

Davood Toghraie

List of Publications by Year in descending order

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453
papers

20,990
citations

3151

92
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18115

120
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457
all docs

457
docs citations

457
times ranked

5801
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of thermal conductivity of ZnO-TiO ₂ /EG hybrid nanofluid. Journal of Thermal Analysis and Calorimetry, 2016, 125, 527-535.	2.0	312
2	Effects of temperature and nanoparticles concentration on rheological behavior of Fe ₃ O ₄ -Ag/EG hybrid nanofluid: An experimental study. Experimental Thermal and Fluid Science, 2016, 77, 38-44.	1.5	309
3	An experimental study on the effect of diameter on thermal conductivity and dynamic viscosity of Fe/water nanofluids. Journal of Thermal Analysis and Calorimetry, 2015, 119, 1817-1824.	2.0	265
4	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.	1.2	263
5	Experimental study on thermal conductivity of water-based Fe ₃ O ₄ nanofluid: Development of a new correlation and modeled by artificial neural network. International Communications in Heat and Mass Transfer, 2016, 75, 262-269.	2.9	241
6	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.	1.4	217
7	A new correlation for predicting the thermal conductivity of ZnO-Ag (50%-50%)/water hybrid nanofluid: An experimental study. Powder Technology, 2018, 323, 367-373.	2.1	217
8	Thermal conductivity modeling of MgO/EG nanofluids using experimental data and artificial neural network. Journal of Thermal Analysis and Calorimetry, 2014, 118, 287-294.	2.0	210
9	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO ₂ (20%-80%)-SAE40 hybrid nano-lubricant. International Communications in Heat and Mass Transfer, 2016, 76, 133-138.	2.9	203
10	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.	2.0	194
11	Designing an artificial neural network to predict dynamic viscosity of aqueous nanofluid of TiO ₂ using experimental data. International Communications in Heat and Mass Transfer, 2016, 75, 192-196.	2.9	191
12	Energy and exergy analysis of Montazeri Steam Power Plant in Iran. Renewable and Sustainable Energy Reviews, 2016, 56, 454-463.	8.2	189
13	Examination of rheological behavior of MWCNTs/ZnO-SAE40 hybrid nano-lubricants under various temperatures and solid volume fractions. Experimental Thermal and Fluid Science, 2017, 80, 384-390.	1.5	178
14	Experimental determination of viscosity of water based magnetite nanofluid for application in heating and cooling systems. Journal of Magnetism and Magnetic Materials, 2016, 417, 243-248.	1.0	172
15	An experimental study on the stability and thermal conductivity of water-ethylene glycol/TiO ₂ -MWCNTs hybrid nanofluid: Developing a new correlation. Powder Technology, 2018, 338, 806-818.	2.1	168
16	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.	1.3	167
17	The numerical modeling of water/FMWCNT nanofluid flow and heat transfer in a backward-facing contracting channel. Physica B: Condensed Matter, 2018, 537, 176-183.	1.3	167
18	Experimental investigation of rheological behavior of the hybrid nanofluid of MWCNT-alumina/water (80%)-ethylene-glycol (20%). Journal of Thermal Analysis and Calorimetry, 2018, 132, 1001-1015.	2.0	167

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19	Developing dissimilar artificial neural networks (ANNs) to prediction the thermal conductivity of MWCNT-TiO ₂ /Water-ethylene glycol hybrid nanofluid. Powder Technology, 2019, 355, 602-610.	2.1	162
20	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.	1.5	161
21	The effect of aspect ratios of rib on the heat transfer and laminar water/TiO ₂ nanofluid flow in a two-dimensional rectangular microchannel. Journal of Molecular Liquids, 2017, 236, 254-265.	2.3	156
22	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.	1.3	154
23	Statistical investigation for developing a new model for rheological behavior of ZnO-Ag (50%-50%)/Water hybrid Newtonian nanofluid using experimental data. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 741-751.	1.2	150
24	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.	1.2	143
25	Experimental evaluation of dynamic viscosity of ZnO-MWCNTs/engine oil hybrid nanolubricant based on changes in temperature and concentration. Journal of Thermal Analysis and Calorimetry, 2019, 136, 513-525.	2.0	143
26	Statistical investigation for developing a new model for rheological behavior of Silica-ethylene glycol/Water hybrid Newtonian nanofluid using experimental data. Physica A: Statistical Mechanics and Its Applications, 2019, 525, 616-627.	1.2	140
27	Estimation of thermal conductivity of Al ₂ O ₃ /water (40%)ðylene glycol (60%) by artificial neural network and correlation using experimental data. International Communications in Heat and Mass Transfer, 2016, 74, 125-128.	2.9	139
28	MHD mixed convection and entropy generation in a lid-driven cavity with rotating cylinders filled by a nanofluid using two phase mixture model. Journal of Magnetism and Magnetic Materials, 2019, 483, 224-248.	1.0	136
29	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. International Communications in Heat and Mass Transfer, 2016, 76, 202-208.	2.9	135
30	Designing an Artificial Neural Network (ANN) to predict the viscosity of Silver/Ethylene glycol nanofluid at different temperatures and volume fraction of nanoparticles. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 1221-1242.	1.2	134
31	Multi-objective optimization of nanofluid flow in double tube heat exchangers for applications in energy systems. Energy, 2017, 137, 160-171.	4.5	128
32	Increasing heat transfer of non-Newtonian nanofluid in rectangular microchannel with triangular ribs. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 93, 167-178.	1.3	127
33	Numerical investigation of flow and heat transfer characteristics in smooth, sinusoidal and zigzag-shaped microchannel with and without nanofluid. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1757-1766.	2.0	127
34	Experimental and numerical investigation of temperature distribution and melt pool geometry during pulsed laser welding of Ti6Al4V alloy. Optics and Laser Technology, 2014, 59, 52-59.	2.2	126
35	Numerical investigation of laminar flow and heat transfer of non-Newtonian nanofluid within a porous medium. Powder Technology, 2018, 325, 78-91.	2.1	126
36	Application of a novel conical strip insert to improve the efficacy of water-Ag nanofluid for utilization in thermal systems: A two-phase simulation. Energy Conversion and Management, 2017, 151, 573-586.	4.4	125

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37	A comprehensive study of the performance of a heat pipe by using of various nanofluids. <i>Advanced Powder Technology</i> , 2017, 28, 3074-3084.	2.0	124
38	Effect of twisted-tape inserts and nanofluid on flow field and heat transfer characteristics in a tube. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104440.	2.9	124
39	Investigation of volume fraction of nanoparticles effect and aspect ratio of the twisted tape in the tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 1911-1922.	2.0	123
40	Impact of variable fluid properties on forced convection of Fe ₃ O ₄ /CNT/water hybrid nanofluid in a double-pipe mini-channel heat exchanger. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1031-1043.	2.0	123
41	An experimental study on MWCNTs-water nanofluids flow and heat transfer in double-pipe heat exchanger using porous media. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1797-1807.	2.0	122
42	Experimental measurements of thermal conductivity of engine oil-based hybrid and mono nanofluids with tungsten oxide (WO ₃) and MWCNTs inclusions. <i>Powder Technology</i> , 2020, 371, 37-44.	2.1	122
43	Numerical simulation of heat transfer and fluid flow of Water-CuO Nanofluid in a sinusoidal channel with a porous medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 87, 134-140.	1.3	120
44	The numerical investigation of heat transfer and pressure drop of turbulent flow in a triangular microchannel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 179-189.	1.3	120
45	Mixed convection of non-Newtonian nanofluid in an H-shaped cavity with cooler and heater cylinders filled by a porous material: Two phase approach. <i>Advanced Powder Technology</i> , 2019, 30, 2666-2685.	2.0	120
46	Effects of nanoparticles to present a statistical model for the viscosity of MgO-Water nanofluid. <i>Powder Technology</i> , 2019, 342, 166-180.	2.1	120
47	A numerical study of natural convection in a vertical annulus filled with gallium in the presence of magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 430, 22-28.	1.0	119
48	Experimental investigation for developing a new model for the thermal conductivity of Silica/Water-Ethylene glycol (40%–60%) nanofluid at different temperatures and solid volume fractions. <i>Journal of Molecular Liquids</i> , 2017, 232, 105-112.	2.3	119
49	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. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1553-1566.	2.0	118
50	Free convection heat transfer and entropy generation analysis of water-Fe ₃ O ₄ /CNT hybrid nanofluid in a concentric annulus. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 915-934.	1.6	118
51	Molecular dynamic simulation of Copper and Platinum nanoparticles Poiseuille flow in a nanochannels. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 152-161.	1.3	117
52	Numerical simulation of heat transfer enhancement in a plate-fin heat exchanger using a new type of vortex generators. <i>Applied Thermal Engineering</i> , 2018, 133, 671-681.	3.0	117
53	Entropy generation analysis of different nanofluid flows in the space between two concentric horizontal pipes in the presence of magnetic field: Single-phase and two-phase approaches. <i>Computers and Mathematics With Applications</i> , 2019, 77, 662-692.	1.4	117
54	An experimental study on rheological behavior of a nanofluid containing oxide nanoparticle and proposing a new correlation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 99, 285-293.	1.3	116

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55	Numerical simulation of heat transfer and turbulent flow of water nanofluids copper oxide in rectangular microchannel with semi-attached rib. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401664101.	0.8	115
56	An experimental study on the thermal conductivity of cerium oxide/ethylene glycol nanofluid: developing a new correlation. <i>Journal of Molecular Liquids</i> , 2018, 266, 211-217.	2.3	114
57	Effects of geometric parameters on the performance of solar chimney power plants. <i>Energy</i> , 2018, 162, 1052-1061.	4.5	113
58	Experimental investigation and develop ANNs by introducing the suitable architectures and training algorithms supported by sensitivity analysis: Measure thermal conductivity and viscosity for liquid paraffin based nanofluid containing Al ₂ O ₃ nanoparticles. <i>Journal of Molecular Liquids</i> , 2019, 276, 850-860.	2.3	111
59	The numerical investigation of angle of attack of inclined rectangular rib on the turbulent heat transfer of Water-Al ₂ O ₃ nanofluid in a tube. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 1106-1116.	3.6	110
60	An experimental study on the rheological behavior of hybrid Tungsten oxide (WO ₃)-MWCNTs/engine oil Newtonian nanofluids. <i>Journal of Molecular Structure</i> , 2019, 1197, 497-507.	1.8	110
61	Molecular dynamics simulation of fluid flow passing through a nanochannel: Effects of geometric shape of roughnesses. <i>Journal of Molecular Liquids</i> , 2019, 275, 192-203.	2.3	110
62	Numerical investigation of turbulent flow and heat transfer of nanofluid inside a wavy microchannel with different wavelengths. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2365-2380.	2.0	110
63	Energy efficiency optimization of the waste heat recovery system with embedded phase change materials in greenhouses: A thermo-economic-environmental study. <i>Journal of Energy Storage</i> , 2020, 30, 101445.	3.9	109
64	Numerical thermal analysis of water's boiling heat transfer based on a turbulent jet impingement on heated surface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 454-465.	1.3	108
65	Simultaneous investigations the effects of non-Newtonian nanofluid flow in different volume fractions of solid nanoparticles with slip and no-slip boundary conditions. <i>Thermal Science and Engineering Progress</i> , 2018, 5, 263-277.	1.3	108
66	Turbulent flow and heat transfer of Water/Al ₂ O ₃ nanofluid inside a rectangular ribbed channel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 96, 73-84.	1.3	108
67	CFD analysis of thermal and hydrodynamic characteristics of hybrid nanofluid in a new designed sinusoidal double-layered microchannel heat sink. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2305-2315.	2.0	108
68	Melting process in porous media around two hot cylinders: Numerical study using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 316-335.	1.2	107
69	Numerical study of turbulent nanofluid heat transfer in a tubular heat exchanger with twin twisted-tape inserts. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 741-759.	2.0	106
70	Mixed convection of Water-Aluminum oxide nanofluid in an inclined lid-driven cavity containing a hot elliptical centric cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 1237-1249.	2.5	106
71	Using of Artificial Neural Networks (ANNs) to predict the thermal conductivity of Zinc Oxide-Silver (50%-50%)/Water hybrid Newtonian nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104645.	2.9	106
72	Solar parallel feed water heating repowering of a steam power plant: A case study in Iran. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 474-485.	8.2	105

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73	Modeling different structures in perturbed Poiseuille flow in a nanochannel by using of molecular dynamics simulation: Study the equilibrium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 515, 13-30.	1.2	105
74	Experimental investigation for developing a new model for the dynamic viscosity of silver/ethylene glycol nanofluid at different temperatures and solid volume fractions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 1449-1461.	2.0	104
75	Investigation into the effects of slip boundary condition on nanofluid flow in a double-layer microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 131, 2975-2991.	2.0	104
76	Heat and fluid flow analysis of metal foam embedded in a double-layered sinusoidal heat sink under local thermal non-equilibrium condition using nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1461-1476.	2.0	104
77	Measurement of the thermal conductivity of MWCNT-CuO/water hybrid nanofluid using artificial neural networks (ANNs). <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1097-1105.	2.0	104
78	Using artificial neural network to predict thermal conductivity of ethylene glycol with alumina nanoparticle. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 643-648.	2.0	103
79	The effect of geometrical parameters, roughness and the number of nanoparticles on the self-diffusion coefficient in Couette flow in a nanochannel by using of molecular dynamics simulation. <i>Physica B: Condensed Matter</i> , 2017, 518, 20-32.	1.3	103
80	Molecular dynamics study of an electro-kinetic fluid transport in a charged nanochannel based on the role of the stern layer. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2015, 426, 25-34.	1.2	102
81	Designing artificial neural network on thermal conductivity of Al ₂ O ₃ -water-EG (60-40%) nanofluid using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 126, 837-843.	2.0	102
82	Effect of radiation on laminar natural convection of nanofluid in a vertical channel with single- and two-phase approaches. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 779-794.	2.0	101
83	A comprehensive experimental investigation of thermal conductivity of a ternary hybrid nanofluid containing MWCNTs- titania-zinc oxide/water-ethylene glycol (80:20) as well as binary and mono nanofluids. <i>Synthetic Metals</i> , 2020, 268, 116501.	2.1	101
84	The investigation of simultaneous heat transfer of water/Al ₂ O ₃ nanofluid in a close enclosure by applying homogeneous magnetic field. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 674-688.	3.6	100
85	Numerical simulation of laminar forced convection of water-CuO nanofluid inside a triangular duct. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 85, 103-108.	1.3	100
86	The effect of using water/CuO nanofluid and L-shaped porous ribs on the performance evaluation criterion of microchannels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 145-159.	2.0	100
87	Molecular dynamics simulation of Poiseuille flow in a rough nano channel with checker surface roughnesses geometry. <i>Heat and Mass Transfer</i> , 2014, 50, 105-113.	1.2	99
88	The effects of surface roughness geometry of flow undergoing Poiseuille flow by molecular dynamics simulation. <i>Heat and Mass Transfer</i> , 2014, 50, 95-104.	1.2	99
89	Two-phase investigation of water-Al ₂ O ₃ nanofluid in a micro concentric annulus under non-uniform heat flux boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 1795-1814.	1.6	99
90	Molecular dynamics simulation of annular flow boiling with the modified Lennard-Jones potential function. <i>Heat and Mass Transfer</i> , 2012, 48, 141-152.	1.2	98

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91	The surface charge density effect on the electro-osmotic flow in a nanochannel: a molecular dynamics study. <i>Heat and Mass Transfer</i> , 2015, 51, 661-670.	1.2	98
92	Molecular dynamics simulation of liquid-vapor phase equilibrium by using the modified Lennard-Jones potential function. <i>Heat and Mass Transfer</i> , 2010, 46, 287-294.	1.2	97
93	The effect of semi-attached and offset mid-truncated ribs and Water/TiO ₂ nanofluid on flow and heat transfer properties in a triangular microchannel. <i>Thermal Science and Engineering Progress</i> , 2017, 2, 140-150.	1.3	95
94	Computational fluid dynamics simulation of heat transfer and fluid flow characteristics in a vortex tube by considering the various parameters. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 432-443.	2.5	95
95	Parametric investigation of thermal characteristic in trapezoidal cavity receiver for a linear Fresnel solar collector concentrator. <i>Energy</i> , 2018, 153, 17-26.	4.5	95
96	Molecular dynamics simulation of nonodroplets with the modified Lennard-Jones potential function. <i>Heat and Mass Transfer</i> , 2011, 47, 579-588.	1.2	94
97	Numerical investigation of the pseudopotential lattice Boltzmann modeling of liquid-vapor for multi-phase flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 489, 65-77.	1.2	94
98	Investigation of finned heat sink performance with nano enhanced phase change material (NePCM). <i>Thermal Science and Engineering Progress</i> , 2018, 5, 50-59.	1.3	93
99	The effect of rib shape on the behavior of laminar flow of oil/MWCNT nanofluid in a rectangular microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1611-1628.	2.0	93
100	Nanoscale Poiseuille flow and effects of modified Lennard-Jones potential function. <i>Heat and Mass Transfer</i> , 2010, 46, 791-801.	1.2	92
101	Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1045-1058.	2.0	91
102	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550052.	1.3	90
103	Evaluation of synchronous execution of full repowering and solar assisting in a 200 MW steam power plant, a case study. <i>Applied Thermal Engineering</i> , 2017, 112, 111-123.	3.0	90
104	The rheological behavior of MWCNTs-ZnO/Water-Ethylene glycol hybrid non-Newtonian nanofluid by using of an experimental investigation. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8401-8406.	2.6	90
105	Impact of ribs on flow parameters and laminar heat transfer of water-aluminum oxide nanofluid with different nanoparticle volume fractions in a three-dimensional rectangular microchannel. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401561815.	0.8	86
106	Longitudinal vibration and instabilities of carbon nanotubes conveying fluid considering size effects of nanoflow and nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 164-173.	1.3	85
107	ANALYSIS OF LAMINAR MIXED CONVECTION IN AN INCLINED SQUARE LID-DRIVEN CAVITY WITH A NANOFUID BY USING AN ARTIFICIAL NEURAL NETWORK. <i>Heat Transfer Research</i> , 2014, 45, 361-390.	0.9	84
108	Molecular dynamics simulation of Couette and Poiseuille Water-Copper nanofluid flows in rough and smooth nanochannels with different roughness configurations. <i>Chemical Physics</i> , 2019, 527, 110505.	0.9	80

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109	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. <i>Heat Transfer Research</i> , 2014, 45, 409-432.	0.9	80
110	Longitudinal vibration and stability analysis of carbon nanotubes conveying viscous fluid. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 275-283.	1.3	79
111	Molecular dynamic simulation to study the effects of roughness elements with cone geometry on the boiling flow inside a microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 1-8.	2.5	78
112	Thermal performance improvement in water nanofluid/GNP+SDBS in novel design of double-layer microchannel heat sink with sinusoidal cavities and rectangular ribs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1333-1345.	2.0	76
113	Prediction of boiling flow characteristics in rough and smooth microchannels using molecular dynamics simulation: Investigation the effects of boundary wall temperatures. <i>Journal of Molecular Liquids</i> , 2020, 306, 112937.	2.3	75
114	Two phase natural convection and thermal radiation of Non-Newtonian nanofluid in a porous cavity considering inclined cavity and size of inside cylinders. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104285.	2.9	71
115	Using perceptron feed-forward Artificial Neural Network (ANN) for predicting the thermal conductivity of graphene oxide-Al ₂ O ₃ /water-ethylene glycol hybrid nanofluid. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101055.	2.8	71
116	Energy, exergy and environmental (3E) analysis of the existing CHP system in a petrochemical plant. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 99, 234-242.	8.2	70
117	Investigation of thermal properties of DNA structure with precise atomic arrangement via equilibrium and non-equilibrium molecular dynamics approaches. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 185, 105169.	2.6	70
118	Nano scale lattice Boltzmann method to simulate the mixed convection heat transfer of air in a lid-driven cavity with an endothermic obstacle inside. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 508, 681-701.	1.2	67
119	Investigating the effect of nanoparticles diameter on turbulent flow and heat transfer properties of non-Newtonian carboxymethyl cellulose/CuO fluid in a microtube. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1699-1723.	1.6	66
120	Efficiency improvement of a steam power plant through solar repowering. <i>International Journal of Exergy</i> , 2017, 22, 158.	0.2	64
121	The molecular dynamics simulation of thermal manner of Ar/Cu nanofluid flow: The effects of spherical barriers size. <i>Journal of Molecular Liquids</i> , 2020, 319, 114183.	2.3	62
122	An experimental investigation for study the rheological behavior of water+carbon nanotube/magnetite nanofluid subjected to a magnetic field. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 534, 122129.	1.2	60
123	Molecular dynamics simulation of Water-Copper nanofluid flow in a three-dimensional nanochannel with different types of surface roughness geometry for energy economic management. <i>Journal of Molecular Liquids</i> , 2020, 311, 113222.	2.3	57
124	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> , 2021, 12, 1931-1945.	2.6	56
125	Heat transfer and entropy generation analysis of water-Fe ₃ O ₄ /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> , 2021, 136, 1.	1.2	55
126	Fabrication of tragacanthin gum-carboxymethyl chitosan bio-nanocomposite wound dressing with silver-titanium nanoparticles using freeze-drying method. <i>Materials Chemistry and Physics</i> , 2022, 279, 125770.	2.0	55

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127	Comprehensive simulation of nanofluid flow and heat transfer in straight ribbed microtube using single-phase and two-phase models for choosing the best conditions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 701-720.	2.0	54
128	Effect of solid surface structure on the condensation flow of Argon in rough nanochannels with different roughness geometries using molecular dynamics simulation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104741.	2.9	54
129	Molecular dynamics simulation of Doxorubicin loading with N-isopropyl acrylamide carbon nanotube in a drug delivery system. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 184, 105303.	2.6	53
130	Dynamic stability of functionally graded nanobeam based on nonlocal Timoshenko theory considering surface effects. <i>Physica B: Condensed Matter</i> , 2017, 520, 97-105.	1.3	52
131	Fabrication of shapeless scaffolds reinforced with baghdadite-magnetite nanoparticles using a 3D printer and freeze-drying technique. <i>Journal of Materials Research and Technology</i> , 2021, 14, 3070-3079.	2.6	52
132	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> , 2022, 157, 112021.	8.2	51
133	Application of lattice Boltzmann method and spinodal decomposition phenomenon for simulating two-phase thermal flows. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 509, 673-689.	1.2	50
134	Effects of multi inlet guide channels on the performance of a cyclone separator. <i>Powder Technology</i> , 2019, 356, 353-372.	2.1	50
135	Heat transfer enhancement in a counter-flow sinusoidal parallel-plate heat exchanger partially filled with porous media using metal foam in the channels' divergent sections. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1669-1685.	2.0	50
136	Removal of hexavalent chromium from aqueous media using pomegranate peels modified by polymeric coatings: Effects of various composite synthesis parameters. <i>Synthetic Metals</i> , 2020, 265, 116416.	2.1	50
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