arash Karimipour

List of Publications by Year in Descending Order

253 papers	11,029 citations	65 h-index	95 g-index
267 ext. papers	12,994 ext. citations	4.1 avg, IF	7.47 L-index

#	Paper	IF	Citations
253	Phase change material dependency on solar power plant building through examination of energy-saving. *Journal of Energy Storage*, **2022**, 45, 103718	7.8	1
252	Effects of various temperature and pressure initial conditions to predict the thermal conductivity and phase alteration duration of water based carbon hybrid nanofluids via MD approach. *Journal of Molecular Liquids*, **2022**, 351, 118654	6	4
251	Examining the effects of interior setpoint temperature on phase change materials usefulness through a performing annual analysis in the air handling units: A building energy management study. *Journal of Energy Storage*, **2022**, 48, 103991	7.8	2
250	The investigation of Fe3O4 atomic aggregation in a nanochannel in the presence of magnetic field: Effects of nanoparticles distance center of mass, temperature and total energy via molecular dynamics approach. *Journal of Molecular Liquids*, **2022**, 348, 118400	6	2
249	The effect of sedimentation phenomenon of the additives silver nano particles on water pool boiling heat transfer coefficient: A comprehensive experimental study. *Journal of Molecular Liquids*, **2022**, 345, 117891	6	0
248	Energetic thermo-physical analysis of MLP-RBF feed-forward neural network compared with RLS Fuzzy to predict CuO/liquid paraffin mixture properties. *Engineering Applications of Computational Fluid Mechanics*, **2022**, 16, 764-779	4.5	0
247	Lithium-ion batteries investigation regarding different fins distribution associated electrochemical effects and various voltage types. *Journal of Energy Storage*, **2022**, 51, 104383	7.8	0
246	Numerical study of the cooling effect of a PVT on its thermal and electrical efficiency using a Cu tube of different diameters and lengths. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102044	4.7	2
245	The effects of initial temperature and pressure on the mechanical properties of reinforced calcium phosphate cement with magnesium nanoparticles: A molecular dynamics approach. *International Communications in Heat and Mass Transfer*, **2022**, 135, 106067	5.8	0
244	Thermal management of a battery pack using a layer of phase change material around the batteries: Changes in the airflow through the battery. *Journal of Energy Storage*, **2022**, 52, 104759	7.8	0
243	Atomic coatings effects on the combustion of aluminium hydride nanoparticles dispersed in liquid oxygen: Molecular dynamics simulation for the oxygenated environments. *Journal of Molecular Liquids*, **2022**, 359, 119283	6	0
242	Improve the rheological and thermal performances of the antifreeze liquids for cooling the batteries and radiators in automobiles via provide a new hybrid material composed from Carbon Nanotubes in Ethylene Glycol/Propylene Glycol. *Journal of Energy Storage*, **2022**, 52, 104982	7.8	0
241	The Molecular Dynamics study of atomic structure behavior of LL-37 peptide as the antimicrobial agent, derived from the human cathelicidin, inside a nano domain filled by the aqueous environment. *Journal of Molecular Liquids*, **2021**, 349, 118187	6	0
240	Numerical analysis of forced convection heat transfer in a rectangular micro-channel totally filled with Ag/ water nano fluid in slip flow regime using the lattice Boltzmann method. *E3S Web of Conferences*, **2021**, 321, 04008	0.5	
239	Convection Inside Nanofluid Cavity with Mixed Partially Boundary Conditions. *Energies*, **2021**, 14, 6448	3.1	1
238	Water molecules adsorption by a porous carbon matrix in the presence of NaCl impurities using molecular dynamic simulation. *Journal of Molecular Liquids*, **2021**, 347, 117998	6	0
237	Numerical investigation of magnetic field on forced convection heat transfer and entropy generation in a microchannel with trapezoidal ribs. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1746-1760	4.5	4

236	Comparison of Nusselt number and stream function in tall and narrow enclosures in the mixed convection of hybrid nanofluid. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1599-1609	4.1	4
235	Thermal particle base methods in fluid flow and heat transfer. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 2027-2029	4.1	
234	The molecular dynamics study of aluminum nanoparticles effect on the atomic behavior of argon atoms inside zigzag nanochannel. *Journal of Molecular Liquids*, **2021**, 331, 115714	6	5
233	Efficacy of incorporating PCMs into the commercial wall on the energy-saving annual thermal analysis. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2179-2187	4.1	19
232	Numerical study on the performance of a homogeneous charge compression ignition engine fueled with different blends of biodiesel. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2695-2705	4.1	14
231	Application of rotating circular obstacles in improving ferrofluid heat transfer in an enclosure saturated with porous medium subjected to a magnetic field. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 3301-3323	4.1	17
230	Mixed thermomagnetic convection of ferrofluid in a porous cavity equipped with rotating cylinders: LTE and LTNE models. *Journal of Thermal Analysis and Calorimetry*, **2021**, 146, 187-226	4.1	17
229	A new correlation for predicting the thermal conductivity of liquid refrigerants. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 795-800	4.1	6
228	Experimental investigation of the hydrothermal aspects of water–Fe3O4 nanofluid inside a twisted tube. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 801-810	4.1	8
227	A review on the properties, preparation, models and stability of hybrid nanofluids to optimize energy consumption. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 1959-1983	4.1	56
226	Discrete ordinates thermal radiation with mixed convection to involve nanoparticles absorption, scattering and dispersion along radiation beams through the nanofluid. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 2801-2824	4.1	13
225	Potential energy and atomic stability of H2O/CuO nanoparticles flow and heat transfer in non-ideal microchannel via molecular dynamic approach: the Green–Kubo method. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 2515-2523	4.1	12
224	Nonlinear model identification of dissimilar laser joining of S.S 304 and ABS using the Hammerstein–Wiener method. *Optik*, **2021**, 225, 165649	2.5	5
223	Molecular dynamics simulation concerning nanofluid boiling phenomenon affected by the external electric field: Effects of number of nanoparticles through Pt, Fe, and Au microchannels. *Journal of Molecular Liquids*, **2021**, 324, 114775	6	6
222	Develop a numerical approach of fuzzy logic type-2 to improve the reliability of a hydraulic automated guided vehicles. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 1396-1409	4.5	0
221	Development of the ANN–KIM composed model to predict the nanofluid energetic thermal conductivity via various types of nano-powders dispersed in oil. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 2123-2128	4.1	4
220	Atomic rheology analysis of the external magnetic field effects on nanofluid in non-ideal microchannel via molecular dynamic method. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1655-1663	4.1	13
219	The experimental/numerical investigation of variations in strip speed, water shower pattern and water temperature on high-temperature strip cooling rate in hot strip mill. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 293-308	4.1	4

218	Role of gradients and vortexes on suitable location of discrete heat sources on a sinusoidal-wall microchannel. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1176-1190	4.5	6
217	Liquid Paraffin Thermal Conductivity with Additives Tungsten Trioxide Nanoparticles: Synthesis and Propose a New Composed Approach of Fuzzy Logic/Artificial Neural Network. *Arabian Journal for Science and Engineering*, **2021**, 46, 2543-2552	2.5	7
216	Magnetic field effects on O2/Ar liquid flow through a platinum micro-channel via dissipative particle molecular dynamics approach. *Journal of Molecular Liquids*, **2021**, 326, 115286	6	1
215	Vacancy defect influence on nanofluid flow and absorbed thermal energy in a nanochannel affected by Universal Force Field via composed approach of embedded atom model/molecular dynamics method. *Journal of Molecular Liquids*, **2021**, 333, 115927	6	3
214	Effects of Brownian motions and thermophoresis diffusions on the hematocrit and LDL concentration/diameter of pulsatile non-Newtonian blood in abdominal aortic aneurysm. *Journal of Non-Newtonian Fluid Mechanics*, **2021**, 294, 104576	2.7	11
213	Investigation of the effect of adding nano-encapsulated phase change material to water in natural convection inside a rectangular cavity. *Journal of Energy Storage*, **2021**, 40, 102699	7.8	21
212	Water□copper nanofluid flow in flat and ribbed microchannels: numerical modeling and optimization. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 3219-3244	4.5	1
211	Effects of examine the phase change material through applying the solar collectors: exergy analysis of an air handling unit equipped with the heat recovery unit. *Journal of Energy Storage*, **2021**, 41, 103002	7.8	12
210	Fluid flow and heat transfer of the two-phase solid/liquid mixture at the equilibration phase structure via MD method: Atomic value effects in a case study of energy consumption and absorbed energy. *Journal of Molecular Liquids*, **2021**, 337, 116384	6	4
209	Two-phase solid/liquid mixture of water/carbon nanotubes at the equilibration phase of atomic structures: Atomic value effects in a microchannel using the molecular dynamics method. *Journal of Molecular Liquids*, **2021**, 339, 116820	6	1
208	Experimental investigation of the effectiveness of ultrasounds on increasing heat transfer coefficient of heat exchangers. *International Communications in Heat and Mass Transfer*, **2021**, 127, 105575	5.8	1
207	Using phase change material as an energy-efficient technique to reduce energy demand in air handling unit integrated with absorption chiller and recovery unit□Applicable for high solar-irradiance regions. *Journal of Energy Storage*, **2021**, 42, 103080	7.8	13
206	The Molecular dynamics study of atomic Management and thermal behavior of Al-Water Nanofluid: A two phase unsteady simulation. *Journal of Molecular Liquids*, **2021**, 340, 117286	6	1
205	Improve thermal performance of Simulated-Body-Fluid as a solution with an ion concentration close to human blood plasma, by additive Zinc Oxide and its composites: ZnO/Carbon Nanotube and ZnO/Hydroxyapatite. *Journal of Molecular Liquids*, **2021**, 342, 117457	6	5
204	The investigation of energy management and atomic interaction between coronavirus structure in the vicinity of aqueous environment of HO molecules via molecular dynamics approach. *Journal of Molecular Liquids*, **2021**, 341, 117430	6	0
203	Improve the efficiency and heat transfer rate□trend prediction of a flat-plate solar collector via a solar energy installation by examine the Titanium Dioxide/Silicon Dioxide-water nanofluid. *Sustainable Energy Technologies and Assessments*, **2021**, 48, 101623	4.7	2
202	Increase thermal conductivity of aqueous mixture by additives graphene nanoparticles in water via an experimental/numerical study: Synthesise, characterization, conductivity measurement, and neural network modeling. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104864	5.8	25
201	Thermal conductivity enhancement of nanofluid by adding multiwalled carbon nanotubes: Characterization and numerical modeling patterns. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	18

200	The Effect of Hematocrit and Nanoparticles Diameter on Hemodynamic Parameters and Drug Delivery in Abdominal Aortic Aneurysm with Consideration of Blood Pulsatile Flow. *Computer Methods and Programs in Biomedicine*, **2020**, 195, 105545	6.9	14
199	Molecular dynamics study of barrier effects on Ferro- nanofluid flow in the presence of constant and time-dependent external magnetic fields. *Journal of Molecular Liquids*, **2020**, 308, 113152	6	9
198	Experimental measurements of thermal conductivity of engine oil-based hybrid and mono nanofluids with tungsten oxide (WO3) and MWCNTs inclusions. *Powder Technology*, **2020**, 371, 37-44	5.2	88
197	Three-dimensional simulation of wind tunnel diffuser to study the effects of different divergence angles on speed uniform distribution, pressure in outlet, and eddy flows formation in the corners. *Physics of Fluids*, **2020**, 32, 052006	4.4	5
196	Efficacy of hybrid nano-powder presence on the thermal conductivity of the engine oil: An experimental study. *Powder Technology*, **2020**, 369, 261-269	5.2	53
195	Molecular dynamics simulation of ferronanofluid behavior in a nanochannel in the presence of constant and time-dependent magnetic fields. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 2625-2633	4.1	15
194	Comparison of the artificial neural network model prediction and the experimental results for cutting region temperature and surface roughness in laser cutting of AL6061T6 alloy. *Infrared Physics and Technology*, **2020**, 108, 103364	2.7	10
193	Functionalized Multi-Walled carbon Nano Tubes nanoparticles dispersed in water through an Magneto Hydro Dynamic nonsmooth duct equipped with sinusoidal-wavy wall: Diminishing vortex intensity via nonlinear Navier–Stokes equations. *Mathematical Methods in the Applied Sciences*,	2.3	22
192	Using of Artificial Neural Networks (ANNs) to predict the thermal conductivity of Zinc Oxide–Silver (50%–50%)/Water hybrid Newtonian nanofluid. *International Communications in Heat and Mass Transfer*, **2020**, 116, 104645	5.8	40
191	Roll of stenosis severity, artery radius and blood fluid behavior on the flow velocity in the arteries: Application in biomedical engineering. *Medical Hypotheses*, **2020**, 144, 109864	3.8	12
190	Effect of copper nanoparticles on thermal behavior of water flow in a zig-zag nanochannel using molecular dynamics simulation. *International Communications in Heat and Mass Transfer*, **2020**, 116, 104652	5.8	12
189	Optimization of FX-70 refrigerant evaporative heat transfer and fluid flow characteristics inside the corrugated tubes using multi-objective genetic algorithm. *Chinese Journal of Chemical Engineering*, **2020**, 28, 2142-2151	3.2	4
188	Free convection/radiation and entropy generation analyses for nanofluid of inclined square enclosure with uniform magnetic field. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 635-648	4.1	35
187	Prediction of boiling flow characteristics in rough and smooth microchannels using molecular dynamics simulation: Investigation the effects of boundary wall temperatures. *Journal of Molecular Liquids*, **2020**, 306, 112937	6	37
186	Computer modeling of pulsatile blood flow in elastic artery using a software program for application in biomedical engineering. *Computer Methods and Programs in Biomedicine*, **2020**, 192, 105442	6.9	14
185	Simulation of blood flow into the popliteal artery to explain the effect of peripheral arterial disease: Investigation the conditions and effects of different foot states during the daily activity of the patient. *Computer Methods and Programs in Biomedicine*, **2020**, 195, 105638	6.9	3
184	Thermal Conductivity Enhancement via Synthesis Produces a New Hybrid Mixture Composed of Copper Oxide and Multi-walled Carbon Nanotube Dispersed in Water: Experimental Characterization and Artificial Neural Network Modeling. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	29
183	Modeling natural convective heat transfer within an inclined enclosure in the presence of copper oxide/water nanofluid. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	3

182	LBM modeling and analysis on microchannel slip flow and heat transfer under different heating conditions. *Numerical Heat Transfer; Part A: Applications*, **2020**, 78, 159-179	2.3	3
181	Develop Molecular Dynamics Method to Simulate the Flow and Thermal Domains of H2O/Cu Nanofluid in a Nanochannel Affected by an External Electric Field. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	27
180	Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations. *Renewable Energy*, **2020**, 153, 1296-1306	8.1	59
179	Numerical investigation of nanofluid laminar forced convection heat transfer between two horizontal concentric cylinders in the presence of porous medium. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 2095-2108	4.1	27
178	Sensitivity of adhesive and cohesive intermolecular forces to the incorporation of MWCNTs into liquid paraffin: Experimental study and modeling of surface tension. *Journal of Molecular Liquids*, **2020**, 310, 113235	6	43
177	Synthesis and characterization of additive graphene oxide nanoparticles dispersed in water: Experimental and theoretical viscosity prediction of non-Newtonian nanofluid. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	19
176	Evaluation of thermal conductivity of deionized water containing SDS-coated NiO nanoparticles under the influences ofconstant and alternative varied magnetic fields. *Powder Technology*, **2020**, 367, 143-156	5.2	5
175	The Effect of Nanoparticle Shape and Microchannel Geometry on Fluid Flow and Heat Transfer in a Porous Microchannel. *Symmetry*, **2020**, 12, 591	2.7	5
174	Using of artificial neural networks (ANNs) to predict the rheological behavior of magnesium oxide-water nanofluid in a different volume fraction of nanoparticles, temperatures, and shear rates. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	7
173	Introducing a Novel Air Handling Unit Based on Focusing on Turbulent Exhaust Air Energy-Exergy Recovery Potential. *Journal of Energy Resources Technology, Transactions of the ASME*, **2020**, 142,	2.6	4
172	Thermo-Hydraulic Performance of a Lubricant Containing Zinc Oxide Nano-Particles: A Two-Phase oil. *Journal of Energy Resources Technology, Transactions of the ASME*, **2020**, 142,	2.6	8
171	Forecasting and Optimization of the Viscosity of Nano-oil Containing Zinc Oxide Nanoparticles Using the Response Surface Method and Sensitivity Analysis. *Journal of Energy Resources Technology, Transactions of the ASME*, **2020**, 142,	2.6	3
170	Estimation of Pressure Drop of Two-Phase Flow in Horizontal Long Pipes Using Artificial Neural Networks. *Journal of Energy Resources Technology, Transactions of the ASME*, **2020**, 142,	2.6	50
169	Energy efficiency optimization of the waste heat recovery system with embedded phase change materials in greenhouses: A thermo-economic-environmental study. *Journal of Energy Storage*, **2020**, 30, 101445	7.8	50
168	Experimental investigation of temperature field and fusion zone microstructure in dissimilar pulsed laser welding of austenitic stainless steel and copper. *Journal of Manufacturing Processes*, **2020**, 56, 206-215	5	24
167	Influence of a membrane on nanofluid heat transfer and irreversibilities inside a cavity with two constant-temperature semicircular sources on the lower wall: applicable to solar collectors. *Physica Scripta*, **2020**, 95, 085702	2.6	50
166	A comprehensive presentation on nanoparticles electrical conductivity of nanofluids: Statistical study concerned effects of temperature, nanoparticles type and solid volume concentration. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 542, 123432	3.3	13
165	Prediction of rheological behavior of a new hybrid nanofluid consists of copper oxide and multi wall carbon nanotubes suspended in a mixture of water and ethylene glycol using curve-fitting on experimental data. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 549, 124101	3.3	28

164	Experimental and numerical study of temperature field and molten pool dimensions in dissimilar thickness laser welding of Ti6Al4V alloy. *Journal of Manufacturing Processes*, **2020**, 49, 438-446	5	16
163	Heat transfer analysis of energy and exergy improvement in water-tube boiler in steam generation process. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2791-2799	4.1	13
162	Viscosity, cloud point, freezing point and flash point of zinc oxide/SAE50 nanolubricant. *Journal of Molecular Liquids*, **2020**, 298, 112045	6	19
161	Controlled elitist multi-objective genetic algorithm joined with neural network to study the effects of nano-clay percentage on cell size and polymer foams density of PVC/clay nanocomposites. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2801-2810	4.1	13
160	Effect of twisted-tape inserts and nanofluid on flow field and heat transfer characteristics in a tube. *International Communications in Heat and Mass Transfer*, **2020**, 110, 104440	5.8	82
159	Energy and exergy analysis and optimization of a gas turbine cycle coupled by a bottoming organic Rankine cycle. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 495-510	4.1	17
158	Experimental study of temperature and mass fraction effects on thermal conductivity and dynamic viscosity of SiO2-oleic acid/liquid paraffin nanofluid. *International Communications in Heat and Mass Transfer*, **2020**, 110, 104436	5.8	43
157	Effect of an inclined partition with constant thermal conductivity on natural convection and entropy generation of a nanofluid under magnetic field inside an inclined enclosure: Applicable for electronic cooling. *Advanced Powder Technology*, **2020**, 31, 645-657	4.6	12
156	Numerical investigation on the effect of four constant temperature pipes on natural cooling of electronic heat sink by nanofluids: A multifunctional optimization. *Advanced Powder Technology*, **2020**, 31, 416-432	4.6	32
155	Maximum Obtainable Energy Harvesting Power from Galloping-Based Piezoelectrics. *Mathematical Problems in Engineering*, **2020**, 2020, 1-8	1.1	4
154	Comprehensive analysis on the effect of asymmetric heat fluxes on microchannel slip flow and heat transfer via a lattice Boltzmann method. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104856	5.8	11
153	Study the time evolution of nanofluid flow in a microchannel with various sizes of Fe nanoparticle using molecular dynamics simulation. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104874	5.8	8
152	Investigating the effect of process parameters on the mechanical properties and temperature distribution in fiber laser welding of AISI304 and AISI 420 sheet using response surface methodology. *Infrared Physics and Technology*, **2020**, 111, 103478	2.7	5
151	Performance of joined artificial neural network and genetic algorithm to study the effect of temperature and mass fraction of nanoparticles dispersed in ethanol. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	15
150	Non-uniform Slab Heating Pattern in a Preheating Furnace to Reduce Fuel Consumption: Burners Load Distribution Effects Through Semitransparent Medium via Discreet Ordinates Thermal Radiation and k Turbulent Model. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	7
149	Develop lattice Boltzmann method and its related boundary conditions models for the benchmark oscillating walls by modifying hydrodynamic and thermal distribution functions. *European Physical Journal Plus*, **2020**, 135, 1	3.1	8
148	Prediction of the interaction between HIV viruses and Human Serum Albumin (HSA) molecules using an equilibrium dynamics simulation program for application in bio medical science. *Journal of Molecular Liquids*, **2020**, 318, 113989	6	17
147	The Electric Field and Microchannel Type Effects on H2O/Fe3O4 Nanofluid Boiling Process: Molecular Dynamics Study. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	14

146	Nanoparticles migration due to thermophoresis and Brownian motion and its impact on Ag-MgO/Water hybrid nanofluid natural convection. *Powder Technology*, **2020**, 375, 493-503	5.2	57
145	Efficacy of injectable rib height on the heat transfer and entropy generation in the microchannel by affecting slip flow. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	29
144	Investigation of additives nanoparticles and sphere barriers effects on the fluid flow inside a nanochannel impressed by an extrinsic electric field: A molecular dynamics simulation. *Journal of Molecular Liquids*, **2020**, 318, 114023	6	13
143	Develop dissipative particle dynamics method to study the fluid flow and heat transfer of Ar and O2 flows in the micro- and nanochannels with precise atomic arrangement versus molecular dynamics approach. *Journal of Thermal Analysis and Calorimetry*, **2020**, 144, 2575	4.1	3
142	An experimental study on the cooling efficiency of magnetite□water nanofluid in a twisted tube exposed to a rotating magnetic field. *Journal of Thermal Analysis and Calorimetry*, **2020**, 1	4.1	1
141	Numerical simulation of the ferro-nanofluid flow in a porous ribbed microchannel heat sink: investigation of the first and second laws of thermodynamics with single-phase and two-phase approaches. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	7
140	The study of atomic porosity effect on water/Fe nanofluid flow in a microchannel with a molecular dynamics method. *Journal of Molecular Liquids*, **2020**, 317, 114291	6	15
139	Three-dimensional numerical simulation of external fluid flow and heat transfer of a heat exchanger in a wind tunnel using porous media model. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 1647-1667	4.1	12
138	A Novel Correlation to Calculate Thermal Conductivity of Aqueous Hybrid Graphene Oxide/Silicon Dioxide Nanofluid: Synthesis, Characterizations, Preparation, and Artificial Neural Network Modeling. *Arabian Journal for Science and Engineering*, **2020**, 45, 9747-9758	2.5	18
137	Comprehensive simulation of nanofluid flow and heat transfer in straight ribbed microtube using single-phase and two-phase models for choosing the best conditions. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 701-720	4.1	35
136	Effects of nano-clay content, foaming temperature and foaming time on density and cell size of PVC matrix foam by presented Least Absolute Shrinkage and Selection Operator statistical regression via suitable experiments as a function of MMT content. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 537, 122637	3.3	10
135	Investigation of energy performance in a U-shaped evacuated solar tube collector using oxide added nanoparticles through the emitter, absorber and transmittal environments via discrete ordinates radiation method. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 2623-2631	4.1	83
134	Rheological behavior of hybrid MWCNTs-TiO2/EG nanofluid: A comprehensive modeling and experimental study. *Journal of Molecular Liquids*, **2020**, 308, 113058	6	61
133	Effects of new methods of porosity arrangement on forced convection in a variable BDPM using numerical simulation. *International Journal of Thermal Sciences*, **2019**, 146, 106004	4.1	8
132	Present a new multi objective optimization statistical Pareto frontier method composed of artificial neural network and multi objective genetic algorithm to improve the pipe flow hydrodynamic and thermal properties such as pressure drop and heat transfer coefficient for non-Newtonian binary fluids. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122409	3.3	24
131	A novel nonlinear regression model of SVR as a substitute for ANN to predict conductivity of MWCNT-CuO/water hybrid nanofluid based on empirical data. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 521, 89-97	3.3	95
130	A novel sensitivity analysis model of EANN for F-MWCNTs□e3O4/EG nanofluid thermal conductivity: Outputs predicted analytically instead of numerically to more accuracy and less costs. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 521, 406-415	3.3	103
129	Effects of dispersed added Graphene Oxide-Silicon Carbide nanoparticles to present a statistical formulation for the mixture thermal properties. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 521, 98-112	3.3	34

128	Simulation of water/FMWCNT nanofluid forced convection in a microchannel filled with porous material under slip velocity and temperature jump boundary conditions. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2329-2349	4.5	36
127	Lattice Boltzmann method to simulate convection heat transfer in a microchannel under heat flux. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 3371-3398	4.5	25
126	Providing a model for Csf according to pool boiling convection heat transfer of water/ferrous oxide nanofluid using sensitivity analysis. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2867-2881	4.5	25
125	Nonlinear function estimation fuzzy system (NFEFS) as a novel statistical approach to estimate nanofluids□thermal conductivity according to empirical data. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 3267-3281	4.5	14
124	Propose a new approach of fuzzy lookup table method to predict Al2O3/deionized water nanofluid thermal conductivity based on achieved empirical data. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 527, 121177	3.3	32
123	Investigation the atomic arrangement and stability of the fluid inside a rough nanochannel in both presence and absence of different roughness by using of accurate nano scale simulation. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 524, 639-660	3.3	20
122	Minimize pressure drop and maximize heat transfer coefficient by the new proposed multi-objective optimization/statistical model composed of □ANN + Genetic Algorithm□based on empirical data of CuO/paraffin nanofluid in a pipe. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 527, 121056	3.3	19
121	Experimental investigation toward obtaining nanoparticles' surficial interaction with basefluid components based on measuring thermal conductivity of nanofluids. *International Communications in Heat and Mass Transfer*, **2019**, 103, 72-82	5.8	39
120	Numerical assessment into the hydrothermal and entropy generation characteristics of biological water-silver nano-fluid in a wavy walled microchannel heat sink. *International Communications in Heat and Mass Transfer*, **2019**, 104, 118-126	5.8	65
119	A useful case study to develop lattice Boltzmann method performance: Gravity effects on slip velocity and temperature profiles of an air flow inside a microchannel under a constant heat flux boundary condition. *International Journal of Heat and Mass Transfer*, **2019**, 136, 1017-1029	4.9	38
118	Hybrid GMDH-type neural network to predict fluid surface tension, shear stress, dynamic viscosity & sensitivity analysis based on empirical data of iron(II) oxide nanoparticles in light crude oil mixture. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 526, 120948	3.3	15
117	Improve the thermal conductivity of 10w40-engine oil at various temperature by addition of Al2O3/Fe2O3 nanoparticles. *Journal of Molecular Liquids*, **2019**, 283, 660-666	6	49
116	Experimental investigation toward obtaining a new correlation for viscosity of WO3 and Al2O3 nanoparticles-loaded nanofluid within aqueous and non-aqueous basefluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 135, 713-728	4.1	35
115	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122456	3.3	28
114	Effects of the laser parameters on the mechanical properties and microstructure of weld joint in dissimilar pulsed laser welding of AISI 304 and AISI 420. *Infrared Physics and Technology*, **2019**, 103, 103081	2.7	24
113	A novel comprehensive experimental study concerned graphene oxide nanoparticles dispersed in water: Synthesise, characterisation, thermal conductivity measurement and present a new approach of RLSF neural network. *International Communications in Heat and Mass Transfer*, **2019**,	5.8	50
112	Improve the performance of lattice Boltzmann method for a porous nanoscale transient flow by provide a new modified relaxation time equation. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122453	3.3	13
111	Mixed Convection in Lid-Driven Cavity with Inclined Magnetic Field **2019**, 48, 451-471		6

110	A 3-D numerical simulation of non-Newtonian blood flow through femoral artery bifurcation with a moderate arteriosclerosis: investigating Newtonian/non-Newtonian flow and its effects on elastic vessel walls. *Heat and Mass Transfer*, **2019**, 55, 2037-2047	2.2	24
109	Numerical study of natural convection of nanofluid in a semi-circular cavity with lattice Boltzmann method. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2625-2637	4.5	9
108	Numerical simulation of forced convection in a bi-disperse porous medium channel by creating new porous micro-channels inside the porous macro-blocks. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 4142-4166	4.5	5
107	Three dimensional numerical simulation of polymer electrolyte membrane fuel cell. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 427-451	4.5	1
106	A new method of black-box fuzzy system identification optimized by genetic algorithm and its application to predict mixture thermal properties. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2485-2499	4.5	11
105	Turbulent flows in a spiral double-pipe heat exchanger. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 39-53	4.5	59
104	Effects of magnetic field on micro cross jet injection of dispersed nanoparticles in a microchannel. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 2683-2704	4.5	75
103	Hydrodynamic and thermal flow in nanochannel to study effects of roughness by estimation the atoms positions via MD method. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 30, 452-467	4.5	4
102	Effects of cobalt ferrite coated with silica nanocomposite on the thermal conductivity of an antifreeze: New nanofluid for refrigeration condensers. *International Journal of Refrigeration*, **2019**, 102, 86-95	3.8	39
101	Develop 24 dissimilar ANNs by suitable architectures & training algorithms via sensitivity analysis to better statistical presentation: Measure MSEs between targets & ANN for Fe□uO/Eg□Water nanofluid. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 519, 159-168	3.3	92
100	Increase lattice Boltzmann method ability to simulate slip flow regimes with dispersed CNTs nanoadditives inside. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 229-243	4.1	27
99	Simulation the effects of cross-flow injection on the slip velocity and temperature domain of a nanofluid flow inside a microchannel. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 1546-1562	4.5	18
98	A novel comprehensive experimental study concerned synthesizes and prepare liquid paraffin-Fe3O4 mixture to develop models for both thermal conductivity & viscosity: A new approach of GMDH type of neural network. *International Journal of Heat and Mass Transfer*, **2019**, 131, 432-441	4.9	108
97	Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 1045-1058	4.1	78
96	Investigation of free convection heat transfer and entropy generation of nanofluid flow inside a cavity affected by magnetic field and thermal radiation. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 997-1019	4.1	102
95	The evaluation on a new non-Newtonian hybrid mixture composed of TiO2/ZnO/EG to present a statistical approach of power law for its rheological and thermal properties. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 516, 1-18	3.3	54
94	Slip velocity and temperature jump of a non-Newtonian nanofluid, aqueous solution of carboxy-methyl cellulose/aluminum oxide nanoparticles, through a microtube. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2019**, 29, 1606-1628	4.5	32
93	Molecular dynamics simulation of fluid flow passing through a nanochannel: Effects of geometric shape of roughnesses. *Journal of Molecular Liquids*, **2019**, 275, 192-203	6	56

92	Modeling different structures in perturbed Poiseuille flow in a nanochannel by using of molecular dynamics simulation: Study the equilibrium. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 515, 13-30	3.3	58
91	Effects of nanoparticles to present a statistical model for the viscosity of MgO-Water nanofluid. *Powder Technology*, **2019**, 342, 166-180	5.2	99
90	Discrete ordinates simulation of radiative participating nanofluid natural convection in an enclosure. *Journal of Thermal Analysis and Calorimetry*, **2018**, 134, 2183-2195	4.1	16
89	Present a multi-criteria modeling and optimization (energy, economic and environmental) approach of industrial combined cooling heating and power (CCHP) generation systems using the genetic algorithm, case study: A tile factory. *Energy*, **2018**, 149, 286-295	7.9	37
88	Investigation of permeability and porosity effects on the slip velocity and convection heat transfer rate of Fe3O4/water nanofluid flow in a microchannel while its lower half filled by a porous medium. *International Journal of Heat and Mass Transfer*, **2018**, 119, 891-906	4.9	57
87	A new correlation for estimating the thermal conductivity and dynamic viscosity of CuO/liquid paraffin nanofluid using neural network method. *International Communications in Heat and Mass Transfer*, **2018**, 92, 90-99	5.8	74
86	The study of heat transfer and laminar flow of kerosene/multi-walled carbon nanotubes (MWCNTs) nanofluid in the microchannel heat sink with slip boundary condition. *Journal of Thermal Analysis and Calorimetry*, **2018**, 131, 1553-1566	4.1	103
85	Experimental investigation of the effects of temperature and mass fraction on the dynamic viscosity of CuO-paraffin nanofluid. *Applied Thermal Engineering*, **2018**, 128, 189-197	5.8	59
84	Develop the lattice Boltzmann method to simulate the slip velocity and temperature domain of buoyancy forces of FMWCNT nanoparticles in water through a micro flow imposed to the specified heat flux. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 509, 729-745	3.3	71
83	The investigation of thermal radiation and free convection heat transfer mechanisms of nanofluid inside a shallow cavity by lattice Boltzmann method. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 509, 515-535	3.3	133
82	Electro- and thermophysical properties of water-based nanofluids containing copper ferrite nanoparticles coated with silica: Experimental data, modeling through enhanced ANN and curve fitting. *International Journal of Heat and Mass Transfer*, **2018**, 127, 925-935	4.9	98
81	Effects of geometric parameters on the performance of solar chimney power plants. *Energy*, **2018**, 162, 1052-1061	7.9	78
80	Nano scale lattice Boltzmann method to simulate the mixed convection heat transfer of air in a lid-driven cavity with an endothermic obstacle inside. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 508, 681-701	3.3	48
79	NUMERICAL INVESTIGATION OF MIXED CONVECTION OF SiO2-WATER NANOFLUIDS WITHIN AN INCLINED DOUBLE LIDS-DRIVEN CAVITY. *Heat Transfer Research*, **2018**, 49, 949-964	3.9	3
78	Investigation into the effects of slip boundary condition on nanofluid flow in a double-layer microchannel. *Journal of Thermal Analysis and Calorimetry*, **2018**, 131, 2975-2991	4.1	97
77	Investigation of permeability effect on slip velocity and temperature jump boundary conditions for FMWNT/Water nanofluid flow and heat transfer inside a microchannel filled by a porous media. *Physica E: Low-Dimensional Systems and Nanostructures*, **2018**, 97, 226-238	3	68
76	Numerical investigation of the pseudopotential lattice Boltzmann modeling of liquid□vapor for multi-phase flows. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 489, 65-77	3.3	57
75	Numerical investigation of heat transfer in a power-law non-Newtonian fluid in a C-Shaped cavity with magnetic field effect using finite difference lattice Boltzmann method. *Computers and Fluids*, **2018**, 176, 51-67	2.8	105

74	Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles mass fraction, temperature and basefluids types to develop a correlation. *Meccanica*, **2018**, 53, 3739-3757	2.1	42
73	Synthesized CuFe2O4/SiO2 nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN. *International Journal of Heat and Mass Transfer*, **2018**, 127, 1169-1179	4.9	117
72	Develop the nano scale method of lattice Boltzmann to predict the fluid flow and heat transfer of air in the inclined lid driven cavity with a large heat source inside, Two case studies: Pure natural convection & mixed convection. *Physica A: Statistical Mechanics and Its Applications*, **2018**, 509, 210-233	3.3	70
71	Non-Fourier Boundary Conditions Effects on the Skin Tissue Temperature Response. *Heat Transfer - Asian Research*, **2017**, 46, 29-48	2.8	5
70	A numerical study of natural convection in a vertical annulus filled with gallium in the presence of magnetic field. *Journal of Magnetism and Magnetic Materials*, **2017**, 430, 22-28	2.8	110
69	An experimental study on rheological behavior of ethylene glycol based nanofluid: Proposing a new correlation as a function of silica concentration and temperature. *Journal of Molecular Liquids*, **2017** , 233, 352-357	6	87
68	Developing a new correlation to estimate the thermal conductivity of MWCNT-CuO/water hybrid nanofluid via an experimental investigation. *Journal of Thermal Analysis and Calorimetry*, **2017**, 129, 859-867	4.1	168
67	An experimental study on heat transfer and pressure drop of water/graphene oxide nanofluid in a copper tube under air cross-flow: Applicable as a heat exchanger. *Applied Thermal Engineering*, **2017**, 125, 69-79	5.8	86
66	Influence of T-semi attached rib on turbulent flow and heat transfer parameters of a silver-water nanofluid with different volume fractions in a three-dimensional trapezoidal microchannel. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 88, 60-76	3	154
65	A novel case study for thermal radiation through a nanofluid as a semitransparent medium via discrete ordinates method to consider the absorption and scattering of nanoparticles along the radiation beams coupled with natural convection. *International Communications in Heat and Mass Transfer*, **2017**, 87, 256-269	5.8	22
64	Empirical analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regime through an isothermal pipe. *Applied Thermal Engineering*, **2017**, 126, 538-547	5.8	85
63	Provide a suitable range to include the thermal creeping effect on slip velocity and temperature jump of an air flow in a nanochannel by lattice Boltzmann method. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 85, 143-151	3	18
62	The effects of different nano particles of Al2O3 and Ag on the MHD nano fluid flow and heat transfer in a microchannel including slip velocity and temperature jump. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 86, 146-153	3	133
61	Fluid flow and heat transfer of non-Newtonian nanofluid in a microtube considering slip velocity and temperature jump boundary conditions. *European Journal of Mechanics, B/Fluids*, **2017**, 61, 25-32	2.4	118
60	The effect of velocity and dimension of solid nanoparticles on heat transfer in non-Newtonian nanofluid. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 86, 68-75	3	138
59	Different nano-particles volume fraction and Hartmann number effects on flow and heat transfer of water-silver nanofluid under the variable heat flux. *Physica E: Low-Dimensional Systems and Nanostructures*, **2017**, 85, 271-279	3	22
58	Experimental Investigation on a Thermal Model for a Basin Solar Still with an External Reflector. *Energies*, **2017**, 10, 18	3.1	42
57	Numerical Simulation of MHD Fluid Flow inside Constricted Channels using Lattice Boltzmann Method. *Journal of Applied Fluid Mechanics*, **2017**, 10, 1639-1648	1.5	10

56	The effects of porosity and permeability on fluid flow and heat transfer of multi walled carbon nano-tubes suspended in oil (MWCNT/Oil nano-fluid) in a microchannel filled with a porous medium. *Physica E: Low-Dimensional Systems and Nanostructures*, **2016**, 84, 423-433	3	21
55	Investigation of rib's height effect on heat transfer and flow parameters of laminar water-Al 2 O 3 nanofluid in a rib-microchannel. *Applied Mathematics and Computation*, **2016**, 290, 135-153	2.7	195
54	An experimental study on rheological behavior of hybrid nanofluids made of iron and copper oxide in a binary mixture of water and ethylene glycol: Non-Newtonian behavior. *Experimental Thermal and Fluid Science*, **2016**, 79, 231-237	3	127
53	The variations of heat transfer and slip velocity of FMWNT-water nano-fluid along the micro-channel in the lack and presence of a magnetic field. *Physica E: Low-Dimensional Systems and Nanostructures*, **2016**, 84, 474-481	3	80
52	A three-dimensional lattice Boltzmann model for numerical investigation of bubble growth in pool boiling. *International Communications in Heat and Mass Transfer*, **2016**, 79, 58-66	5.8	49
51	Developing the laminar MHD forced convection flow of water/FMWNT carbon nanotubes in a microchannel imposed the uniform heat flux. *Journal of Magnetism and Magnetic Materials*, **2016**, 419, 420-428	2.8	86
50	An experimental study on thermal conductivity of F-MWCNTs-Fe 3 O 4 /EG hybrid nanofluid: Effects of temperature and concentration. *International Communications in Heat and Mass Transfer*, **2016**, 76, 171-177	5.8	246
49	Magnetic field effects on the slip velocity and temperature jump of nanofluid forced convection in a microchannel. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2016**, 230, 1921-1936	1.3	16
48	Effects of temperature and concentration on the viscosity of nanofluids made of single-wall carbon nanotubes in ethylene glycol. *International Communications in Heat and Mass Transfer*, **2016**, 74, 108-113	5.8	131
47	A joint lattice Boltzmann and molecular dynamics investigation for thermohydraulical simulation of nano flows through porous media. *European Journal of Mechanics, B/Fluids*, **2016**, 55, 15-23	2.4	12
46	Effect of Magnetic Field on Mixed Convection Heat Transfer in a Lid-Driven Square Cavity. *Journal of Thermodynamics*, **2016**, 2016, 1-14		18
45	Experimental study of the effect of solid volume fraction and Reynolds number on heat transfer coefficient and pressure drop of CuO-Water nanofluid. *Experimental Thermal and Fluid Science*, **2016**, 76, 342-351	3	135
44	Numerical simulation of heat transfer and turbulent flow of water nanofluids copper oxide in rectangular microchannel with semi-attached rib. *Advances in Mechanical Engineering*, **2016**, 8, 1687814016641017	1.2	107
43	Natural convection of Al2O3-water nanofluid in an inclined enclosure with the effects of slip velocity mechanisms: Brownian motion and thermophoresis phenomenon. *International Journal of Thermal Sciences*, **2016**, 105, 137-158	4.1	87
42	Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties. *International Journal of Heat and Mass Transfer*, **2015**, 85, 656-666	4.9	84
41	Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids. *International Journal of Heat and Mass Transfer*, **2015**, 89, 783-791	4.9	85
40	Magneto-natural convection in square cavities with a source-sink pair on different walls. *International Journal of Applied Electromagnetics and Mechanics*, **2015**, 47, 21-32	0.4	76
39	An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol. *International Communications in Heat and Mass Transfer*, **2015**, 67, 173-175	5.8	104

38	Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium. *International Journal of Heat and Mass Transfer*, **2015**, 90, 418-426	4.9	88
37	Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model. *Powder Technology*, **2015**, 284, 336-343	5.2	103
36	Thermal conductivity of Cu/TiO2 water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. *International Communications in Heat and Mass Transfer*, **2015**, 66, 100-104	5.8	280
35	Experimental determination of thermal conductivity and dynamic viscosity of Ag MgO/water hybrid nanofluid. *International Communications in Heat and Mass Transfer*, **2015**, 66, 189-195	5.8	355
34	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG water nanofluid. *International Communications in Heat and Mass Transfer*, **2015**, 65, 47-51	5.8	96
33	Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods. *Journal of Thermal Analysis and Calorimetry*, **2015**, 121, 1273-1278	4.1	115
32	Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids. *International Communications in Heat and Mass Transfer*, **2015**, 66, 172-179	5.8	163
31	Experimental study on thermal conductivity of DWCNT-ZnO/water-EG nanofluids. *International Communications in Heat and Mass Transfer*, **2015**, 68, 248-251	5.8	144
30	Mixed convection in a lid-driven cavity with an inside hot obstacle filled by an Al2O3 water nanofluid. *Journal of Applied Mechanics and Technical Physics*, **2015**, 56, 443-453	0.6	38
29	Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition. *International Communications in Heat and Mass Transfer*, **2015**, 68, 69-77	5.8	125
28	Modeling and estimation of thermal conductivity of MgO water/EG (60:40) by artificial neural network and correlation. *International Communications in Heat and Mass Transfer*, **2015**, 68, 98-103	5.8	91
27	Lattice Boltzmann method with heat flux boundary condition applied to mixed convection in inclined lid driven cavity. *Meccanica*, **2015**, 50, 945-962	2.1	22
26	Mandatory and Self-citation; Types, Reasons, Their Benefits and Disadvantages. *Science and Engineering Ethics*, **2015**, 21, 1581-5	3.1	13
25	Fully developed forced convection of alumina/water nanofluid inside microchannels with asymmetric heating. *Powder Technology*, **2015**, 269, 520-531	5.2	56
24	Simulation of copper water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method. *European Journal of Mechanics, B/Fluids*, **2015**, 49, 89-99	2.4	209
23	Natural convection of liquid metal in a horizontal cylindrical annulus under radial magnetic field. *International Journal of Applied Electromagnetics and Mechanics*, **2015**, 49, 453-461	0.4	25
22	Simulation of copper water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method with heat flux boundary condition. *Journal of Physics: Conference Series*, **2015**, 655, 012029	0.3	4
21	Studying the Effect of Indentation on Flow Parameters and Slow Heat Transfer of Water-Silver Nano-Fluid with Varying Volume Fraction in a Rectangular Two-Dimensional Micro Channel. *Indian Journal of Science and Technology*, **2015**, 8,	1	42

20	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al2O3 nanoparticles. *International Journal of Heat and Mass Transfer*, **2015**, 88, 728-734	4.9	155
19	Impact of ribs on flow parameters and laminar heat transfer of water□luminum oxide nanofluid with different nanoparticle volume fractions in a three-dimensional rectangular microchannel. *Advances in Mechanical Engineering*, **2015**, 7, 168781401561815	1.2	77
18	New correlation for Nusselt number of nanofluid with Ag / Al2O3 / Cu nanoparticles in a microchannel considering slip velocity and temperature jump by using lattice Boltzmann method. *International Journal of Thermal Sciences*, **2015**, 91, 146-156	4.1	114
17	Thermal conductivity and viscosity of Mg(OH)2-ethylene glycol nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2015**, 120, 1145-1149	4.1	96
16	Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods. *International Communications in Heat and Mass Transfer*, **2015**, 63, 35-40	5.8	116
15	Mixed convection of copper□water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method. *Physica A: Statistical Mechanics and Its Applications*, **2014**, 402, 150-168	3.3	235
14	Investigation of micro- and nanosized particle erosion in a 90□pipe bend using a two-phase discrete phase model. *Scientific World Journal, The*, **2014**, 2014, 740578	2.2	88
13	Numerical study of entropy generation due to coupled laminar and turbulent mixed convection and thermal radiation in an enclosure filled with a semitransparent medium. *Scientific World Journal, The*, **2014**, 2014, 761745	2.2	71
12	Comparison of the Finite Volume and Lattice Boltzmann Methods for Solving Natural Convection Heat Transfer Problems inside Cavities and Enclosures. *Abstract and Applied Analysis*, **2014**, 2014, 1-15	0.7	59
11	Mixed convection in inclined lid driven cavity by Lattice Boltzmann Method and heat flux boundary condition. *Journal of Physics: Conference Series*, **2014**, 547, 012031	0.3	4
10	EFFECT OF NANOFLUID VARIABLE PROPERTIES ON MIXED CONVECTION FLOW AND HEAT TRANSFER IN AN INCLINED TWO-SIDED LID-DRIVEN CAVITY WITH SINUSOIDAL HEATING ON SIDEWALLS. *Heat Transfer Research*, **2014**, 45, 409-432	3.9	67
9	MIXED-CONVECTION FLOW IN A LID-DRIVEN SQUARE CAVITY FILLED WITH A NANOFLUID WITH VARIABLE PROPERTIES: EFFECT OF THE NANOPARTICLE DIAMETER AND OF THE POSITION OF A HOT OBSTACLE. *Heat Transfer Research*, **2014**, 45, 563-578	3.9	54
8	Using Nanofluid in Lid Driven Shallow Enclosure at Particular Richardson Number: Investigation the Effect of Velocity Ratio. *Indian Journal of Science and Technology*, **2014**, 4, 698-704	1	3
7	NUMERICAL SIMULATION OF NATURAL CONVECTION AROUND AN OBSTACLE PLACED IN AN ENCLOSURE FILLED WITH DIFFERENT TYPE OF NANOFLUID. *Heat Transfer Research*, **2013**,	3.9	5
6	Investigation of the gravity effects on the mixed convection heat transfer in a microchannel using lattice Boltzmann method. *International Journal of Thermal Sciences*, **2012**, 54, 142-152	4.1	73
5	Modeling of Fluid Flow and Heat Transfer in Laser Welding with a Moving Heat Source. *Advanced Materials Research*, **2012**, 622-623, 618-622	0.5	0
4	Numerical investigation of turbulence mixed convection heat transfer of water and drilling mud inside a square enclosure by finite volume method **2012**,		6
3	Economic evaluation of utilization of electro-feed water pump and turbo-feed water pump and compare them in a 12.5-megawatts steam unit thermal cycle and provide the optimum solution **2012**,		2

2	Periodic mixed convection of a nanofluid in a cavity with top lid sinusoidal motion. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2011**, 225, 2149-2160	1.3	28
1	Develop Boltzmann equation to simulate non-Newtonian magneto-hydrodynamic nanofluid flow using power law magnetic Reynolds number. *Mathematical Methods in the Applied Sciences*,	2.3	5