

Mohammad Hemmat Esfe

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.

211
papers

11,320
citations

73
h-index

101
g-index

218
ext. papers

12,603
ext. citations

4.3
avg, IF

7.42
L-index

#	Paper	IF	Citations
211	Experimental Study of Rheological Behavior of MWCNT-ALO/SAE50 Hybrid Nanofluid to Provide the Best Nano-lubrication Conditions.. <i>Nanoscale Research Letters</i> , 2022 , 17, 4	5	1
210	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> , 2022 , 128446	5.1	1
209	Laboratory and Statistical Evaluations of Rheological Behaviour of MWCNT-Al ₂ O ₃ (20:80)/Oil SAE50 Non-Newtonian Nano-lubricants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 641, 128503	5.1	1
208	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> , 2022 , 641, 128543	5.1	2
207	Experimental study and modeling the SiO ₂ -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> , 2022 , 130, 105771	5.8	1
206	Effect of capillary pressure parameter and volume fraction of nanoparticles on EOR process in a 3D geometry. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 131, 105762	5.8	1
205	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> , 2022 , 101940	5.6	0
204	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> , 2022 , 128886	5.1	
203	Statistical review of studies on the estimation of thermophysical properties of nanofluids using artificial neural network (ANN). <i>Powder Technology</i> , 2022 , 400, 117210	5.2	2
202	A comparative study of rheological behavior in hybrid nano-lubricants (HNLs) with the same composition/nanoparticle ratio characteristics and different base oils to select the most suitable lubricant in industrial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 643, 128658	5.1	1
201	Application of experimental and statistical methods in the study of rheology of MWCNT (25%)-TiO ₂ (75%)/SAE40 HNF to identify and use in the lubrication industry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 643, 128710	5.1	1
200	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> , 2022 , 645, 128808	5.1	1
199	Laboratory study and statistical analysis of 10W40 base oil fluid with MWCNT (40%)-TiO ₂ (60%) nanoparticles to prepare a new hybrid nano-lubricant (HNL). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 129078	5.1	0
198	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> , 2022 , 117472	5.2	0
197	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> , 2022 , 647, 129115	5.1	0
196	Measurement of thermal conductivity of triple hybrid water based nanofluid containing MWCNT (10%) - Al ₂ O ₃ (60%) - ZnO (30%) nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 647, 129083	5.1	0
195	Application of nanofluids in combustion engines with focusing on improving heat transfer process 2022 , 303-339		0

194	The effect of different parameters on ability of the proposed correlations for the rheological behavior of SiO ₂ -MWCNT (90:10)/SAE40 oil-based hybrid nano-lubricant and presenting five new correlations. <i>ISA Transactions</i> , 2021 ,	5.5	3
193	Viscosity modeling of nano-modified SAE50 engine oil using RSM and ANN methods. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 128, 105542	5.8	1
192	Feasibility study of using MWCNT-TiO ₂ (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> , 2021 , 129, 105678	5.8	
191	Preliminary feasibility study on using a nano-composition in enhanced oil recovery process: neural network modeling. <i>Neural Computing and Applications</i> , 2021 , 33, 10111-10127	4.8	
190	Thermophysical optimization of ND/PG-water nanofluids by NSGA-II coupled with RSM and ANN. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
189	Employing response surface methodology and neural network to accurately model thermal conductivity of TiO ₂ /water nanofluid using experimental data. <i>Chinese Journal of Physics</i> , 2021 , 70, 14-25	3.5	9
188	Comparative thermal analysis of an EG-based nanofluid containing DWCNTs. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	
187	Experimental investigation of thermo-physical properties of MgO-MWCNT (75:25)/10W40 as a new nano-lubricant. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	0
186	An experimental report and new correlation for estimating the dynamic viscosity of MWCNT(50)-ZnO(50)/SAE 50 as nano-lubricant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 1107-1117	4.1	5
185	Optimization of Viscosity in MWCNT-MgO (35:65)/5W50 Nanofluid and Comparison of Experimental Results with the Designed ANN. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 827-840	2.5	3
184	Modeling and Precise Prediction of Thermophysical Attributes of Water/EG Blend-Based CNT Nanofluids by NSGA-II Using ANN and RSM. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6423-6437	2.5	4
183	A critical review on pulsating flow in conventional fluids and nanofluids: Thermo-hydraulic characteristics. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 104859	5.8	12
182	Viscosity Analysis of MWCNT(25%)ZnO(75%)/10W40 Hybrid Nanofluid; Toward a New Look at Finding Efficient Nanofluid for Heat Transfer Goals. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 5957-5968	2.5	1
181	Optimization and modeling of thermal conductivity and viscosity of Cu/engine oil nanofluids by NSGA-II using RSM. <i>Mathematical Methods in the Applied Sciences</i> , 2021 , 44, 7799-7810	2.3	4
180	Optimization, modeling, and prediction of relative viscosity and relative thermal conductivity of AlN nano-powders suspended in EG. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	2
179	A well-trained artificial neural network for predicting the rheological behavior of MWCNT-AlO (30-70%)/oil SAE40 hybrid nanofluid. <i>Scientific Reports</i> , 2021 , 11, 17696	4.9	3
178	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> , 2021 , 11, 17072	4.9	1
177	Cascade forward Artificial Neural Network to estimate thermal conductivity of functionalized graphene-water nanofluids. <i>Case Studies in Thermal Engineering</i> , 2021 , 26, 101194	5.6	2

176	Simulation of the impact of solar radiation intensity on the performance of economical solar water desalination still in Semnan province. <i>Case Studies in Thermal Engineering</i> , 2021 , 101471	5.6	3
175	Thermal conductivity of ethylene glycol based nanofluids containing hybrid nanoparticles of SWCNT and Fe ₃ O ₄ and its price-performance analysis for energy management. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1754-1760	5.5	5
174	Using radial basis function network to model the heat transfer and pressure drop of water based nanofluids containing MgO nanoparticles. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101475	5.6	1
173	Numerical simulation of water production from humid air: Investigation of the Peltier effect (thermoelectric cooling system) on water production rate. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101473	5.6	0
172	Analysis of rheological behavior of MWCNT-Al ₂ O ₃ (10:90)/5W50 hybrid non-Newtonian nanofluid with considering viscosity as a three-variable function. <i>Journal of Molecular Liquids</i> , 2021 , 341, 117375	6	7
171	Experimental study of rheological characteristics of MWCNT-Al ₂ O ₃ (40:60) / SAE50 hybrid nano-lubricant to identify optimal lubrication conditions and post-processing of results using the response surface method. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 2059-2074	5.5	4
170	Modeling and estimation of thermal performance factor of MgO-water nanofluids flow by artificial neural network based on experimental data. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101437	5.6	2
169	A new generation of hybrid-nanofluid: thermal properties enriched lubricant fluids with controlled viscosity amount. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	10
168	History and introduction 2020 , 1-48		2
167	Application of conventional and hybrid nanofluids in different machining processes: A critical review. <i>Advances in Colloid and Interface Science</i> , 2020 , 282, 102199	14.3	29
166	Experimental thermal analysis of a turbulent nano enriched water flow in a circular tube. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 124010	3.3	1
165	Application of nanofluids and fluids in photovoltaic thermal system: An updated review. <i>Solar Energy</i> , 2020 , 199, 796-818	6.8	58
164	Effect of MgO nanoparticles suspension on rheological behavior and a new correlation. <i>Journal of Molecular Liquids</i> , 2020 , 309, 112632	6	3
163	A 3D numerical study on natural convection flow of nanofluid inside a cubical cavity equipped with porous fins using two-phase mixture model. <i>Advanced Powder Technology</i> , 2020 , 31, 2480-2492	4.6	11
162	A comprehensive review on convective heat transfer of nanofluids in porous media: Energy-related and thermohydraulic characteristics. <i>Applied Thermal Engineering</i> , 2020 , 178, 115487	5.8	26
161	A review on fuel cell types and the application of nanofluid in their cooling. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 1633-1654	4.1	27
160	Investigation of the effects of various parameters on the natural convection of nanofluids in various cavities exposed to magnetic fields: a comprehensive review. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 2055-2075	4.1	10
159	Flooding numerical simulation of heterogeneous oil reservoir using different nanoscale colloidal solutions. <i>Journal of Molecular Liquids</i> , 2020 , 302, 111972	6	18

158	The statistical investigation of multi-grade oil based nanofluids: Enriched by MWCNT and ZnO nanoparticles. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 554, 122159	3.3	9
157	Rheological behavior characteristics of MWCNT-TiO ₂ /EG (40% 80%) hybrid nanofluid affected by temperature, concentration, and shear rate: An experimental and statistical study and a neural network simulating. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 553, 124061	3.3	10
156	Mathematical and artificial brain structure-based modeling of heat conductivity of water based nanofluid enriched by double wall carbon nanotubes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 540, 120766	3.3	8
155	3D numerical simulation of the enhanced oil recovery process using nanoscale colloidal solution flooding. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112094	6	21
154	Experimental evaluation of MWCNT-Al ₂ O ₃ (40% 80%)/5W50 hybrid nanofluid and comparison with MWCNT-Al ₂ O ₃ (35% 85%)/5W50 hybrid nanofluid with focus on thermophysical properties and cost performance index. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	4
153	Nanofluid flooding in a randomized heterogeneous porous media and investigating the effect of capillary pressure and diffusion on oil recovery factor. <i>Journal of Molecular Liquids</i> , 2020 , 320, 113646	6	19
152	Mathematical monitoring of agglomeration effects on thermophysical properties of water-based nanofluids using MLP and RSM. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 739	4.1	1
151	A two-phase simulation for investigating natural convection characteristics of nanofluid inside a perturbed enclosure filled with porous medium. <i>Engineering With Computers</i> , 2020 , 1	4.5	1
150	Nanofluid flooding for enhanced oil recovery in a heterogeneous two-dimensional anticline geometry. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 118, 104810	5.8	18
149	Multi-objective particle swarm optimization of thermal conductivity and dynamic viscosity of magnetic nanodiamond-cobalt oxide dispersed in ethylene glycol using RSM. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104760	5.8	4
148	Using a two-phase method for numerical natural convection simulation in a cavity containing multiwalled carbon nanotube/water. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 146, 757	4.1	2
147	Investigation on nanofluid flooding effect on enhancement oil recovery process in a random pore distribution incomplete cone. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104629	5.8	1
146	Viscosity analysis of enriched SAE50 by nanoparticles as lubricant of heavy-duty engines. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 79-93	4.1	7
145	Predicting thermophysical properties and flow characteristics of nanofluids using intelligent methods: focusing on ANN methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 501-525	4.1	15
144	Proposing a nano-approach to modify viscosity behavior of SAE 5W50 as light road vehicles lubricant. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 975-989	4.1	3
143	Statistical and artificial based optimization on thermo-physical properties of an oil based hybrid nanofluid using NSGA-II and RSM. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 537, 122126	3.3	14
142	Experimental investigation of effective parameters on MWCNT-TiO ₂ /SAE50 hybrid nanofluid viscosity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 743-757	4.1	24
141	An experimental investigation, sensitivity analysis and RSM analysis of MWCNT(10)-ZnO(90)/10W40 nanofluid viscosity. <i>Journal of Molecular Liquids</i> , 2019 , 288, 111020	6	29

140	An updated review on the nanofluids characteristics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 4091-4101	4.1	16
139	Effect of suspending optimized ratio of nano-additives MWCNT-Al ₂ O ₃ on viscosity behavior of 5W50. <i>Journal of Molecular Liquids</i> , 2019 , 285, 572-585	6	16
138	Mixed convection inside lid-driven cavities filled with nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 813-859	4.1	26
137	Evaluation of MWCNTs-ZnO/5W50 nanolubricant by design of an artificial neural network for predicting viscosity and its optimization. <i>Journal of Molecular Liquids</i> , 2019 , 277, 921-931	6	42
136	Optimizing thermophysical properties of nanofluids using response surface methodology and particle swarm optimization in a non-dominated sorting genetic algorithm. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 103, 7-19	5.3	20
135	Proposing a modified engine oil to reduce cold engine start damages and increase safety in high temperature operating conditions. <i>Powder Technology</i> , 2019 , 355, 251-263	5.2	50
134	Four objective optimization of aluminum nanoparticles/oil, focusing on thermo-physical properties optimization. <i>Powder Technology</i> , 2019 , 356, 832-846	5.2	13
133	Proposing new hybrid nano-engine oil for lubrication of internal combustion engines: Preventing cold start engine damages and saving energy. <i>Energy</i> , 2019 , 170, 228-238	7.9	75
132	Viscosity and rheological properties of antifreeze based nanofluid containing hybrid nano-powders of MWCNTs and TiO ₂ under different temperature conditions. <i>Powder Technology</i> , 2019 , 342, 808-816	5.2	82
131	Simultaneous effects of multi-walled carbon nanotubes and copper oxide nanoparticles on the rheological behavior of cooling oil: Application for refrigeration systems. <i>International Journal of Refrigeration</i> , 2019 , 104, 123-133	3.8	15
130	A novel applicable experimental study on the thermal behavior of SWCNTs(60%)-MgO(40%)/EG hybrid nanofluid by focusing on the thermal conductivity. <i>Powder Technology</i> , 2019 , 342, 998-1007	5.2	86
129	Rheological behavior of CuO/EG:W (20:80 v/v) nanofluid from a thermal perspective. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 61-72	4.1	16
128	On the evaluation of the dynamic viscosity of non-Newtonian oil based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 97-109	4.1	20
127	An experimental determination and accurate prediction of dynamic viscosity of MWCNT(%40)-SiO ₂ (%60)/5W50 nano-lubricant. <i>Journal of Molecular Liquids</i> , 2018 , 259, 227-237	6	51
126	A study on rheological characteristics of hybrid nano-lubricants containing MWCNT-TiO ₂ nanoparticles. <i>Journal of Molecular Liquids</i> , 2018 , 260, 229-236	6	54
125	Design of a heat exchanger working with organic nanofluids using multi-objective particle swarm optimization algorithm and response surface method. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 119, 922-930	4.9	57
124	A novel experimental investigation on the effect of nanoparticles composition on the rheological behavior of nano-hybrids. <i>Journal of Molecular Liquids</i> , 2018 , 269, 933-939	6	23
123	Prediction of rheological behavior of MWCNTs/SiO ₂ /EG/water non-Newtonian hybrid nanofluid by designing new correlations and optimal artificial neural networks. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 1029-1038	4.1	24

122	Rheological behavior characteristics of ZrO ₂ -MWCNT/10w40 hybrid nano-lubricant affected by temperature, concentration, and shear rate: An experimental study and a neural network simulating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 102, 160-170	3	52
121	Thermal conductivity of a hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 1113-1122	4.1	55
120	Prediction and optimization of thermophysical properties of stabilized Al ₂ O ₃ /antifreeze nanofluids using response surface methodology. <i>Journal of Molecular Liquids</i> , 2018 , 261, 14-20	6	46
119	Convective heat transfer and pressure drop of aqua based TiO ₂ nanofluids at different diameters of nanoparticles: Data analysis and modeling with artificial neural network. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 97, 155-161	3	46
118	Prediction of rheological behavior of SiO ₂ -MWCNTs/10W40 hybrid nanolubricant by designing neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2741-2748	4.1	83
117	A comparison of performance of several artificial intelligence methods for predicting the dynamic viscosity of TiO ₂ /SAE 50 nano-lubricant. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 96, 85-93	3	63
116	Price-performance evaluation of thermal conductivity enhancement of nanofluids with different particle sizes. <i>Applied Thermal Engineering</i> , 2018 , 128, 373-380	5.8	79
115	Experimental and theoretical investigation of thermal conductivity of ethylene glycol containing functionalized single walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 95, 71-77	3	50
114	Modeling of thermal conductivity of MWCNT-SiO ₂ (30:70%)/EG hybrid nanofluid, sensitivity analyzing and cost performance for industrial applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 1437-1447	4.1	126
113	Improving engine oil lubrication in light-duty vehicles by using of dispersing MWCNT and ZnO nanoparticles in 5W50 as viscosity index improvers (VII). <i>Applied Thermal Engineering</i> , 2018 , 143, 493-506	5.8	93
112	Effects of twisted tapes on thermal performance of tri-lobed tube: An applicable numerical study. <i>Applied Thermal Engineering</i> , 2018 , 144, 512-521	5.8	15
111	Optimization of MWCNTs (10%) [Al ₂ O ₃ (90%)]/5W50 nanofluid viscosity using experimental data and artificial neural network. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 512, 731-744	3.3	67
110	Experimental study for developing an accurate model to predict viscosity of CuO/ethylene glycol nanofluid using genetic algorithm based neural network. <i>Powder Technology</i> , 2018 , 338, 383-390	5.2	76
109	Thermal Conductivity Modeling of Aqueous CuO Nanofluids by Adaptive Neuro-Fuzzy Inference System (ANFIS) Using Experimental Data. <i>Periodica Polytechnica: Chemical Engineering</i> , 2018 , 62, 202	1.3	19
108	Development of a New Correlation and Post Processing of Heat Transfer Coefficient and Pressure Drop of Functionalized COOH MWCNT Nanofluid by Artificial Neural Network. <i>Current Nanoscience</i> , 2018 , 14, 104-112	1.4	27
107	Mixed convection of functionalized DWCNT-water nanofluid in baffled lid-driven cavities. <i>Thermal Science</i> , 2018 , 22, 2503-2514	1.2	3
106	A novel study on rheological behavior of ZnO-MWCNT/10w40 nanofluid for automotive engines. <i>Journal of Molecular Liquids</i> , 2018 , 254, 406-413	6	59
105	Investigation of rheological behavior of hybrid oil based nanolubricant-coolant applied in car engines and cooling equipments. <i>Applied Thermal Engineering</i> , 2018 , 131, 1026-1033	5.8	55

104	Experimental evaluation, new correlation proposing and ANN modeling of thermal properties of EG based hybrid nanofluid containing ZnO-DWCNT nanoparticles for internal combustion engines applications. <i>Applied Thermal Engineering</i> , 2018 , 133, 452-463	5.8	99
103	Experimental investigation and model development of the non-Newtonian behavior of CuO-MWCNT-10w40 hybrid nano-lubricant for lubrication purposes. <i>Journal of Molecular Liquids</i> , 2018 , 249, 677-687	6	87
102	ANN modeling, cost performance and sensitivity analyzing of thermal conductivity of DWCNT/BiO ₂ /EG hybrid nanofluid for higher heat transfer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2381-2393	4.1	93
101	Experimental study on rheological behavior of monograde heavy-duty engine oil containing CNTs and oxide nanoparticles with focus on viscosity analysis. <i>Journal of Molecular Liquids</i> , 2018 , 272, 319-329 ⁶		40
100	Optimization of thermophysical properties of Al ₂ O ₃ /water-EG (80:20) nanofluids by NSGA-II. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 103, 264-272	3	13
99	Modeling and prediction of rheological behavior of Al ₂ O ₃ -MWCNT/5W50 hybrid nano-lubricant by artificial neural network using experimental data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 510, 625-634	3.3	87
98	Using artificial neural network for investigating of concurrent effects of multi-walled carbon nanotubes and alumina nanoparticles on the viscosity of 10W-40 engine oil. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 510, 610-624	3.3	47
97	Examination of rheological behavior of MWCNTs/ZnO-SAE40 hybrid nano-lubricants under various temperatures and solid volume fractions. <i>Experimental Thermal and Fluid Science</i> , 2017 , 80, 384-390	3	154
96	Estimation of thermal conductivity of ethylene glycol-based nanofluid with hybrid suspensions of SWCNT/Al ₂ O ₃ nanoparticles by correlation and ANN methods using experimental data. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 1359-1371	4.1	112
95	Experimental investigation, model development and sensitivity analysis of rheological behavior of ZnO/10W40 nano-lubricants for automotive applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 90, 194-203	3	79
94	Numerical study of laminar-forced convection of Al ₂ O ₃ -water nanofluids between two parallel plates. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 785-796	1.6	12
93	Non-Newtonian power-law behavior of TiO ₂ /SAE 50 nano-lubricant: An experimental report and new correlation. <i>Journal of Molecular Liquids</i> , 2017 , 232, 219-225	6	52
92	An inspection of thermal conductivity of CuO-SWCNTs hybrid nanofluid versus temperature and concentration using experimental data, ANN modeling and new correlation. <i>Journal of Molecular Liquids</i> , 2017 , 231, 364-369	6	155
91	Experimental investigation on non-Newtonian behavior of Al ₂ O ₃ -MWCNT/5W50 hybrid nano-lubricant affected by alterations of temperature, concentration and shear rate for engine applications. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 82, 97-102	5.8	81
90	Thermal conductivity and viscosity optimization of nanodiamond-Co ₃ O ₄ /EG (40:60) aqueous nanofluid using NSGA-II coupled with RSM. <i>Journal of Molecular Liquids</i> , 2017 , 238, 545-552	6	91
89	Experimental evaluation, sensitivity analyzation and ANN modeling of thermal conductivity of ZnO-MWCNT/EG-water hybrid nanofluid for engineering applications. <i>Applied Thermal Engineering</i> , 2017 , 125, 673-685	5.8	136
88	Multi-objective optimization of nanofluid flow in double tube heat exchangers for applications in energy systems. <i>Energy</i> , 2017 , 137, 160-171	7.9	107
87	Experimental investigation of switchable behavior of CuO-MWCNT (85% \square 15%)/10W-40 hybrid nano-lubricants for applications in internal combustion engines. <i>Journal of Molecular Liquids</i> , 2017 , 242, 326-335	6	57

86	Evaluation of rheological behavior of 10W40 lubricant containing hybrid nano-material by measuring dynamic viscosity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 92, 47-54	3	96
85	Investigation of rheological behavior of MWCNT (COOH-functionalized)/MgO - Engine oil hybrid nanofluids and modelling the results with artificial neural networks. <i>Journal of Molecular Liquids</i> , 2017 , 241, 173-181	6	133
84	Effects of functionalized single walled carbon nanotubes on thermal performance of antifreeze: An experimental study on thermal conductivity. <i>Applied Thermal Engineering</i> , 2017 , 120, 358-366	5.8	84
83	An experimental evaluation of the effect of ZnO nanoparticles on the rheological behavior of engine oil. <i>Journal of Molecular Liquids</i> , 2017 , 236, 198-204	6	105
82	Three dimensional simulation of natural convection and entropy generation in an air and MWCNT/water nanofluid filled cuboid as two immiscible fluids with emphasis on the nanofluid height ratio's effects. <i>Journal of Molecular Liquids</i> , 2017 , 227, 223-233	6	76
81	Natural convection in T-shaped cavities filled with water-based suspensions of COOH-functionalized multi walled carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , 2017 , 121, 21-32	5.5	41
80	Empirical study and model development of thermal conductivity improvement and assessment of cost and sensitivity of EG-water based SWCNT-ZnO (30%:70%) hybrid nanofluid. <i>Journal of Molecular Liquids</i> , 2017 , 244, 252-261	6	82
79	Rheological behavior characteristics of TiO ₂ -MWCNT/10w40 hybrid nano-oil affected by temperature, concentration and shear rate: An experimental study and a neural network simulating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 231-240	3	90
78	Application of three-level general factorial design approach for thermal conductivity of MgO/water nanofluids. <i>Applied Thermal Engineering</i> , 2017 , 127, 1194-1199	5.8	79
77	Rheological characteristics of MgO/oil nanolubricants: Experimental study and neural network modeling. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 86, 245-252	5.8	84
76	Designing a neural network for predicting the heat transfer and pressure drop characteristics of Ag/water nanofluids in a heat exchanger. <i>Applied Thermal Engineering</i> , 2017 , 126, 559-565	5.8	64
75	Predicting the effects of magnesium oxide nanoparticles and temperature on the thermal conductivity of water using artificial neural network and experimental data. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 242-247	3	92
74	Thermal conductivity enhancement of SiO ₂ /MWCNT (85:15 %)EG hybrid nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 249-258	4.1	122
73	Multi-objective optimization of cost and thermal performance of double walled carbon nanotubes/water nanofluids by NSGA-II using response surface method. <i>Applied Thermal Engineering</i> , 2017 , 112, 1648-1657	5.8	84
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71	Designing an artificial neural network using radial basis function (RBF-ANN) to model thermal conductivity of ethylene glycol/water-based TiO ₂ nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 2125-2131	4.1	55
70	An applicable study on the thermal conductivity of SWCNT-MgO hybrid nanofluid and price-performance analysis for energy management. <i>Applied Thermal Engineering</i> , 2017 , 111, 1202-1210	5.8	176
69	The Investigation of Effects of Temperature and Nanoparticles Volume Fraction on the Viscosity of Copper Oxide-ethylene Glycol Nanofluids. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017 ,	1.3	6

68	An Inspection of Viscosity Models for Numerical Simulation of Natural Convection of Al ₂ O ₃ -Water Nanofluid with Variable Properties. <i>Current Nanoscience</i> , 2017 , 13,	1.4	6
67	Prediction of Thermal Conductivity of Carbon Nanotube-EG Nanofluid Using Experimental Data by ANN. <i>Current Nanoscience</i> , 2017 , 13, 324-329	1.4	19
66	Mixed Convection Flow and Heat Transfer in an Up-Driven, Inclined, Square Enclosure Subjected to DWCNT-Water Nanofluid Containing Three Circular Heat Sources. <i>Current Nanoscience</i> , 2017 , 13, 311-323	1.4	28
65	Estimation of Heat Transfer Coefficient and Thermal Performance Factor of TiO ₂ -water Nanofluid Using Different Thermal Conductivity Models. <i>Current Nanoscience</i> , 2017 , 13,	1.4	4
64	Numerical Study of Mixed Convection Inside a D-shaped Cavity with Mg(OH) ₂ -EG Nanofluids. <i>Current Nanoscience</i> , 2017 , 13,	1.4	3
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62	Natural convection in a trapezoidal enclosure filled with carbon nanotube/EG/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 76-82	4.9	106
61	Estimation of thermal conductivity of CNTs-water in low temperature by artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 376-381	5.8	90
60	Study on thermal conductivity of water-based nanofluids with hybrid suspensions of CNTs/Al ₂ O ₃ nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 124, 455-460	4.1	136
59	An experimental study and new correlations of viscosity of ethylene glycol-water based nanofluid at various temperatures and different solid concentrations. <i>Heat Transfer Research</i> , 2016 ,	3.9	2
58	An experimental study on viscosity of alumina-engine oil: Effects of temperature and nanoparticles concentration. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 202-208	5.8	127
57	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	4.1	92
56	Estimation of thermal conductivity of Al ₂ O ₃ /water (40%)/ethylene glycol (60%) by artificial neural network and correlation using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 74, 125-128	5.8	132
55	An experimental study on thermophysical properties and heat transfer characteristics of low volume concentrations of Ag-water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 74, 91-97	5.8	52
54	Designing an artificial neural network to predict dynamic viscosity of aqueous nanofluid of TiO ₂ using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 75, 192-196	5.8	173
53	Effects of temperature and concentration on rheological behavior of MWCNTs/SiO ₂ (20B0)-SAE40 hybrid nano-lubricant. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 133-138	5.8	177
52	The optimization of viscosity and thermal conductivity in hybrid nanofluids prepared with magnetic nanocomposite of nanodiamond cobalt-oxide (ND-Co ₃ O ₄) using NSGA-II and RSM. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 79, 128-134	5.8	73
51	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	4.1	91

50	Turbulent forced convection heat transfer and thermophysical properties of MgO/water nanofluid with consideration of different nanoparticles diameter, an empirical study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 119, 1205-1213	4.1	117
49	Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 656-666	4.9	84
48	Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 783-791	4.9	85
47	Magneto-natural convection in square cavities with a source-sink pair on different walls. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2015 , 47, 21-32	0.4	76
46	An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 67, 173-175	5.8	104
45	Designing an artificial neural network to predict thermal conductivity and dynamic viscosity of ferromagnetic nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 68, 50-57	5.8	154
44	Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 418-426	4.9	88
43	Applicability of artificial neural network and nonlinear regression to predict thermal conductivity modeling of Al ₂ O ₃ /water nanofluids using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 66, 246-249	5.8	147
42	Applications of feedforward multilayer perceptron artificial neural networks and empirical correlation for prediction of thermal conductivity of Mg(OH) ₂ /EG using experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 67, 46-50	5.8	110
41	Thermal conductivity of Cu/TiO ₂ /water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 66, 100-104	5.8	280
40	Experimental determination of thermal conductivity and dynamic viscosity of Ag/MgO/water hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 66, 189-195	5.8	355
39	Experimental investigation and development of new correlations for thermal conductivity of CuO/EG/water nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 65, 47-51	5.8	96
38	Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 1273-1278	4.1	115
37	Experimental investigation of thermal conductivity of CNTs-Al ₂ O ₃ /water: A statistical approach. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 69, 29-33	5.8	97
36	Experimental study on thermal conductivity of DWCNT-ZnO/water-EG nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 68, 248-251	5.8	144
35	Effect of Magnetic Field on Free Convection in Inclined Cylindrical Annulus Containing Molten Potassium. <i>International Journal of Applied Mechanics</i> , 2015 , 07, 1550052	2.4	81
34	Mixed convection in a lid-driven cavity with an inside hot obstacle filled by an Al ₂ O ₃ /water nanofluid. <i>Journal of Applied Mechanics and Technical Physics</i> , 2015 , 56, 443-453	0.6	38
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29	Simulation of copper/water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 49, 89-99	2.4	209
28	MIXED CONVECTION FLUID FLOW AND HEAT TRANSFER OF THE Al ₂ O ₃ -WATER NANOFLUID WITH VARIABLE PROPERTIES IN A CAVITY WITH AN INSIDE QUADRILATERAL OBSTACLE. <i>Heat Transfer Research</i> , 2015 , 46, 465-482	3.9	6
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26	Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al ₂ O ₃ nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 88, 728-734	4.9	155
25	Thermal conductivity and viscosity of Mg(OH) ₂ -ethylene glycol nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 120, 1145-1149	4.1	96
24	Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 63, 35-40	5.8	116
23	Mixed convection of copper/water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014 , 402, 150-168	3.3	235
22	Heat transfer characteristics and pressure drop of COOH-functionalized DWCNTs/water nanofluid in turbulent flow at low concentrations. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 73, 186-194	4.9	144
21	Experimental studies on the convective heat transfer performance and thermophysical properties of MgO/water nanofluid under turbulent flow. <i>Experimental Thermal and Fluid Science</i> , 2014 , 52, 68-78	3	180
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19	Efficiency of ferromagnetic nanoparticles suspended in ethylene glycol for applications in energy devices: Effects of particle size, temperature, and concentration. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 58, 138-146	5.8	85
18	Thermophysical properties, heat transfer and pressure drop of COOH-functionalized multi walled carbon nanotubes/water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 58, 176-183	5.8	186
17	Thermal conductivity of Al ₂ O ₃ /water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 117, 675-681	4.1	135
16	Thermal conductivity modeling of MgO/EG nanofluids using experimental data and artificial neural network. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 118, 287-294	4.1	190
15	MIXED CONVECTION FLOW AND HEAT TRANSFER IN A VENTILATED INCLINED CAVITY CONTAINING HOT OBSTACLES SUBJECTED TO A NANOFLUID. <i>Heat Transfer Research</i> , 2014 , 45, 309-338	3.9	33

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11	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. <i>Heat Transfer Research</i> , 2014 , 45, 563-578	3.9	54
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7	Combined Convection in a Lid-Driven Cavity with an Inside Obstacle Subjected to Al ₂ O ₃ -Water Nanofluid: Effect of Solid Volume Fraction and Nanofluid Variable Properties. <i>Acta Physica Polonica A</i> , 2013 , 124, 665-672	0.6	23
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