

# Davood Toghraie

## List of Publications by Year in Descending Order

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

439  
papers

14,450  
citations

78  
h-index

103  
g-index

457  
ext. papers

17,880  
ext. citations

4.5  
avg, IF

7.93  
L-index

#	Paper	IF	Citations
439	An analytical and statistical review of selected researches in the field of estimation of rheological behavior of nanofluids. <i>Powder Technology</i> , <b>2022</b> , 398, 117076	5.2	
438	A state of art review of the viscosity behavior of nano-lubricants containing MWCNT nanoparticles: Focusing on engine lubrication goals. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 346, 118264	6	
437	The computational investigation of thermal conductivity of 11S globulin protein for biological applications: Molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 346, 118267	6	3
436	Experimental Study of Rheological Behavior of MWCNT-ALO/SAE50 Hybrid Nanofluid to Provide the Best Nano-lubrication Conditions.. <i>Nanoscale Research Letters</i> , <b>2022</b> , 17, 4	5	1
435	Comparison of hybrid nano-lubricants containing MWCNT nanoparticles with different base oils and the same composition ratio to determine the optimal behavior of nano-lubricants based on experimental studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128446	5.1	1
434	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128503	5.1	1
433	Fabrication of tragacanthin gum-carboxymethyl chitosan bio-nanocomposite wound dressing with silver-titanium nanoparticles using freeze-drying method. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 279, 125770	4.4	10
432	Numerical investigation of nanofluid mixed convection in a T-shaped cavity by considering a thermal barrier. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 7393-7415	6.1	4
431	Heat and mass transfer analysis of natural convection in a liquid desiccant closed-loop system: The effect of heat source and heat sink temperature. <i>Energy Reports</i> , <b>2022</b> , 8, 1816-1828	4.6	0
430	Numerical study of the effect of solar radiation intensity on the performance of desalination still with Thermoelectric Cooling System (TEC) for hot and dry areas of Semnan. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 32, 101848	5.6	0
429	Comparative rheological study of hybrid nanofluids with different base fluids and the same composition ratio to select the best performance of nano-lubricants using response surface modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 641, 128543	5.1	2
428	Natural-forced cooling and Monte-Carlo multi-objective optimization of mechanical and thermal characteristics of a bipolar plate for use in a proton exchange membrane fuel cell. <i>Energy Reports</i> , <b>2022</b> , 8, 2747-2761	4.6	4
427	Experimental study and modeling the SiO <sub>2</sub> -MWCNT (30:70)/SAE40 hybrid nano-lubricant flow based on the response surface method to identify the optimal lubrication conditions. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 130, 105771	5.8	1
426	Investigation of mechanical properties of epoxy-containing Detda and Degba and graphene oxide nanosheet using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 347, 118392	6	2
425	A well-trained artificial neural network (ANN) using the trainlm algorithm for predicting the rheological behavior of water [Ethylene glycol/WO <sub>3</sub> ] [MWCNTs] nanofluid. <i>International Communications in Heat and Mass Transfer</i> , <b>2022</b> , 131, 105857	5.8	0
424	Heat transfer and hemodynamic analysis of systolic and diastolic hypertension on abdominal aortic thrombosis. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 30, 101738	5.6	1
423	Vibration and dynamic analysis of a cantilever sandwich microbeam integrated with piezoelectric layers based on strain gradient theory and surface effects. <i>Applied Mathematics and Computation</i> , <b>2022</b> , 419, 126867	2.7	0

422	Energy, exergy, environmental and economic analyzes (4E) and multi-objective optimization of a PEM fuel cell equipped with coolant channels. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 157, 112021	16.2	2
421	Economic cost and efficiency analysis of the employment of inserting rods with helical fins in a shell and tube heat exchanger under magnetic field and filled with nanofluid. <i>Ain Shams Engineering Journal</i> , <b>2022</b> , 13, 101651	4.4	2
420	Integrated long-term planning of conventional and renewable energy sources in Iran's off-grid networks. <i>Renewable Energy</i> , <b>2022</b> , 182, 134-162	8.1	1
419	Simulation of deformation and decomposition of droplets exposed to electro-hydrodynamic flow in a porous media by lattice Boltzmann method. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 631-646	6.1	2
418	Experimental study and sensitivity analysis of a new generation of special ternary hybrid nanofluids (THNFs) and investigation of factors affecting its thermal conductivity. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 101940	5.6	0
417	A Comprehensive Correlation to Predict the Rheological Behavior of different Hybrid Nano-Lubricants: A Novel Statistical Analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 128886	5.1	
416	Statistical review of studies on the estimation of thermophysical properties of nanofluids using artificial neural network (ANN). <i>Powder Technology</i> , <b>2022</b> , 400, 117210	5.2	2
415	Molecular dynamics simulation of friction process in atomic structures with spherical nanoparticles. <i>Solid State Communications</i> , <b>2022</b> , 346, 114717	1.6	2
414	Pareto multi-objective optimization of tandem cold rolling settings for reductions and inter stand tensions using NSGA-II.. <i>ISA Transactions</i> , <b>2022</b> ,	5.5	2
413	Investigation of the friction process between metal structures in the presence of nanoparticles in terms of contact angles and the number of atomic layers using the molecular dynamics simulation. <i>European Physical Journal Plus</i> , <b>2022</b> , 137, 1	3.1	
412	Heat transfer in a square cavity filled by nanofluid with sinusoidal wavy walls at different wavelengths and amplitudes. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 101970	5.6	1
411	Optimization of a high-temperature recuperator equipped with corrugated helical heat exchanger for improvement of thermal-hydraulic performance. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 33, 101956	5.6	0
410	Molecular dynamics simulation approach for discovering potential inhibitors against SARS-CoV-2: A structural review.. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 354, 118901	6	2
409	Molecular dynamics simulation of Polyacrylonitrile membrane performance in an aqueous environment for water purification. <i>Journal of Water Process Engineering</i> , <b>2022</b> , 47, 102678	6.7	0
408	Application of experimental and statistical methods in the study of rheology of MWCNT (25%)-TiO <sub>2</sub> (75%)/ SAE40 HNF to identify and use in the lubrication industry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 643, 128710	5.1	1
407	Fabrication and characterization of wollastonite-titanium porous scaffold for pharmaceutical application: Representative volume element simulation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2022</b> , 280, 115684	3.1	0
406	Investigation the effects of different nanoparticles on density and specific heat: Prediction using MLP artificial neural network and response surface methodology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 645, 128808	5.1	1
405	Numerical study of mixed convection and entropy generation of Water-Ag nanofluid filled semi-elliptic lid-driven cavity. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 8875-8896	6.1	2

404	Size effects on stability and bifurcation of nonlinear viscoelastic microcantilevers based on strain gradient. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2022</b> , 44, 1	2	
403	Molecular dynamics simulation the effect of initial pressure on the phase transition performance of coated AlH <sub>3</sub> nanoparticles in the presence of an oxygenated medium. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 119183	6	0
402	Prediction the dynamic viscosity of MWCNT-Al <sub>2</sub> O <sub>3</sub> (30:70)/ Oil 5W50 hybrid nano-lubricant using Principal Component Analysis (PCA) with Artificial Neural Network (ANN). <i>Egyptian Informatics Journal</i> , <b>2022</b> ,	3.1	1
401	Laboratory study and statistical analysis of 10W40 base oil fluid with MWCNT (40%)-TiO <sub>2</sub> (60%) nanoparticles to prepare a new hybrid nano-lubricant (HNL). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 129078	5.1	0
400	Numerical study of natural convection of nanofluid in a rectangular closed enclosure (RCE) affected by hot and cold flow in a two-layer microchannel. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2022</b> , 44, 1	2	0
399	Investigation of thermophysical properties of MWCNT-MgO (50,50)/10 W40 hybrid nanofluid by focusing on the rheological behavior: Sensitivity analysis and price-performance investigation. <i>Powder Technology</i> , <b>2022</b> , 117472	5.2	0
398	Numerical study of anomalous heat conduction in absorber plate of a solar collector using time-fractional single-phase-lag model. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 34, 102071	5.6	5
397	Application of artificial intelligence and using optimal ANN to predict the dynamic viscosity of Hybrid nano-lubricant containing Zinc Oxide in Commercial oil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 647, 129115	5.1	0
396	Measurement of thermal conductivity of triple hybrid water based nanofluid containing MWCNT (10%) - Al <sub>2</sub> O <sub>3</sub> (60%) - ZnO (30%) nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 647, 129083	5.1	0
395	Atomic coatings effects on the combustion of aluminium hydride nanoparticles dispersed in liquid oxygen: Molecular dynamics simulation for the oxygenated environments. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 359, 119283	6	0
394	Modifications in the physical structure of a new two-layer micro-size heat sink with sinusoidal shaped cavities for heat transfer augmentation of nanofluid flow. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 11019-11030	6.1	0
393	Molecular dynamics study of the thermal behavior of ammonia refrigerant in the presence of copper nanoparticles at different volume ratios and initial temperatures.. <i>Journal of Molecular Modeling</i> , <b>2022</b> , 28, 157	2	
392	The microchannel type effects on water-Fe <sub>3</sub> O <sub>4</sub> nanofluid atomic behavior: Molecular dynamics approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2022</b> , 135, 104396	5.3	7
391	Investigation of the effect of Berkovich and Cube Corner indentations on the mechanical behavior of fused silica using molecular dynamics and finite element simulation. <i>Ceramics International</i> , <b>2021</b> ,	5.1	1
390	Investigation the mechanical properties of a novel 3D multicomponent scaffold coated with a new bio-nanocomposite for bone tissue engineering: Fabrication, simulation and characterization. <i>Journal of Materials Research and Technology</i> , <b>2021</b> ,	5.5	6
389	Combustion process of nanofluids consisting of oxygen molecules and aluminum nanoparticles in a copper nanochannel using molecular dynamics simulation. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101628	5.6	17
388	Simulation of mixed-convection of water and nano-encapsulated phase change material inside a square cavity with a rotating hot cylinder. <i>Journal of Energy Storage</i> , <b>2021</b> , 103606	7.8	8
387	A multi-objective optimization of a building's total heating and cooling loads and total costs in various climatic situations using response surface methodology. <i>Energy Reports</i> , <b>2021</b> , 7, 7520-7538	4.6	0

386	Heat transfer and entropy generation analysis of water-Fe <sub>3</sub> O <sub>4</sub> /CNT hybrid magnetic nanofluid flow in a trapezoidal wavy enclosure containing porous media with the Galerkin finite element method. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	15
385	The effects of geometric shapes at different assembly gaps to achieve the optimal hydrodynamic conditions. <i>Renewable Energy</i> , <b>2021</b> , 184, 452-452	8.1	0
384	The Computational Study of Microchannel Thickness Effects on H <sub>2</sub> O/CuO Nanofluid Flow with Molecular Dynamics Simulations. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 345, 118240	6	14
383	Thermal behavior of water base-fluid in the presence of graphene nanosheets and carbon nanotubes: A molecular dynamics simulation. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 28, 101669	5.6	0
382	The effect of different parameters on ability of the proposed correlations for the rheological behavior of SiO <sub>2</sub> -MWCNT (90:10)/SAE40 oil-based hybrid nano-lubricant and presenting five new correlations. <i>ISA Transactions</i> , <b>2021</b> ,	5.5	3
381	Comprehensive investigations of mixed convection of Fe-ethylene-glycol nanofluid inside an enclosure with different obstacles using lattice Boltzmann method. <i>Scientific Reports</i> , <b>2021</b> , 11, 20710	4.9	13
380	Numerical investigation of mixed convection of nanofluid flow in oblique rectangular microchannels with nanofluid jet injection. <i>European Physical Journal Plus</i> , <b>2021</b> , 136,	3.1	2
379	The improvement of mechanical properties of conventional concretes using carbon nanoparticles using molecular dynamics simulation. <i>Scientific Reports</i> , <b>2021</b> , 11, 20265	4.9	3
378	Experimental investigation of machinability in laser-assisted machining of aluminum-based nanocomposites. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 3481-3491	5.5	1
377	Feasibility study of using MWCNT-TiO <sub>2</sub> (25:75) in 5W50 as an optimizer for engine oils with the aim of reduce the cold start damages. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 129, 105678	5.8	
376	The effects of external force and electrical field on the agglomeration of Fe <sub>3</sub> O <sub>4</sub> nanoparticles in electroosmotic flows in microchannels using molecular dynamics simulation. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 122, 105182	5.8	5
375	The thermal properties of water-copper nanofluid in the presence of surfactant molecules using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 115149	6	12
374	Numerical study of fast transient non-diffusive heat conduction in a porous medium composed of solid-glass spheres and air using fractional Cattaneo subdiffusion model. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 122, 105192	5.8	6
373	Self-healing polymers using electrosprayed microcapsules containing oil: Molecular dynamics simulation and experimental studies. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 115182	6	14
372	The atomic interactions between Histone and 3LPT protein using an equilibrium molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 328, 115397	6	2
371	Investigation of Porosity and Permeability of Resin Flow Inside the Mold with Woven Carbon Fibers: Numerical and Experimental Approaches. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 2269-2280	2	0
370	Investigation of dynamical behavior of 3LPT protein - water molecules interactions in atomic structures using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 329, 115615	6	7
369	Investigation on the effect of functionalization of single-walled carbon nanotubes on the mechanical properties of epoxy glass composites: Experimental and molecular dynamics simulation. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 1931-1945	5.5	18

368	Two-phase analysis of heat transfer and entropy generation of water-based magnetite nanofluid flow in a circular microtube with twisted porous blocks under a uniform magnetic field. <i>Powder Technology</i> , <b>2021</b> , 384, 522-541	5.2	13
367	Embedding multiple conical vanes inside a circular porous channel filled by two-phase nanofluid to improve thermal performance considering entropy generation. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 124, 105209	5.8	9
366	Numerical investigation of mixed convection of nanofluid flow in a trapezoidal channel with different aspect ratios in the presence of porous medium. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 25, 100977	5.6	26
365	Thermo-hydraulic investigation of Al <sub>2</sub> O <sub>3</sub> /water nanofluid flow in an oval tube fitted with dual conical twisted-tape inserts: parametric studies. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	2
364	Energy cost and efficiency analysis of greenhouse heating system enhancement using phase change material: An experimental study. <i>Renewable Energy</i> , <b>2021</b> , 170, 133-140	8.1	11
363	Numerical analysis of flow and heat transfer in an elliptical duct fitted with two rotating twisted tapes. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 125, 105328	5.8	3
362	Thermal performance and entropy generation for nanofluid jet injection on a ribbed microchannel with oscillating heat flux: Investigation of the first and second laws of thermodynamics. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> ,	3.2	1
361	Numerical analysis for thermal-hydraulic characteristics and the laminar two-phase nanofluid flow inside a tube equipped with helically twisted tapes as swirl and turbulence promoters. <i>Scientific Reports</i> , <b>2021</b> , 11, 12228	4.9	1
360	The molecular dynamics study of boron-nitride nanosheet roughness after atomic bombardment process. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 331, 115733	6	2
359	A comprehensive experimental investigation of dynamic viscosity of MWCNT-WO <sub>3</sub> /water-ethylene glycol antifreeze hybrid nanofluid. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 333, 115986	6	12
358	Investigation of Ferro-nanofluid flow within a porous ribbed microchannel heat sink using single-phase and two-phase approaches in the presence of constant magnetic field. <i>Powder Technology</i> , <b>2021</b> , 387, 251-260	5.2	5
357	Numerical study of mixed convection of nanofluid inside an inlet/outlet inclined cavity under the effect of Brownian motion using Lattice Boltzmann Method (LBM). <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105428	5.8	5
356	Molecular dynamics simulation of argon flow in large scale within different microchannels under phase change condition. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105337	5.8	4
355	On the optimization of a vertical twisted tape arrangement in a channel subjected to MWCNT/water nanofluid by coupling numerical simulation and genetic algorithm. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 189-201	4.1	11
354	Numerical study on the effects of geometrical parameters and Reynolds number on the heat transfer behavior of carboxy-methyl cellulose/CuO non-Newtonian nanofluid inside a rectangular microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 179-187	4.1	6
353	Comparative study of mixed convection heat transfer of water/Cu nanofluid in an enclosure having multiple rotating circular cylinders with different configurations and considering harmonic cylinders rotation. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1557-1570	4.1	2
352	Numerical investigation of heat and mass transfer of water/silver nanofluid in a spiral heat exchanger using a two-phase mixture method. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1003-1012	4.1	6
351	Mixed Convection in a Ventilated Enclosure by Considering Both Geometrical Parameters and Thermo-Physical Properties of Water/Cu Nanofluid. <i>Journal of Thermal Science</i> , <b>2021</b> , 30, 950-961	1.9	1

350	Application of rotating circular obstacles in improving ferrofluid heat transfer in an enclosure saturated with porous medium subjected to a magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 145, 3301-3323	4.1	17
349	Mixed thermomagnetic convection of ferrofluid in a porous cavity equipped with rotating cylinders: LTE and LTNE models. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 146, 187-226	4.1	17
348	Numerical simulation of transient mixed convection of water-Cu nanofluid in a square cavity with multiple rotating cylinders having harmonic motion. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 4229-4248	4.1	7
347	Predict the thermal conductivity of SiO <sub>2</sub> /water-Ethylene glycol (50:50) hybrid nanofluid using artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 1119-1128	4.1	16
346	Measurement of the thermal conductivity of MWCNT-CuO/water hybrid nanofluid using artificial neural networks (ANNs). <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 1097-1105	4.1	57
345	Thermal performance of a helical shell and tube heat exchanger without fin, with circular fins, and with V-shaped circular fins applying on the coil. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 4273-4285	4.1	9
344	Hydrothermal and entropy generation specifications of a hybrid ferronanofluid in microchannel heat sink embedded in CPUs. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 32, 27-38	3.2	5
343	Finding susceptible areas for a 50 MW solar thermal power plant using 4E analysis and multiobjective optimization. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 1761-1782	4.1	4
342	Atomic interactions between rock substrate and water-sand mixture with and without graphene nanosheets via molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 323, 114610	6	3
341	Boiling of Argon flow in a microchannel by considering the spherical geometry for roughness barriers using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 321, 114462	6	3
340	The effect of magnetic field on the twisted porous ribs with various porous layers and pitches: The first and second laws of thermodynamics study with two-phase approach. <i>Powder Technology</i> , <b>2021</b> , 380, 475-485	5.2	3
339	Molecular dynamics simulation of the thermal properties of the Cu-water nanofluid on a roughed Platinum surface: Simulation of phase transition in nanofluids. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 327, 114832	6	8
338	Experimental study on thermophysical properties of water-based nanoemulsion of n-eicosane PCM. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 321, 114760	6	16
337	Molecular dynamics simulation concerning nanofluid boiling phenomenon affected by the external electric field: Effects of number of nanoparticles through Pt, Fe, and Au microchannels. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 324, 114775	6	6
336	Free convection of non-Newtonian nanofluid flow inside an eccentric annulus from the point of view of first-law and second-law of thermodynamics. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , <b>2021</b> , 101, e202000266	1	8
335	Analysis of entropy generation of ferrofluid flow in the microchannel with twisted porous ribs: The two-phase investigation with various porous layers. <i>Powder Technology</i> , <b>2021</b> , 380, 349-357	5.2	6
334	Effects of micro-combustor geometry and size on the heat transfer and combustion characteristics of premixed hydrogen/air flames. <i>Energy</i> , <b>2021</b> , 215, 119061	7.9	15
333	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. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 293-308	4.1	4

332	Direct effect of nanoparticles on the thermal conductivity of CuO-water nanofluid in a phase transition phenomenon using molecular dynamics simulation. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 144, 2483	4.1	0
331	Lateral buckling analysis of nanotubes and nanorings under uniform external pressure: a closed-form nonlocal solution. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	0
330	Out-of-plane dynamic instability of nonlocal shear deformable nanoplates made of polyvinylidene fluoride materials subjected to electromechanical forces. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	2
329	The thermal performance of five different viscosity models in the kidney blood vessel with multi-phase mixture of non-Newtonian fluid models using computational fluid dynamics. <i>Archive of Applied Mechanics</i> , <b>2021</b> , 91, 1887-1895	2.2	4
328	Coating the magnesium implants with reinforced nanocomposite nanoparticles for use in orthopedic applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 621, 126581	5.1	10
327	Molecular dynamics simulation of condensation phenomenon of nanofluid on different roughness surfaces in the presence of hydrophilic and hydrophobic structures. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 334, 116036	6	6
326	CFD simulation of time-dependent oxygen production in a manifold electrolyzer using a two-phase model. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105446	5.8	3
325	Applying Artificial Neural Networks (ANNs) for prediction of the thermal characteristics of engine oil Based nanofluids containing tungsten oxide -MWCNTs. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101122	5.6	4
324	A well-trained artificial neural network for predicting the rheological behavior of MWCNT-ALO (30-70%)/oil SAE40 hybrid nanofluid. <i>Scientific Reports</i> , <b>2021</b> , 11, 17696	4.9	3
323	Using perceptron feed-forward Artificial Neural Network (ANN) for predicting the thermal conductivity of graphene oxide-Al <sub>2</sub> O <sub>3</sub> /water-ethylene glycol hybrid nanofluid. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 26, 101055	5.6	12
322	Investigation of vibrational manner of carbon nanotubes in the vicinity of ultrasonic argon flow using molecular dynamics simulation. <i>Scientific Reports</i> , <b>2021</b> , 11, 16912	4.9	
321	Numerical investigation of the effect of a porous block and flow injection using non-Newtonian nanofluid on heat transfer and entropy generation in a microchannel with hydrophobic walls. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	1
320	An optimal feed-forward artificial neural network model and a new empirical correlation for prediction of the relative viscosity of ALO-engine oil nanofluid. <i>Scientific Reports</i> , <b>2021</b> , 11, 17072	4.9	1
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189	Thermo-hydraulic and economic optimization of Iranol refinery oil heat exchanger with Copper oxide nanoparticles using MOMBO. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 540, 123010	3.3	20

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181	Heat transfer enhancement of ferrofluid flow within a wavy channel by applying a non-uniform magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 3331-3343	4.1	23
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150	Numerical investigation of turbulent flow and heat transfer in flat tube. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 3471-3483	4.1	20
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122	Impact of variable fluid properties on forced convection of Fe <sub>3</sub> O <sub>4</sub> /CNT/water hybrid nanofluid in a double-pipe mini-channel heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 1031-1043	4.1	90
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63	The effect of semi-attached and offset mid-truncated ribs and Water/TiO <sub>2</sub> nanofluid on flow and heat transfer properties in a triangular microchannel. <i>Thermal Science and Engineering Progress</i> , <b>2017</b> , 2, 140-150	3.6	86

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38	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 202-208	5.8	127
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