofluid forced/free convection in a partially heated parallelogram enclosure: Effects of wall undulation and inclined Lorentz forces. ○
- 77 Increasing the accuracy of estimating the dynamic viscosity of hybrid nano-lubricants containing MWCNT-MgO nanoparticles by optimizing using an artificial neural network. **2022**, 104405 ○
- 76 Arrhenius activated energy impacts on irreversibility optimization due to unsteady stagnation point flow of radiative Casson nanofluids. **2022**, 137, 4
- 75 Experimental study on effectiveness in segmental baffled shell tube and heat exchanger using Al2O3 nanofluid at variable concentrations. 095440892211344 ○
- 74 Experimental Analysis of the Thermal Performance Enhancement of a Vertical Helical Coil Heat Exchanger Using Copper Oxide-Graphene (80-20%) Hybrid Nanofluid. **2022**, 12, 11614 4
- 73 Dynamics of magnetohydrodynamic and ferrohydrodynamic natural convection flow of ferrofluid inside an enclosure under non-uniform magnetic field. **2022**, ○
- 72 The effect of radiation and porosity on MHD nanofluid flow and heat transfer across a stretching cylinder. 1-19 ○

71	Mixed convection MHD hybrid nanofluid over a shrinking permeable inclined plate with thermal radiation effect. <b>2022,</b>	0
70	Enhancement of heat transfer rate in shell & tube heat exchanger using CuO/Al <sub>2</sub> O <sub>3</sub> -water based nanofluids. <b>2022,</b>	0
69	The potential of liquid-based spectrally-selective optical filtration and its use in hybrid photovoltaic/thermal solar systems. <b>2023,</b> 249, 569-605	0
68	FEM computations and Taguchi optimization in nonlinear radiative MHD MWCNT-MgO/EG hybrid nanoliquid flow and heat transfer over a 3D wedge surface. <b>2023,</b> 41, 102639	0
67	Chapter 15. Socio-economic and Environmental Impacts of Nanofluids. <b>2022,</b> 437-451	0
66	Theoretical study on enhancement of heat transfer of nanofluids with functionalized graphene flakes in confined nanopipe system. <b>2022,</b>	0
65	MHD Mixed Convection of Hybrid Ferrofluid Flow over an Exponentially Stretching/Shrinking Surface with Heat Source/Sink and Velocity Slip. <b>2022,</b> 10, 4400	2
64	Biological Applications of Nanofluids: Antimicrobial Activity and Drug Delivery. <b>2023,</b> 19-45	0
63	Exploration of the effects of Coriolis force and thermal radiation on water-based hybrid nanofluid flow over an exponentially stretching plate. <b>2022,</b> 12,	0
62	Investigation of Mixed Convection in Spinning Nanofluid over Rotating Cone Using Artificial Neural Networks and BVP-4C Technique. <b>2022,</b> 10, 4833	0
61	Molecular dynamics simulation on the friction properties of confined nanofluids. <b>2022,</b> 105252	0
60	Nanofluids, micro-lubrications and machining process optimisations [a review]. <b>2023,</b> 10, 1	0
59	Analysis of size and concentration of nanoparticles contained in cutting fluid during turning of 316L steel in minimum quantity lubrication conditions. <b>2023,</b> 87, 106-122	0
58	Investigation of MHD natural convective flow of optically thick medium-radiating CNT Casson nanofluid over an infinite flat plate with reference to Caputo fractional derivative: As an application to water purification. <b>2023,</b> 567, 170330	0
57	Thermal progression via bi-directional stretching surface for unsteady dynamics of magnetized elastico-viscous nanofluid subject to variable thermal conditions: a comprehensive analysis. 1-25	0
56	Analysis of Error and Stability of Nanofluid over Horizontal Channel with Heat/Mass Transfer and Nonlinear Thermal Conductivity. <b>2023,</b> 11, 690	2
55	Performance of refrigeration system using Al <sub>2</sub> O <sub>3</sub> , CuO and TiO <sub>2</sub> nano-enhanced refrigerants: A review. <b>2023,</b>	0
54	Natural convection heat transfer enhancement using nanofluids. <b>2023,</b> 39-62	0

- 53 Performance evaluation of car radiator using nano fluids. **2023**, ○
- 52 Nanofluids for CO2 capture. **2023**, 89-135 ○
- 51 Synthesis of in situ Generated Cu $\text{CNT}$  Hybrid Nanofluid and the Study of Their Thermo-physical Properties. **2023**, 8, ○
- 50 Numerical simulation and experimental studies of performance of flat tube with water based nanofluids. **2023**, ○
- 49 Syngas purification by modified solvents with nanoparticles. **2023**, 101-130 ○
- 48 New horizons in magnetic refrigeration using artificial intelligence. **2023**, 335, 120773 ○
- 47 Thermophysical Properties And Applications Nanofluids [On Review. **2022**, ○
- 46 Heat transfer and fluid flow characteristics of the passive method in double tube heat exchangers: A critical review. **2023**, 17, 100282 ○
- 45 Multi-functional solvent-free SiO<sub>2</sub> nanofluid simultaneously improve major properties and fluidity of epoxy resin: A new strategy beyond nanofillers. **2023**, 210, 110308 ○
- 44 Energy transfer in Carreau Yasuda liquid influenced by engine oil with Magnetic dipole using tri-hybrid nanoparticles. **2023**, 13, ○
- 43 Thermal properties of graphene oxide nanofluids. ○
- 42 One-step laser ablation synthesis of magnetic nanoparticles with carbon coating for tribological applications. **2023**, 183, 108371 ○
- 41 Optimization of a phase change material enhanced low-concentration photovoltaic/thermal module. **2023**, 287, 112987 ○
- 40 Comparative review and evaluation of state-of-the-art photovoltaic cooling technologies. **2023**, 406, 136953 ○
- 39 Biobased natural deep eutectic system as versatile solvents: Structure, interaction and advanced applications. **2023**, 881, 163002 ○
- 38 A review on solar energy intensified biomass valorization and value-added products production: Practicability, challenges, techno economic and lifecycle assessment. **2023**, 405, 137028 ○
- 37 Potential of molecular dynamics in the simulation of nanofluids properties and stability. **2023**, 381, 121757 ○
- 36 Thermal efficiency enhancement of mono and hybrid nanofluids in solar thermal applications [A review. **2023**, 68, 365-404 ○

35	Solar still productivity improvement using nanofluids: a comprehensive review. 1-21	o
34	Effect of Buoyancy Force on an Unsteady Thin Film Flow of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid over an Inclined Stretching Sheet. <b>2023</b> , 11, 739	o
33	The influence of particle size on the viscosity of water based ZnO nanofluid. <b>2023</b> , 68, 561-576	o
32	Finite element analysis of the impact of particles aggregation on the thermal conductivity of nanofluid under chemical reaction. 1-21	o
31	Electromagnetic Response of Core-Satellite Nanoparticles for Application in Photothermal Conversion. <b>2023</b> , 18, 661-676	o
30	State-of-the-Art in Sustainable Machining of Different Materials Using Nano Minimum Quality Lubrication (NMQL). <b>2023</b> , 11, 64	1
29	The Cheng-Minkowycz problem for quadratic convective and radiative heat transfer in a nanofluid saturated porous medium: A revised model. <b>2023</b> , 43, 102802	o
28	Lanthanum Oxide - Barium Oxide Nanofluid With Enhanced Thermal Engineering Application.	o
27	Insights into stretching ratio and velocity slip on MHD rotating flow of Maxwell nanofluid over a stretching sheet: Semi-analytical technique OHAM. <b>2023</b> , 100, 100937	o
26	A review on nanofluids coupled with extended surfaces for heat transfer enhancement. <b>2023</b> , 17, 100957	o
25	Nanofluids- Nanotechnology and Fluid Mechanics.	o
24	Quasilinear Hyperbolic Systems Applied to Describe the Magnetohydrodynamic Nanofluid Flow. <b>2023</b> , 2023, 1-10	o
23	Numerical and experimental study of the influence of extended surfaces in rectangular channel subjected to constant heat flux. 1-19	1
22	Assessment of Thermophysical Properties of Hybrid Nanoparticles [Graphene Nanoplatelets (GNPs) and Cellulose Nanocrystal (CNC)] in a Base Fluid for Heat Transfer Applications. <b>2023</b> , 44,	o
21	Computational analysis of heat transfer via heatlines for MHD natural convection ferrofluid flow inside the U-shaped cavity. <b>2023</b> , 138,	o
20	Mathematical modeling for experimental data to investigate the convective heat transfer in non-Newtonian nanofluid's flow over a thin needle.	o
19	Single phase nanofluid thermal conductivity and viscosity prediction using neural networks and its application in a heated pipe of a circular cross section.	o
18	Role of Nanofluid and Hybrid Nanofluid for Enhancing Thermal Conductivity towards Exponentially Stretching Curve with Modified Fourier Law Inspired by Melting Heat Effect. <b>2023</b> , 11, 1170	o

- 17 Non-Unique Solutions of Magnetohydrodynamic Stagnation Flow of a Nanofluid towards a Shrinking Sheet Using the Solar Radiation Effect. **2023**, 14, 565 ○
- 16 A review of different working fluids used in the receiver tube of parabolic trough solar collector. ○
- 15 A Critical Review on the Thermal Transport Characteristics of Graphene-Based Nanofluids. **2023**, 16, 2663 ○
- 14 Effect of thermal radiation on convective heat transfer in MHD boundary layer Carreau fluid with chemical reaction. **2023**, 13, ○
- 13 Effect of silver nanoparticle volume fraction on thermal conductivity, specific heat and viscosity of ethylene glycol base silver nanofluid: A molecular dynamics investigation. **2023**, 378, 121635 ○
- 12 Roll of partial slip on Ellis nanofluid in the proximity of double diffusion convection and tilted magnetic field: Application of Chyme movement. **2023**, 9, e14760 ○
- 11 Nano engineered materials in solar energy systems for clean environment [A review]. **2023**, ○
- 10 The use of SiO<sub>2</sub>-H<sub>2</sub>O nanofluid to improve heat transfer in a linear fresnel mirror collector (LFMC) with CPC. **2023**, ○
- 9 Enhancement of CO<sub>2</sub> absorption and heat transfer properties using amine functionalized magnetic graphene oxide/MDEA nanofluid. ○
- 8 Applications of Nanotechnology in the Harvesting of Solar Energy. **2023**, 239-256 ○
- 7 Application of Nanofluid for Solar Stills. **2023**, 25-47 ○
- 6 Developing Innovations in Parabolic Trough Collectors (PTCs) Based on Numerical Studies. **2023**, 145-189 ○
- 5 Nanofluids in Flat Plate Solar Collectors. **2023**, 273-287 ○
- 4 Nanofluids in Solar Thermal Parabolic Trough Collectors (PTCs). **2023**, 191-237 ○
- 3 Two-dimensional nanofluid flow impinging on a porous stretching sheet with nonlinear thermal radiation and slip effect at the boundary enclosing energy perspective. **2023**, 13, ○
- 2 Experimental investigations on the thermal properties of rare earth-metal oxide based thermol nano fluids for heat transfer applications. **2023**, 48, ○
- 1 Experimental and numerical investigation of direct absorption solar collectors (DASCs) based on carbon black nanofluids. 1-22 ○